

GREATER NOIDA INDUSTRIAL DEVELOPMENT AUTHORITY

PLOT NO.-1, SECTOR KP-IV, GREATER NOIDA

Ref: Proj/WC-E&M-2/2024/ 959

Dated: 03/02/2024

Name of work: S/I/T/C for Creative Illumination at City Park, Greater Noida.

QUOTATION NOTICE

Sealed quotations are hereby invited by the undersigned for the work of Concept Proposal for Creative Illumination at City Park, Greater Noida. The quotations shall be received at Plot no.-01, Sector KP-IV, Greater Noida upto 3.00 P.M. on dated----- and shall be opened on the same day at 3.30 P.M.

S.No.	Description	UNIT	QTY.	Rate	Amount
1.00	Part-A (CITY PARK- Main Entrance Gate & the Entrance				
1.01	SITC Of outdoor image projection fixture with precise framing system : Light Source : 150W LED module, Zoom, Display: on board control, 0-25HZ strobe, Rotating Gobo: 1 gobo wheel, bi-directional rotation, Shutting system: manual precise frame shutting, Focus : manual focus and zoom, RDM , DMX512 , IP66.	Nos.	10		
2.00	Part-B (Vibrant Illumination of the Trees & shrubs)				
2.01	Supply, Installation, Testing and Commissioning of LED monocolour (equal nos. of Blue/Magenta/ Amber/ Red/ Green) Floodlight Luminaire for Facade lighting with die cast aluminium housing, with powder coating of wattage 70W-75W. The beam angle of the fixture shall be 60-80 deg. The luminaire shall have high optical efficiency PMMA/PC lenses. Luminaire shall be complete with driver and capable of operating at line voltage without any separate power supply from 120 to 270 V AC, 50 Hz, power factor > 0.9. High power LED's shall be SMD type and fixture shall have system efficacy at System level (Not Chip Level) >=40 LPW, Life of fixture (Including Driver): 50K Hrs. @ L70 Lumen maintenance at 35 °C Ambient Temperature. minimum Internal Surge Protection 4KV, 20 kV external surge protector, must be having minimum IP66 & IK 07 Impact rating & IEC Classification Class I, RoHS. Fixture shall be suitable to operate at ambient temperature range of 0°C to +45°C. Luminaire performance & Safety :IEC 60598, IS 10322-5, IS 161-03/05/06/07, Surge : IEC 61000-4-5, EMC : EN 55015 IES, LM 79, & TTC certificates should be provided from NABL accredited lab. ROHS compliant, BIS Certification for Luminaires & Drivers 5 Years Warranty. The work includes all the installation & mounting accessories, as approved by the department.	Nos.	160		
2.02	Supply, Installation, Testing and Commissioning of LED monocolour (equal nos. of Blue/Magenta/ Amber/ Red/ Green) Floodlight Luminaire for Facade lighting with die cast aluminium housing, with powder coating of wattage 150W. The beam angle of the fixture shall be 60-80 deg. The luminaire shall have high optical efficiency PMMA/PC lenses. Luminaire shall be complete with driver and capable of operating at line voltage without any separate power supply from 120 to 270 V AC, 50 Hz, power factor > 0.9. High power LED's shall be SMD type and fixture shall have system efficacy at System level (Not Chip Level) >=40 LPW, Life of fixture (Including Driver): 50K Hrs. @ L70 Lumen maintenance at 35 °C Ambient Temperature. minimum Internal Surge Protection 4KV, 20 kV external surge protector, must be having minimum IP66 & IK 07 Impact rating & IEC Classification Class I, RoHS. Fixture shall be suitable to operate at ambient temperature range of 0°C to +45°C. Luminaire performance & Safety :IEC 60598, IS 10322-5, IS 161-03/05/06/07, Surge : IEC 61000-4-5, EMC : EN 55015 IES, LM 79, & TTC certificates should be provided from NABL accredited lab. ROHS compliant, BIS Certification for Luminaires & Drivers 5 Years Warranty. The work includes all the installation & mounting accessories, as approved by the department.	Nos.	140		

2.03	Supply of LED luminaire with system power 15-20W, Available in color temperature 3000K and beam angle of 30 degree, made of Pressure die cast Aluminium [PDC] housing for better Thermal Dissipation. Powder coated by Corrosion resistant Nano coating technology. Integral encapsulated high efficiency electronic driver having a Aluminium extrusion construction with rated voltage of 140-270V, power factor > 0.95, THD < 5%, IP66 protection, Inbuilt surge protection of 5 KV and upgraded with integrated IP67 protected SPD of 10KV/5KA surge protection with all necessary safet protection like mis wiring, Over voltage, Short circuit, Reverse Polarity protection. Luminaire has a Ingress protection of IP66 and Impact Resistance of IK08. The luminaire lumen output >75LPW & system efficacy of >1500 Lm , CRI of 70 . The LEDs used have a life of 50000 burning hrs Lumen maintenance as per L70. Luminaire performance & Safety :IEC 60598, IS 10322-5, IS 161-03/05/06/07, Surge : IEC 61000-4-5, EMC : EN 55015 IES, LM 79, LM 80, & TTC certificates will be provided from NABL accredited lab.Certification: CE Certified, ROHS compliant, BIS Certification for Luminaires & Drivers	Nos.	40		
3.00	Part-C (Pathway lighting using sound-enabled log bollards.)				
3.01	SITC of Outdoor featured customised 1000mm high sound-enabled bollard light with FRP housing in the shape of wooden log embedded with light. Luminaire .Wattage 2530W, Well designed thermal management system with aluminium heat sink Operating Voltage of AC 165-270V 50HZ with universal elctronic driver, Light colour should be iny range of 2700-4000K, Mean rated service life L70(tq 25 °C) = 50,000 h.Ingress protection rating (DIN EN 60529): IP65,The luminaire should be provided with Electrical safety class I. Operating Temperature 0 deg to +50 deg The work also includes all the accessories , connections in main LT panel box and of all wires, cable, earthing and MCCB/MCBs as per Engineer-in-Charge	Nos.	84		
3.02	SITC of Outdoor featured customised 500mm high sound-enabled bollard light with FRP housing in the shape of wooden log embedded with light. Luminaire Wattage 15-20W, Well designed thermal management system with aluminium heat sink Operating Voltage of AC 165-270V 50HZ with universal elctronic driver, Light colour should be iny range of 2700-4000K, Mean rated service life L70(tq 25 °C) = 50,000 h.Ingress protection rating (DIN EN 60529): IP65,The luminaire should be provided with Electrical safety class I. Operating Temperature 0 deg to +50 degThe work also includes all the accessories , connections in main LT panel box and of all wires, cable, earthing and MCCB/MCBs as per Engineer-in-Charge	Nos.	60		
4.00	Part-D (Gazebo & Arc Bridge Lighting)				
4.01	SITC of Outdoor featured customised decorative light with FRP housing in the shape of cut-work bamboo column embedded with light. Luminaire Wattage 40-60W, Well designed thermal management system with aluminium heat sink Operating Voltage of AC 165-270V 50HZ with universal elctronic driver, Light colour should be iny range of 2700-4000K, Mean rated service life L70(tq 25 °C) = 50,000 h.Ingress protection rating (DIN EN 60529): IP65,The luminaire should be provided with Electrical safety class I. Operating Temperature 0 deg to +50 degThe work also includes all the accessories , connections in main LT panel box and of all wires, cable, earthing and MCCB/MCBs as per Engineer-in-Charge.	Nos.	40		
4.02	SITC of Silicon neon flex (LED) with silicon & transparent & semi transparent option. The strip should be available with waterprooof connetors (Male & female ends push in material). The strip should be / WW as per the design with min. wattage from 9-12 watt per meter. IP rating IP 68. BIS certified	Mtr.	300		
5.00	PART - E (Children's Play Area)				

5.01	<p>MULTI ACTIVITY PLAYS SYSTEM , EQUIPMENT SIZE: 22 X 22 X 11 ft approx. MINIMUM RECOMMENDED AREA: 28 X 28 X 13 ft. CHILDREN CAPACITY: 25children, MATERIAL SPECIFICATION: Frame structure GI/MS pipeE: Class-B and conforming to IS-1239. OD - 114,50,32,25 Hot Rolled Soft Steel Stripes or forged. LLDPE PLASTIC PARTS: UV Stabilized. Narrow MWD, Excellent Process ability, Good Impact Strength & Stiffness, Excellent Internal & External Surface Finish. ACRYLIC: Acrylic's clarity, light weight, impact resistance, and weather resistance. HDPE PARTS: UVResistant. Anti Static. Good Electrical Properties. PLATFORM & LADDER: CR Sheet 1.6 mm thickness, high strength and improved formability. ALUMINIUM CLAMP: high fatigue strength, excellent castability, very good corrosion resistance, self-piercing riveting and clinching. PP CAPS: caps are manufactured from high quality polymers. GI HARDWARE: All galvanizing Hardware are carried out by the hot dip process, in accordance with Specification IS 2629. VINYLE STICKER: High Strength Acrylic Adhesive 300 is designed to be compatible with a variety of print methods and end use applications. MIG WELDING: MIG welding is versatile and can be used with a wide variety of metals and alloys, corrosion resistance, soft surface to prevent injuries. POWDER COATING: The finish is more flexible than traditional paint, and allows for a small amount of bending and flexing as parts vibrate and move. It is also resistant to scratching, flaking, and corrosion. BUBBLE WRAP: Thickness of 6mm. Bubble wrap is lightweight, water resistant, reusable nons cratching. And, Commonly used for packing fragile items. FOUNDATION AND INSTALLATION: The equipment is required to be fixed in open ground which may include excavation of earth and suitable concrete foundation to bear the load of the equipment with the children. Besides adjoining area has to be filled with sand to prevent the children from getting hurt. The filling of the sand should be minimum of 6 inches. Work has to be completed, as per direction of the engineer in-charge.</p>	Nos	1	
5.02	<p>FRP PLAYGROUND SLIDES EQUIPMENT SIZE: 6X20X7ft approx, MATERIAL SPECIFICATION: Frame structure GI/MS pipeE: Class-B and conforming to IS 1239. O114,50,32,25 Hot Rolled Soft Steel Stripes or forged. LLDPE PLASTIC PARTS: UV Stabilized. Narrow MWD, Excellent Process ability, Good Impact Strength & Stiffness, Excellen Internal & External Surface Finish. ACRYLIC: Acrylic's clarity, light weight, impact resistance, and weather resistance. HDPE PARTS: UVResistant. Anti Static. Good Electrical Properties. PLATFORM & LADDER: CR Sheet 1.6 mm thickness, high strength and improved formability. ALUMINIUM CLAMP: high fatigue strength, excellent castability, very good corrosion resistance, self-piercing riveting and clinching. PP CAPS: caps are manufactured from high quality polymers. GI HARDWARE: All galvanizing Hardware are carried out by the hot dip process, in accordance with Specification IS 2629. VINYLE STICKER: High Strength Acrylic Adhesive 300 is designed to be compatible with a variety of print methods and end use applications. MIG WELDING: MIG welding is versatile and can be used with a wide variety of metals and alloys, corrosion resistance, soft surface to prevent injuries. POWDER COATING: The finish is more flexible than traditional paint, and allows for a small amount of bending and flexing as parts vibrate and move. It is also resistant to scratching, flaking, and corrosion. BUBBLE WRAP: Thickness of 6mm. Bubble wrap is lightweight, water resistant, reusable nons cratching. And, Commonly used for packing fragile items. FOUNDATION AND INSTALLATION: The equipment is required to be fixed in open ground which may include excavation of earth and suitable concrete foundation to bear the load of the equipment with the children. Besides adjoining area has to be filled with sand to prevent the children from getting hurt. The filling of the sand should be minimum of 6 inches. Work has to be completed, as per direction of the engineer incharge.</p>	Nos.	2	

5.03	<p>Providing & Fixing of TWO SEATER ARC SWING C.P.A. Specification is as under: Product Area :- 3.0Mtr x 2.5Mtr; Safe Play Area :-4.0Mtr x 3.5Mtr. FRAME: 1. 80NB Pipe bended & welded together to form a strong frame, to withstand both the pitching, rolling & yawing moment, with a flange & ISA. 80NB pipe is hot dip galvanized pipe of height 2900mm conforming to IS 1239 with GI thickness of 60µ. The ISA & tor rods are fixed to the lower end of the pipe so as to make strong foundation. 2. 50NB Top Pipe with two Arc Swing Flanges welded at both its ends. Pipe can withstanding tensional stress created due to swinging motion. These 50NB top pipe(1 nos. for two seater Arc Swing) are hot dip galvanized pipe of length 1830mm conforming to IS 1239 with GI thickness of 60. CLAMP & FITTING: Special swing clamps made up of two parts are joined together with M6 Allen bolts along with S-Hook & a specially designed swing pinThe S-Hook is specially designed to house a bearing for smooth & noiseless swinging. The clamps are made from injection moulded Nylon-6 plastic. Seat: The swing seat should be manufactured using material LLDPE (Linear Low Density Polyethylene) of Grade - 36RA045 (Food Grade Plastic) with density 963 kg/m. The material is added with anti-oxidant & UV for protecting the product from colour fading. The overall product obtain is a seamless to ensure perfect blend of uniform thickness & durability. The seat is affixed on 8mm rubber coated G.I. chain. FOUNDATION AND INSTALLATION: The equipment is required to be fixed in open ground which may include excavation of earth and suitable concrete foundation to bear the load of the equipment with the children. Besides adjoining area has to be filled with sand to prevent the children from getting hurt. The filling of the sand should be minimum of 6 inches. Work has to be completed, as per direction of the engineer in-charge.</p>	Nos.	2	
5.04	<p>Providing & Fixing Marry Go Round (Animal MGR) Product area : 1500 mm dia Safe play area : 2500 mm dia GENERIC Scope : A popular fixture at fairs / playground among children Product structure: Railings – platform – platform support frame – triangular frame – bearing assembly and center support pipes. Ideal for children: Of age group 5 to 12 years. Children allowed at a time : 5 Railings :- Which are designed for standard grip requirement Railing made up of :-20 NB galvanized pipe conforming to IS 1239 / latest with GI thickness of 60µ Railing frame – for safety against entrapment of head neck: - Three number frames are fixed to FRP platform reinforced structure. Platform design and size :- Metal platform dia 1500 mm with aluminum chequered sheet for anti skid surface Sheet thickness :- 16 SWG (1.626 mm) Platform support made up of :- ISA conforming to IS 808/latest 40 mm X 40 mm X 5mm and 25 mm X 25 mm X 5 mm including ISF conforming to IS 1730/latest 130 mm X 50 mm X 10 mm and 65 mm X 50 mm X 5 mm all weldedtogether to a 25 NB bend pipe to form a structural frame Triangular frame made up of :- C- channel 75 mm X 40 mm X 5 mm welded together to form a triangular frame with plates welded to the three vertices for mounting the FRP platform C-Channel :- Conforming to IS 1173/latest and GI coated for rust free operation Bearing assembly with two bearings- Ball bearing used for smooth rolling action and taper roller bearing take vertical truss due to rolling moment and applied weight Base plate:- Centre support pipe is welled with a 150 mm X 150 mm base plate at bottom for fixing the foundation angles ISA and circular plate on top with OD 200 mm for assembling the bearing. All metal pipes: -Should be hot dipped galvanized pipes conforming to IS 1239(part 1) with GIS thickness of 60 microns Light duty ('A' class) series of pipes. Nut and Bolts : Allen Bolt Powder coating :- Done with pure polyester raw material Range of dry film thickness :- Maintained wit in the range of 50 to 70 micron.</p>	Nos.	1	

5.05	FRP PLAYGROUND BALANCING BEAM EQUIPMENT, MATERIAL SPECIFICATION: FRP PLANKS/ FIBERGLASS/ PLASTIC/ PVC: Class-B and conforming to IS-1239. OD - 114,50,32,25 Hot Rolled Soft Steel Stripes or forged. LLDPE PLASTIC PARTS: UV Stabilized. Narrow MWD, Excellent Process ability, Good Impact Strength & Stiffness, Excellent Internal & External Surface Finish. ACRYLIC: Acrylic's clarity, light weight, impact resistance, and weather resistance. HDPE PARTS: UVResistant. Anti Static. Good Electrical Properties. POWDER COATING: The finish is more flexible than traditional paint, and allows for a small amount of bending and flexing as parts vibrate and move. It is also resistant to scratching, flaking, and corrosion. BUBBLE WRAP: Thickness of 6mm. Bubble wrap is lightweight, water resistant, reusable nons cratching. And, Commonly used for packing fragile items. FOUNDATION AND INSTALLATION: The equipment is required to be fixed in open ground which may include excavation of earth and suitable concrete foundation to bear the load of the equipment with the children. Besides adjoining area has to be filled with sand to prevent the children from getting hurt. The filling of the sand should be minimum of 6 inches. Work has to be completed, as per direction of the engineer in-charge.	Nos.	4		
5.06	FRP PLAYGROUND CLIMBER EQUIPMENT, MATERIAL SPECIFICATION: POWDER COATED GI: Class-B and conforming to IS-1239. OD - 114,50,32,25 Hot Rolled Soft Steel Stripes or forged. LLDPE PLASTIC PARTS: UV Stabilized. Narrow MWD, Excellent Process ability, Good Impact Strength & Stiffness, Excellent Internal & External Surface Finish. ACRYLIC: Acrylic's clarity, light weight, impact resistance, and weather resistance. HDPE PARTS: UVResistant. Anti Static. Good Electrical Properties. POWDER COATING: The finish is more flexible than traditional paint, and allows for a small amount of bending and flexing as parts vibrate and move. It is also resistant to scratching, flaking, and corrosion. BUBBLE WRAP: Thickness of 6mm. Bubble wrap is lightweight, water resistant, reusable nons cratching. And, Commonly used for packing fragile items. FOUNDATION AND INSTALLATION: The equipment is required to be fixed in open ground which may include excavation of earth and suitable concrete foundation to bear the load of the equipment with the children. Besides adjoining area has to be filled with sand to prevent the children from getting hurt. The filling of the sand should be minimum of 6 inches. Work has to be completed, as per direction of the engineer in-charge	Nos.	2		
5.07	Providing & fixing Custom outdoor morden fiberglass/ GFRC animal garden bench seat	Nos.	4		
6.00	Part-F (Miscellaneous Electrical Work)				
6.01	2 Universe (1024 Channels) DMX controller with following features & specifications:This is built on the latest generation of lighting controllers and combines all recent innovations. Designed for DIN rail mounting, this is the perfect solution for midrange lighting installations. Delivered with 1024 DMX channels.The lighting levels, color and effects can be programmed from a PC, Mac, Android, iPad or iPhone using software from our website.It's Key Features includes • DMX Stand Alone controller • Up to 2 x DMX512 universes (1024 channels) • RDM compatible • USB & Ethernet connectivity for programming/ control • Stand Alone mode with 99 scenes • Play scenes in 5 areas / zones • microSD slot • 8+3 dry contact trigger ports • Test scenes rotary switch • Windows/Mac software to set dynamic colors/effects • iPhone/iPad/Android remote and programming apps• cloud compatibility.Technical Data Input Power 12v DC (8-15V range), Output Protocol DMX512 , Programmability PC, Mac, Android, iOS, ConnectionsUSB-C Ethernet Screw terminals for DMX / RDM Universes, 8+3 Contact ports, 12v power-in Battery holder (CR2032), microSD slot Memory SD Card ,Environment IP20 / to 0 to +50°C, Buttons Rotary switch ,OS Requirements Mac OS X 10.8-10.14 Windows 7/8/10 Standards CE, ETL, Low voltage, EMC, and RoHS Approve Makes - Nicolaudie Dina /equivalent of Pharos/ENTTEC.	Nos.	1		

6.02	Supply, installation, testing & commissioning of 6port DMX Splitter(Din rail Mountable)with following features & specifications:DMX signal splitter enables branching in complex DMX installations. The combination of a large number of receivers in series can be troublesome, therefore it was possible to create branching DMX tracks using a splitter.With Splitter, it possible to split the DMX input signal into 6 independent branches. The individual outputs are galvanically isolated from input and between each other. The output signals are appropriately reinforces, which guarantees correct operation of the entire installation. DMX Splitter is manufactured in a housing adapted for mounting on standard DIN 35mm rails. Specification - Power Supply-DC12- 24V,DMX Channels--512,Nos. of DMX Inout-1 & output-6,Optical Isolation of DMX Lines,Built-in Terminator,breakdown voltage of the isolation>1000V,current consumption-<500mA	Nos.	2		
6.03	Supplying , Installation, testing and commissioning of front and back openable, double door outdoor feeder pillar fabricated out of M.S. sheet of thickness not less than 2 mm having inside door with cut out for operating accessories mounted after opening front and slanting top suitably over hang on all sides, ventilator louvers with wire mesh, earthing bus & stud base mounting angle frame of size 45 mm x 45 mm x 5 mm thick, and concrete / brick foundation cable entry knock out, locking arrangement, rubber gasket suitable for providing & fixing the following switch gear and accessories and 400 Amp TPN aluminium Busbar, including connection etc. as required.(Essential Main Feeder -1) A) Incomer :- i) 100 AMP, 4 pole, 36 KA, MCCB (Thermal - Magnetic Release) i/c Spreader Terminal & Rotary Handle - 1 No. ii) Multi Function meter (V/A/P.F./KWH/KVA) with - 3No.CT , SP MCB & LED indicator iii) Surge Protection device -Type 1+2 B) Outgoing :- i) 400 Amp FP Aluminium Bus Bar - 1set ii) 160 AMP, 4 pole, 25 KA, MCCB (Thermal - Magnetic Release) Spreader Terminal & Rotary Handle - 1Nos. iii) 100 AMP, 4 pole, 18 KA, MCCB (Thermal - Magnetic Release) Spreader Terminal & Rotary Handle - 1Nos. iv) 40 Amp F.P. MCB - 2 Nos. v) 32 Amp F.P. MCB - 5 Nos. vi) 6-32 Amp D.P. MCB - 10 Nos. vii) Timer for street light- 2 Nos. viii) Danger notice plate - 1 set Automation Accessories for Lights (30KW) ix) I/O terminal box 100A- 12 Nos. x) Surge Protection device -20 KA xi) Multi Funtion Meter xii) Rotary Switch xiii) smart gateway xiv) Servo Stabilizer xv) Tamper Switch xvi) Power contactor 120 A	Nos.	1		
6.04	Installation, programming & Commissioning of the Gobo projection illumination system of entrance pathway with automation system along with the mounting structure with anti-theft mechanism. This shall include all the necessary accessories required for connections & installations (jumper cables/ junctions boxes/ lugs/metal cages/ connectors etc.)	Job	1		
Total					

Note:-

1. Please quote your rates inclusive of labour, T&P and material.
2. The quotation shall be received on email id: smwcm2@gnida.in or by hand in Work Circle-E&M-2 personally
3. GST and Labour cess will be paid extra

Copy to:-

1. G.M. (Electrical)
2. D.G.M (Finance)
3. System Department for uploading on GNIDA websites.
4. Manager / Asstt. Manager (E&M-2)
5. Notice Board

(Gurvinder Singh)
Sr. Manager (E&M-2)

Sr. Manager (E&M-2)