
























Name of Work : Bank Of Baroda -Baroda Apex Academy Building at Law Garden, Ahmedabad- Supply of Lighting Fixture work							
Item No.	Specifications and Intent image from our side - BOB		Bidder's Supply Item Details				Details of Deviation and comments if required.
	Item description - BOB	Intent Images for Reference.	Make	Model No	Specifications	Image of Proposed fixture	
Part-1 : Electrical work							
Light Fixtures							
1	Supply of LED light fixtures with all necessary internal wiring.						
1.1	<p>Supply of IP protected LED Batten Surface Mounted luminaire with system power [18 to 24W ± 5%], Available in Cool White Color temperature (5700K ± 350K) is made of a construction with rated voltage of 140-270V, power factor > 0.95, THD < 10%, IP20 protection, Inbuilt surge protection of 2 KV, has mis wiring, Over voltage, Short circuit, Reverse Polarity protection, . The luminaire lumen output of 2600 ± 5% LM & system efficacy of >110 LPW , CRI of 80. The LEDs used have a life of 50000 burning hrs Lumen maintenance as per L70.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						
1.2	<p>Supply of IP protected LED Batten Surface Mounted luminaire with system power [30 to 36W ± 5%], Available in Cool White Color temperature (5700K ± 350K) is made of a construction with rated voltage of 140-270V, power factor > 0.95, THD < 10%, IP20 protection, Inbuilt surge protection of 2 KV, has mis wiring, Over voltage, Short circuit, Reverse Polarity protection, . The luminaire lumen output of 3000-4000 LM & system efficacy of >110LPW , CRI of 80. The LEDs used have a life of 50000 burning hrs Lumen maintenance as per L70.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						
1.3	<p>Supply of indoor Linear Surface / Suspended / Pendant Direct type LED luminaire having approx [52mm ± 5%] wide aluminium extruded profile finishes with white powder coated,snap fit high translucent frosted PMMA diffuser, [24W ± 5%] and having CCT option - (5700K ± 350K/ 4000 ± 250K/ 3000 ± 250K) , CRI of 80 , Fixture should have pf >0.95,THD<10%,surge of 2.5kv, The luminaire lumen output of 2600 ± 5% LM & system efficacy of >110LPW , CRI of 80. The LEDs used have a life of 50000 burning hrs Lumen maintenance as per L70.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						
1.4	<p>Supply of indoor Linear Surface / Suspended / Pendant mounted Direct-Indirect light having approx [52mm ± 5%] wide aluminium extruded profile finishes with white powder coated,snap fit high translucent frosted PMMA diffuser, [30W ± 5%] and having CCT 4000K / 5700k, CRI of 80 , voltage of 240V . Fixture should have pf >0.95,THD<10% and 110lumens/watt,surge of 2.5kv, .System efficacy of >80 LPW , CRI of 80.The luminaire lumen output of 3300 LM. The LEDs used have a life of 50000 burning hrs Lumen maintenance as per L70.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						



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1.5	<p>Supply of Indoor Surface mounted cylindrical type diffused downlight LED Luminaire with System power [18W ± 5%] with dimension of approx [177 ± 20 mm] available in cool white color temperature,made up of Die cast white finish powder coated housing, white/Black finish powder coated ring, with PC Diffuser, clear glass cover, rated voltage (V) of 240VAC, P.F. ≥ 0.95, THD < 15 %, protection of IP20 with beam angle of 36°. The luminaire lumen output > 1980LM & System efficacy of >80LPW , CRI of 80. The LEDs used have a life of 50000 burning hrs Lumen maintenance as per L70.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						
1.6	<p>Supply of Indoor Surface Mounted round downlight LED luminaire system power: [15 W ± 5%], available in cool white color temperature,made up of Die cast white finish powder coated housing, white/Black finish powder coated ring, polycarbonate cover, rated voltage (V) of 240VAC, P.F. ≥ 0.95, THD < 10 %, protection of IP20 with beam angle of 36°.The luminaire lumen output > 1500LM & system efficacy of >100 LPW , CRI of 80.The LEDs used have a life of 50000 burning hrs & Lumen maintenance as per L70</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						
1.7	<p>Supply of Indoor Deep recessed downlight LED Luminaire with System power [18W ± 5%] , comprises of Die cast in thermally conductive material housing finished in white powder coated, high translucent frosted diffuser for glare free lighting, having CCT 5700k, voltage of 240VAC ,approx cut out of 210mm,pf >0.95, THD<15%, internal surge protection of 2.5KV and IP 20. The luminaire lumen output > 1980LM & system efficacy of >80 LPW , CRI of 80.The LEDs used have a life of 50000 burning hrs & Lumen maintenance as per L70.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						
1.8	<p>Supply of Indoor Deep recessed downlight LED Luminaire with System power [24W ± 5%], ultra slim panel with anti flicker technology, & robust metal housing for superior long lasting life of 20,000 burning hours, surge protection of 2.5kv with approx cut out size of 11 x 11 inch.The luminaire lumen output 2600 ± 5% & system efficacy of >80 LPW , CRI of 80. The LEDs used have a life of 50000 burning hrs & Lumen maintenance as per L70.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						
1.9	<p>Supply of Indoor LED Recessed mounted precise Downlight type Luminaire with (optional tilted) System power [10W ± 5%] , comprises of Die cast in thermally conductive material housing finished in white powder coated, high translucent frosted diffuser for glare free lighting, having CCT 5700k, voltage of 240VAC,cut out of 155mm,pf >0.95, THD<10%, internal surge protection of 2.5KV and IP 20.The luminaire lumen output 1100 LM & system efficacy of >110LPW,CRI of 80. The LEDs used have a life of 50000 burning hrs & Lumen maintenance as per L70.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						



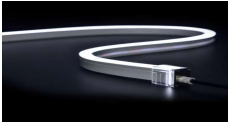
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1.10	Supply of Indoor LED Recessed Downlight Prismatic type Luminaire with System power [18W ± 5%], comprises of Die cast in thermally conductive material housing finished in white powder coated, high translucent frosted diffuser for glare free lighting, having CCT 5700k, voltage of 240VAC ,approx cut out of 210mm, pf >0.95, THD<10%, internal surge protection of 2.5KV and IP 20.The luminaire lumen output > 1980 LM & system efficacy of >110LPW , CRI of 80.The LEDs used have a life of 50000 burning hrs & Lumen maintenance as per L70. Sample to be approved by client / architect / consultant before order placement.						
1.11	Supply of Indoor Architectural Downlight Recess mounted LED Luminaire with System power [9W ± 5%], comprises of Die cast in thermally conductive material housing finished in white powder coated, high translucent frosted diffuser for glare free lighting, having CCT 5700k, voltage of 240VAC, approx cut out of 155mm, pf >0.95, THD<10%, internal surge protection of 2.5KV and IP 20.The luminaire lumen output 990 lm & system efficacy of >110LPW , CRI of 80. The LEDs used have a life of 50000 burning hrs & Lumen maintenance as per L70. Sample to be approved by client / architect / consultant before order placement.						
1.12	Supply of Indoor LED strip light 15W/mtr ,24VDC, 240 LED, 5 Meter Reel including driver, Available in Warm White/Neutral White/Cool White color temperature, Resin coated for additional protection and Thermo conductive adhesive 3M for safe installation on flat surface. High efficiency electronic remote Constant Voltage 12/24VDC driver with rated input voltage of 240V, Power factor > 0.95 and THD < 10%, , should have mis wiring, Over voltage & Short circuit protection. The System Efficacy > 70 LPW & Delivered lumens of 1050 Lm . CRI 80, IP20 Protection . The LEDs used have a life of 50000 burning hrs & Lumen maintenance as per L70. Sample to be approved by client / architect / consultant before order placement.						
1.13	Supply of Indoor Architectural Pendant mounted LED Hexagon shaped Downlight Luminaire with System power [30W ± 5%], with mounting arrangement of suspended type comprises of CRCA housing powder coated in white, LED clusters are assembled in the body & special high translucent frosted diffuser is used for uniform glare-free light distribution, dimension of approx [595mm x 515mm x 75mm ± 10%] ,CRI of 80, voltage 80, mains current of 0.140 - 0.165A, approx weight of 4.05kgs,system efficacy of >90lm/watt, pf >0.9, THD<10%, protection of IP20.The luminaire lumen output > 2700 Lm, CRI of 80. The LEDs used have a life of 50000 burning hrs & Lumen maintenance as per L70. Sample to be approved by client / architect / consultant before order placement.						
1.14	Supply of Indoor Architectural Pendant mounted LED decorative hanging light/light fixture with all necessary suspension accessories complete in all respect for at site with 20,000 basic rate. - (Matrial base rate with all required other expense) Sample to be approved by client / architect / consultant before order placement.						


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1.15	Supply of COB based wall mounted luminaire Frost DOWN , system power: 12W,comprises of Aluminium heatsink finished in black powder coated, ring should be with PC white, clear plastic PC diffuser, plastic optical grade PC reflector with CRI>80, beam angle of 36degree, weight should be approx of 0.270Kg, CRI -80, CCT should be 3000-4000k , p.f>0.9, THD-10%,lumens >100/watt, surge of 4kv,IP 20. Sample to be approved by client / architect / consultant before order placement.						
1.16	Supply of Indoor LED Surface mounted standalone track light Luminaire with (optional tilted) System power [Approx 10W] , Available CCT in (5000K ± 350K/ 4000 ± 250K/ 3000 ± 250K), made of a Pressure die cast aluminium (PDC) housing for rapid thermal healing & Powder coated by Corrosion resistant Nano coating technology. The fixture is provided with reflector optics to have a Precise light distribution. Comes with narrow/medium/wide° Beam angle options. SDCM 5 LED, High efficiency electronic driver with rated voltage of 140-270V, Power factor > 0.95 and THD < 15%, Inbuilt surge protection of 2 to 4 KV, should have mis wiring, Over voltage & Short circuit protection. Driver should be maintenance-friendly with easy access to driver from top of the Luminaire placed remotely. The luminaire lumen output > 1000 LM & system efficacy of >80LPW , CRI of 80. The LEDs used have a life of 50000 burning hrs & Lumen maintenance as per L70. Sample to be approved by client / architect / consultant before order placement.						
1.17	Supply of Decorative LED Night light fixture concealed mounting as per suggested by Architect & Site incharge. L70 @50,000 operating hours. Sample to be approved by client / architect / consultant before order placement.						



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1.18	Supply of 10W Mirror LED light fixture , 1000 Lumen having approx 2ft length, system power, luminous flux of luminaire 110 lm/w or better. L70 @50,000 operating hours. Sample to be approved by client / architect / consultant before order placement.						
1.19	Supply of IP65 rated LED Step light with die cast housing powder coated in grey color, clear polycarbonate color,0.5 sqmm Teflon coated, & frame suitable for outdoor application in approx 3 w,CCT of 3000k,CRI 70,pf>0.9 4kv surge protection with fixture. Sample to be approved by client / architect / consultant before order placement.						
1.20	Integral, SMD 2x2 LED, IP 20, 30 to 36W LED Surface/recess mounted fixture with System efficacy of more than 100lm/W and system lumen output 3600lm. Luminaire shall have satin finished translucence (HET) diffuser for Uniform illumination and wider light distribution. Luminaire shall use SMD type LED. LED Driver shall be Multistage, Isolated type, APFC, Constant Current topology driver with proper heat sink for heat dissipation suitable to operate in input voltage range of 140V to 270V (nominal rated voltage – 240V) with 2KV internal surge protection, Power factor greater than 0.95 and total harmonic distortion (THD) of less than 10% should be integral to the luminaire. Complying to SELV < 60V DC standards. Compliance to Indian Standards of IS10322 Part 5 / Sect 1:1967; 16105 : 2012; IS 16106 : 2012; IS 15885 (Part2/Sec13) : 2012; IS 16108 : 2012. Also available in 4000K Sample to be approved by client / architect / consultant before order placement.						
Landscape							
1.21	Supply of Outdoor Architectural LED Post top Luminaire with System wattage 35W -45W System efficacy>70LPW (±5%), CCT 3000k , Circular shape design illumination with diffused optics suitable for 100% DLOR, Housing made of PDC Aluminium alloy ensuring optimum thermal management, Diffuser made of Polycarbonate material. IP65 Ingress Protection with Impact Resistance ≥ IK07. , Driver should be Integral type Encapsulated high efficiency isolated constant current driver with inbuilt Surge protection of 3KV+10KV additional SPD, Mis wiring protection, Over voltage protection, & Short circuit protection, Life 50,000 B Hrs@L70, CRI>70, THD<10% , PF>0.95, Operating voltage 90-305V AC, Operating Tem 0 to +50°C, Operating Humidity 10-90%. Powder coating should be corrosion resistant Nano technology powder coating in Silver Grey/Black/Terracotta colour (As per approval from Architect/Client). Fixture should have 5 Years warranty for complete system. Suitable for Pole height of 3Mt. Fixture should be supplied including 3Mtr Aluminium post top pole with same finish as that of Luminaire . Sample to be approved by client / architect / consultant before order placement.						


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1.22	<p>Supply of Outdoor Architectural LED Bollard Luminaire with System wattage 10-15W System efficacy>60LPW ($\pm 5\%$), CCT 3000k , illumination with diffused optics suitable for 100% DLOR for optimum light usage, Housing made of PDC Aluminium alloy ensuring optimum thermal management, Diffuser made of Polycarbonate material. IP66 Ingress Protection with Impact Resistance \geq IK07. Driver should be Integral type Encapsulated high efficiency isolated constant current driver with protection Class 1. Inbuilt Surge protection of 3KV+10KV additional SPD, Mis wiring protection, Over voltage protection, & Short circuit protection, Life 50,000 B Hrs@L70, CRI>70, THD<10% , PF>0.95, Operating voltage 90-305V AC, Operating Tem -10 to + 45°C, Operating Humidity 10-90% . Powder coating should be corrosion resistant Nano technology powder coating in Silver Grey/Black/Terracotta colour (As per approval from Architect/Client). Fixture should have 5 Years warranty for complete system. Suitable for mounting on RCC base.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						
1.23	<p>Supply of Outdoor Architectural LED Tree Uplighter with Spike, System wattage not more than 10-15W System efficacy>60LPW ($\pm 5\%$), CCT 3000k, Cylindrical design with Housing made of PDC Aluminium alloy ensuring optimum thermal management, Clear Heat Resistance Toughened Glass cover with Secondary with reflector for effective with medium° Beam angle, Hinge design with precision dia feature for 90° tilt angle adjustment, IP65 Ingress Protection with high Impact Resistance . Fixture should be fitted with PDC Aluminium Spike for sturdy placement on ground.. Driver should be Integral type Encapsulated high efficiency isolated constant current driver with inbuilt Surge protection of 3KV+10KV additional SPD, Mis wiring protection, Over voltage protection, & Short circuit protection, Life 50,000 B Hrs@L70, CRI>70, THD<10% , PF>0.95, Operating voltage 90-305V AC, Operating Tem 0 to +50°C, Operating Humidity 10-90%. Powder coating should be corrosion resistant Nano technology powder coating in Silver Grey/Black/Terracotta colour (As per approval from Architect/Client). Fixture should have 5 Years warranty for complete system. Compete with Base for Surface mounting/Placement on Ground.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						

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Façade Lighting							
1.24	<p>Façade Lighting Supply of Outdoor Architectural LED RGBW Flood Light Luminaire with System wattage 50 to 55W (±5%) System efficacy>40LPW (±5%), CCT RGBW, Compatible with DMX512, Inbuilt Decoder, Separate Optical & Driver compartment , Single piece Housing made of PDC Aluminium alloy with inbuilt heat sinks at back ensuring optimum thermal management, Clear PMMA Lens covered with clear Polycarbonate cover for 30-40deg Beam angle. IP66 Ingress Protection with Impact Resistance ≥ IK07. Manufacturer emblem/logo embossed into the Aluminium housing to allow identification & traceability till the life of the fixture. Driver should be Integral type high efficiency isolated constant voltage driver with Protection Class 1. 10KV additional SPD, Mis wiring protection, Over voltage protection, & Short circuit protection, Life 50,000 B Hrs@L70, CRI>70, THD<10% , PF>0.95, Operating voltage 90-305V AC, Operating Tem 0 to +50°C, . Housing colour of fixture should be Nano technology powder coating of Silver Grey/Black/Terracotta colour (As per approval from Architect/Client). Fixture should have 5 Years warranty for complete system. Suitable for Cradle mounting.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						
1.25	<p>Supply of Outdoor Architectural LED RGBW Flood Light Luminaire with System wattage 50 to 55W System efficacy>40LPW (±5%), CCT RGBW, Compatible with DMX512, Inbuilt Decoder, Separate Optical & Driver compartment , Single piece Housing made of PDC Aluminium alloy with inbuilt heat sinks at back ensuring optimum thermal management, Clear PMMA Lens covered with clear Polycarbonate cover for 60deg Beam angle. IP66 Ingress Protection with Impact Resistance ≥ IK05. Manufacturer emblem/logo embossed into the Aluminium housing to allow identification & traceability till the life of the fixture. . Driver should be Integral type high efficiency isolated constant voltage driver with Protection Class 1. Inbuilt Surge protection of 2KV+10KV additional SPD, Mis wiring protection, Over voltage protection, & Short circuit protection, Life 50,000 B Hrs@L70, CRI>70, THD<10% , PF>0.95, Operating voltage 90-305V AC, Operating Tem 0 to +50°C, . Housing colour of fixture should be Nano technology powder coating of Silver Grey/Black/Terracotta colour (As per approval from Architect/Client). Fixture should have 5 Years warranty for complete system. Suitable for Cradle mounting.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						

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1.26	<p>Supply of Outdoor Architectural LED RGBW Flood Light Luminaire with System wattage 120 to 150W System Lumen output≥ 5500Lm, CCT RGBW, Compatible with DMX512, Inbuilt Decoder, Separate Optical & Driver compartment , Single piece Housing made of PDC Aluminium alloy with inbuilt extended heat sinks ensuring optimum thermal management, Injection Molded PC Lens ensuring 30-40deg Beam angle covered with UV Stabilized Heat Resistant Toughened Glass. IP66 Ingress Protection with Impact Resistance ≥ IK08. Manufacturer emblem/logo embossed into the Aluminium housing to allow identification & traceability till the life of the fixture. , & Driver compartment. High efficiency isolated driver with Protection Class 1. 3kv+10KV additional SPD, Mis wiring protection, Over voltage protection, & Short circuit protection, Life 50,000 B Hrs@L70, CRI>70, THD<10% , PF>0.95, Operating voltage 90-305V AC, Operating Tem 0 to +50°C, . Housing colour of fixture should be Nano technology powder coating of Silver Grey/Black/Terracotta colour (As per approval from Architect/Client). Fixture should be equipped with Wired with IP67 Connector, Fixture should have 5 Years warranty for complete system. Suitable for Cradle mounting.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						
1.27	<p>Supply of Outdoor Architectural LED Linear Wall washer RGBW with System wattage 24 to 30W System efficacy>40LPW (±5%), CCT RGBW, Compatible with DMX512, Inbuilt Decoder, Separate IP Rated Box for Driver and Decoder Placement , Single piece Housing made of Extruded Aluminium with Aluminium End caps ensuring optimum thermal management, Heat Resistant toughened Glass with Secondary PMMA lens for Elliptical 60deg Beam angle. IP66 Ingress Protection with Impact Resistance ≥ IK07. Fixture approx Length 1000 to1200mm, Remote type Driver should be high efficiency isolated constant voltage driver with Protection Class 1. Inbuilt Surge protection of 3KV+10KV additional SPD, Mis wiring protection, Over voltage protection, & Short circuit protection, Life 50,000 B Hrs@L70, CRI>70, THD<10% , PF>0.95, Operating voltage 90-305V AC, Operating Tem 0 to +50°C, Fixture should have 5 Years warranty for complete system. Suitable for mounting on surface with brackets.hould be supplied completely including IP Box with Compatible Driver & Decoders.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						
1.28	<p>Supply of Outdoor Architectural Flexible RGB LED IP67 Strip with Spotless & Uniform illumination. System wattage 10W/Mtr. with approx 5 mtr. maximum single length, System efficacy>40LPW (±5%), CCT RGB , Compatible with DMX512, UV Resistant Silicon construction with Open diffused optics. Strip should be supplied with Aluminium Channel & Required Accessories. IP67 Ingress Protection Driver should be Non- Integral type high efficiency 24V DC driver with Protection Class 1. Life 50,000 B Hrs@L70, CRI>80, THD<20% , Operating ambient Temp -20°C to +45°C, Operating Humidity 10-90%. Luminaire should have 5 Years warranty, Suitable for Surface mounting using Aluminium channel and fixing accessories. Technical Data Sheett. Driver and Decoder should be placed in IP Rated Box. End Caps should be solder less or Silicon End caps maintaining IP67 rating. should be supplied completely including IP Box with Compatible Driver & Decoders.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						

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1.29	<p>Supply of Outdoor Architectural RGBW LED Projector Circular Flood light with System wattage 40 to 50W , System efficacy>40LPW (±5%), CCT RGBW , Compatible for DMX512 with Inbuilt Decoder, Housing made of PDC Aluminium alloy ensuring optimum thermal management, UV Stabilized Heat Resistance clear Toughened Glass cover with Secondary PMMA Lens for effective 10 to 25 Deg Beam angle, IP66 Ingress Protection with Impact Resistance ≥ IK07. Fixture Driver should be Integral type high efficiency isolated constant Voltage driver with inbuilt Surge protection of 3KV+10KV Additional SPD, Mis wiring protection, Over voltage protection, & Short circuit protection, Life 50,000 B Hrs@L70, CRI>70, THD<10% , PF>0.95, Operating voltage 90-305V AC, Operating Tem 0 to +50°C, Powder coating should be corrosion resistant Nano technology powder coating in Silver Grey/Black/Terracotta colour (As per approval from Architect/Client). Fixture should have 5 Years warranty for complete system. Compete with Base for Surface mounting/Placement.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						

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1.30	<p>Supply of Outdoor Architectural LED Projector with System wattage 15 to 30W System efficacy>50LPW (±5%), CCT 3000k, Housing made of PDC Aluminium alloy ensuring optimum thermal management, Clear Heat Resistance Toughened Glass cover with Secondary PMMA Lens for effective 10 to 25 Deg Beam angle, angle adjustment, IP66 Ingress Protection with Impact Resistance ≥ IK07. Manufacturer emblem/logo embossed into the Aluminium housing to allow identification & traceability till the life of the fixture. F Driver should be Integral type Encapsulated high efficiency isolated constant current driver with inbuilt Surge protection of 3KV, Mis wiring protection, Over voltage protection, & Short circuit protection, Life 50,000 B Hrs@L70, CRI>70, THD<10% , PF>0.95, Operating voltage 90-305V AC, Operating Tem 0 to +50°C, Operating Humidity 10-90%. powder coating should be corrosion resistant Nano technology powder coating in Silver Grey/Black/Terracotta colour (As per approval from Architect/Client). Fixture should have 5 Years warranty for complete system. Compete with Base for Surface mounting/Placement.</p> <p>Sample to be approved by client / architect / consultant before order placement.</p>						
1.31	<p>Supply of Outdoor Architectural LED Up Down light with System wattage 10 to 20W, System efficacy>90LPW (±5%), CCT 3000k, Minimalistic Rectangular shape Design with Housing made of PDC Aluminium alloy ensuring optimum thermal management, Clear optics Secondary PMMA Lens for effective 15 Deg Beam angle for both up and down, Black film coating on cover to avoid Light Spillover and Glare control, IP66 Ingress Protection with Impact Resistance ≥ IK08. Fixture . Driver should be Integral type Encapsulated high efficiency isolated constant current driver with 3KVA surge protection, Mis wiring protection, Over voltage protection, & Short circuit protection, Life 50,000 B Hrs@L70, CRI>70, THD<10% , PF>0.95, Operating voltage 90-305V AC, Operating Tem 0 to +50°C, Operating Humidity 10-90%. Powder coating should be corrosion resistant Nano technology powder coating in Silver Grey/Black/Terracotta colour (As per approval from Architect/Client). Fixture should have 5 Years warranty for complete system. Compete with Base for Surface mounting/Placement on Ground.</p> <p>Sample to be approved by client / architect / consultant before</p>						
1.32	<p>Supply and commissioning of DMX Controller with Necessary Splitters, control cables and connects as required by the intent design along with require programming & smooth running, with hand held device complete in all respect. DB to control all facade lights shall be provided at Basement floor.</p>						
1.33	<p>Supply of Weather proof & water Proof IP 67 waterproof polycarbonate enclosure with knockouts, Molded with metric knock-outs for easy removal for cable entry. Tough polycarbonate material for superior impact resistance. Suitable to be used as terminal junction box, control box, wireless network devices and so on. Approx size would be 200x100x75mm</p> <p>Sample to be approved by client / architect / consultant before</p>						

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1.34	Supply of Indoor Surface Mounted round downlight LED luminaire system power: [7 to 10W ± 5%], available in cool Black color temperature,made up of Die cast white finish powder coated housing, white/Black finish powder coated ring, polycarbonate cover, rated voltage (V) of 240VAC, P.F. ≥ 0.95, THD < 10 %, protection of IP20 with beam angle of 36°.The luminaire lumen output > 1500LM & system efficacy of >100 LPW , CRI of 80.The LEDs used have a life of 50000 burning hrs & Lumen maintenance as per L70 Sample to be approved by client / architect / consultant before order placement.						

Note :- All make of Indoor and outdoor lighting will have to same, no changes in make will be accepted for indoor and outdoor lights.