

Tender Inviting Authority: The Registrar, Nalanda University

Name of Work: Light fixtures for permanent Campus of Of NU Rajgir. under Package 6A of Phase 1 Construction

Contract No:

Name of the Bidder/ Bidding Firm / Company :	
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PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimated Rate in Rs. P	TOTAL AMOUNT With Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	6	53	55
1	Light fixtures for permanent Campus of Of NU Rajgir. under Package 6A of Phase 1 Construction					
2	Supply & Testing of approx 14 to 17W COB Surface/Suspended Mounted Cylinder downlight with CCT of 3000±500k, Housing Aluminum Diecast, shall have minium CRI of 80 & PF minimum 0.95 with clear glass diffuser & DALI dimmable driver. LED shall be from Approved Make only. % THD shall not exceed 10% .surge protection minimum 2.5kv. Long life 50,000@L70. Height of the Fixture shall be minimum 120mm. Lumen package shall be 80 L/Watts minimum.	2511.240	Each	3806.88	9559989.33	INR Ninety Five Lakh Fifty Nine Thousand Nine Hundred & Eighty Nine and Paise Thirty Three Only
3	Supply & Testing of approx 22 to 27W COB Surface/Suspended Mounted Cylinder downlight with CCT of 3000±500k, Housing Aluminum Diecast, shall have minium CRI of 80 & PF minimum 0.95 with clear glass diffuser & DALI dimmable driver. LED shall be from Approved Make only. % THD shall not exceed 10% .surge protection minimum 2.5kv. Long life 50,000@L70. Height of the Fixture shall be minimum 120mm. Lumen package shall be 80 L/Watts minimum.	2343.960	Each	4706.69	11032293.09	INR One Crore Ten Lakh Thirty Two Thousand Two Hundred & Ninety Three and Paise Nine Only
4	Supply & Testing of approx 36 to 45W COB Surface/Suspended Mounted Cylinder downlight with CCT of 3000±500k, Housing Aluminum Diecast, shall have minium CRI of 80 & PF minimum 0.95 with clear glass diffuser & DALI dimmable driver. LED shall be from Approved Make only. % THD shall not exceed 10% .surge protection minimum 2.5kv. Long life 50,000@L70. Height of the Fixture shall be minimum 120mm. Lumen package shall be 80 L/Watts minimum.	2232.780	Each	6367.87	14218052.78	INR One Crore Forty Two Lakh Eighteen Thousand & Fifty Two and Paise Seventy Eight Only
5	Supply & Testing of approx 14 to 19W Surfaced CRCA housing with CCT 3000±500k, shall have minium CRI of 80 & PF minimum 0.95 with High quality PMMA diffuser with highly reflective light guiding plate for glare free & uniform light distribution Light Transmission diffuser & DALI dimmable driver. Operational range 200-270 VAC. LED shall be from Approved Make only. % THD shall not exceed 10% .surge protection minimum 2.5kv.Long life 50,000@L70 . Lumen package shall be 80 L/Watts minimum	627.300	Each	3460.80	2170959.84	INR Twenty One Lakh Seventy Thousand Nine Hundred & Fifty Nine and Paise Eighty Four Only
6	Supply & Testing of approx 22 to 28W Surfaced CRCA housing with CCT 3000±500k, shall have minium CRI of 80 & PF minimum 0.95 with High quality PMMA diffuser with highly reflective light guiding plate for glare free & uniform light distribution Light Transmission diffuser & DALI dimmable driver . Operational range 200-270 VAC. LED shall be from Approved Make only. % THD shall not exceed 10% .surge protection minimum 2.5kv.Long life 50,000@L70 . Lumen package shall be 80 L/Watts minimum	1469.820	Each	4571.72	6719605.49	INR Sixty Seven Lakh Nineteen Thousand Six Hundred & Five and Paise Forty Nine Only
7	Supply & Testing of approx 12 to 15W recessed panel light ,powder coated Aluminium housing with CCT 3000±500k, shall have minium CRI of 80 & PF minimum 0.95 with High quality PMMA diffuser with highly reflective light guiding plate for glare free & uniform light distribution Light Transmissiondiffuser. Operational range 200-270 VAC. LED shall be from Approved Make only. % THD shall not exceed 10% .surge protection minimum 2.5kv.Long life 50,000@L70 . Lumen package shall be 80 L/Watts minimum	948.600	Each	3096.72	2937548.59	INR Twenty Nine Lakh Thirty Seven Thousand Five Hundred & Forty Eight and Paise Fifty Nine Only
8	Supply & Testing of approx 18 to 21W recessed panel light ,powder coated Aluminium housing with CCT 3000±500k, shall have minium CRI of 80 & PF minimum 0.95 with High quality PMMA diffuser with highly reflective light guiding plate for glare free & uniform light distribution Light Transmissiondiffuser. Operational range 200-270 VAC. LED shall be from Approved Make only. % THD shall not exceed 10% .surge protection minimum 2.5kv. . Lumen package shall be 80 L/Watts minimum.	95.880	Each	3444.07	330217.43	INR Three Lakh Thirty Thousand Two Hundred & Seventeen and Paise Forty Three Only
9	Supply & Testing of 9 to 12W -2ft LED PC batten with high efficiency Led light source having CCT of 3000±500k with anti-glare diffuser into a conventional batten with PF minimum 0.95, Long life 50,000@L70 and surge protection minimum 2kv. The LED shall be from Approved Make only. Lumen package shall be 70 L/Watts minimum.	262.140	Each	272.87	71530.14	INR Seventy One Thousand Five Hundred & Thirty and Paise Fourteen Only

10	Supply & Testing of approx 20 to 30w surfaced/suspended liner light incl of all required mounting Kit ,powder coated Aluminium dia cast housing with CCT 3000±500k, shall have minium CRI of 80 & PF minimum 0.95 with High quality PMMA diffuser for glare free & uniform light distribution . LED shall be from Approved Make only. % THD shall not exceed 15% .surge protection minimum 2.5kv.Long life 50,000@L70 . Lumen package shall be 80 L/Watts minimum.	406.980	Each	922.88	375593.70	INR Three Lakh Seventy Five Thousand Five Hundred & Ninety Three and Paise Seventy Only
11	Supply & Testing of approx 35 to 40W surfaced liner light incl of all required mounting Kit & CCT 3000±500k, shall have minium CRI of 80 & PF minimum 0.95 with High quality PMMA diffuser for glare free & uniform light distribution .IP 65 protections and moisture proof. LED shall be from Approved Make only. % THD shall not exceed 15% .surge protection minimum 2.5kv.Long life 50,000@L70 . Lumen package shall be 80 L/Watts minimum.	410.040	Each	2884.00	1182555.36	INR Eleven Lakh Eighty Two Thousand Five Hundred & Fifty Five and Paise Thirty Six Only
12	Supply & Testing of approx 9 to 11W surfaced mounted wall light & CCT 5700±500k, shall have minium CRI of 80 & PF minimum 0.95 with epoxy white powder coated die cast aluminium housing with PC diffuser .IP 65 protections and moisture proof. LED shall be from Approved Make only. % THD shall not exceed 10% .surge protection minimum 2.5kv.Long life 50,000@L70 . Lumen package shall be 80 L/Watts minimum.	74.460	Each	1152.45	85811.43	INR Eighty Five Thousand Eight Hundred & Eleven and Paise Forty Three Only
13	Supply & Testing of Suspended approximate 28 to 40W UP-DOWN LED Lighting fixture with Transparent Light Guiding Plate (LGP)-with central downward LED module, ULOR – 50 & DLOR - 50 ,Dimmable & tuneble by RF remote. 3000±500K, CRI minimum 80 & PF minimum 0.95 with long life 50,000@L70 and minimum 2.5kv surge protection. The LED shall be from Approved Make only. Lumen package shall be 80 L/Watts minimum	65.280	Each	6344.80	414188.54	INR Four Lakh Fourteen Thousand One Hundred & Eighty Eight and Paise Fifty Four Only
14	Supply & Testing of Al. Die cast formed housing, powder coated black or white surface finish, round or square hollow fixture with PMMA diffuser. 3000±500K, Minimum wattage shall be 17w. Minimum size shall be 400x400mm or 400 dia. High efficient LEDs for uniform light distribution. PF minimum 0.95 with long life 50,000@ L 70 and minimum 2.5kv surge protection.. The LED shall be from Approved Make only. Lumen package shall be 80 L/Watts minimum.	65.280	Each	5594.96	365238.99	INR Three Lakh Sixty Five Thousand Two Hundred & Thirty Eight and Paise Ninety Nine Only
15	Supply & Testing of Outdoor recessed mounted step light of approx 6 to 9W with IP 65 and IK08 impact resistance with integrated high efficient LED. 3000±500K, PF minimum 0.9, with long life 50,000@L70 and minimum 2.5kv surge protection. surge protection minimum 2.5kv. The LED shall be from Approved Make only. Lumen package shall be 80 L/Watts minimum.	298.860	Each	1893.60	565921.30	INR Five Lakh Sixty Five Thousand Nine Hundred & Twenty One and Paise Thirty Only
16	Supply & Testing of outdoor 8 to 11W bollards light fixture-extruded aluminium housing with graphite grey finish with PMMA diffuser.clear bollard height 600 to 800mm.IP 65 rating and IK09 impact resistance with long life 50,000@L70 and surg protection minimum 2 kv.and PF minimum 0.9 requiried . The LED shall be from Approved Make only. 5700±500K	167.053	Each	4614.40	770849.36	INR Seven Lakh Seventy Thousand Eight Hundred & Forty Nine and Paise Thirty Six Only
17	Supply & Testing of outdoor post top 25 to 40W light fixture-Durable extruded aluminium housing extruded with PC diffuser on top.clear pole height 2.7 to 4mtr .IP 65 rating and IK09 impact resistance with long life 50,000@L70 and surg protection minimum 5kv.and PF minimum 0.9 requiried. The LED shall be from Approved Make only. Lumen package shall be 80 L/Watts minimum. This item shall include the Supply of required length to archive total height minimum of 2.7m, 139 mm outer uniform dia. GI light pole with medium class GI pipe with GI / zinc coating and two coats of paint / pu coats of approved shed complete with base plate as per requirement complete in all respect. This includes suitable bracket made from GI & in same finish of pole as required for the fixture. Junction box shall be in concealed manner. Adequate size cutout with opeanable hinged door should be provided on pole with necessary gasket to ensure water tight arrangement for pulling cables, supply & installation of mcbs, connectors, internal connecting flexible wire from JB to each fixture of 2 X 1.5 sq. mm + 1 X 1.5 sq. mm, spiral earthing using 6 SWG GI wire etc, complete in all respect as per requirement and instruction of engineer in charge. 5700±500	1817.526	Set	24225.60	44030657.87	INR Four Crore Forty Lakh Thirty Thousand Six Hundred & Fifty Seven and Paise Eighty Seven Only
18	Supply & Testing of LED Highbay fixture IP65 protected Die-Cast Aluminium housing, 60 Deg Beam angle for uniform distribution with proper PC lenses. LED shall having LM80 complied as per L70 standard LEDs minimum tested for 10,000 burning hours with 5000K CCT only. LED Make shall befrom approved make only. Maximum power consumption shall be not be exceed 140W and system lumens shall not be less than 18500. Driver shall be Multi stage Constant Current with voltage range of 150-270 AC. Output voltage of driver should be complied to Safety Extra Low Voltage norms not exceeding 60V DC only. . Driver Power factor shall be 0.95 and above and THD shall be less than 10%. 5700±500K.	120.360	Each	16150.40	1943862.14	INR Nineteen Lakh Forty Three Thousand Eight Hundred & Sixty Two and Paise Fourteen Only
19	Supply & Testing of LED FLOOD Light fixture IP65 and IK08 impact resistance protected Die-Cast Aluminium housing, 60 Deg Beam angle for uniform distribution with proper PC lenses. LED shall having LM80 complied as per L70 standard LEDs minimum tested for 10,000 burning hours with 5000±500K CCT only and surg protection minimum 5kv. The LED shall be from Approved Make only. Maximum power consumption shall be not be exceed 250W and system lumens shall not be less than 30,000. Driver shall be Multi stage Constant Current with voltage range of 150-270 AC. Output voltage of driver should be complied to Safety Extra Low Voltage norms not exceeding 60V DC. Driver Power factor shall be 0.95 and above and THD shall be less than 10%.	24.480	Each	23256.58	569321.08	INR Five Lakh Sixty Nine Thousand Three Hundred & Twenty One and Paise Eight Only
20	Supply & Testing of LED FLOOD Light fixture IP65 and IK08 impact resistance protected Die-Cast Aluminium housing, 60 Deg Beam angle for uniform distribution with proper PC lenses. LED shall having LM80 complied as per L70 standard LEDs minimum tested for 10,000 burning hours with 5000±500K CCT only and surg protection minimum 5kv. The LED shall be from Approved Make only. Maximum power consumption shall be not be exceed 415W and system lumens shall not be less than 47,500. Driver shall be Multi stage Constant Current with voltage range of 150-270 AC. Output voltage of driver should be complied to Safety Extra Low Voltage norms not exceeding 60V DC. Driver Power factor shall be 0.95 and above and THD shall be less than 10%.	24.480	Each	34608.00	847203.84	INR Eight Lakh Forty Seven Thousand Two Hundred & Three and Paise Eighty Four Only

21	<p>Supply & Testing of LED Street Light fixture IP66 protected Die-Cast Aluminium housing having uniform distribution with proper PC lenses. LED shall having LM80 complied as per L70 standard LEDs minimum tested for 10,000 burning hours with 5700±500K CCT only. The LED shall be from Approved Make only. Maximum power consumption shall be not be exceed 45W and system lumens shall not be less than 3000±500. Driver shall be Multi stage Constant Current with voltage range of 150-270 AC. Output voltage of driver should be complied to Safety Extra Low Voltage norms not exceeding 60V DC. Driver Power factor shall be 0.95 and above and THD shall be less than 10%. This item shall include the Supply of required length to archive total height minimum of 6m, 164 mm outer uniform dia. GI light pole with medium class GI pipe with GI / zinc coating and two coats of paint / pu coats of approved shed complete with base plate as per requirement complete in all respect. This includes suitable bracket made from GI & in same finish of pole as required for the fixture. Junction box shall be in concealed manner. Adequate size cutout with opeanable hinged door should be provided on pole with necessary gasket to ensure water tight arrangement for pulling cables, supply & installation of mcbs, connectors, internal connecting flexible wire from JB to each fixture of 2 X 1.5 sq. mm + 1 X 1.5 sq. mm, spiral earthing using 6 SWG GI wire etc, complete in all respect as per requirement and instruction of engineer in charge.</p>	960.840	Each	5191.20	4987912.61	INR Forty Nine Lakh Eighty Seven Thousand Nine Hundred & Twelve and Paise Sixty One Only
22	<p>Design of the system & equipments, Mannufacturing, Supply, Installation, Testing & Commissioning (EPC) of 30m High Mast System for Cricket Stadium as per below details Design, manufacturing, supply, of Hot dip galvanised, polygonal (Minimum 20 edges) high masts with fixed head frame suitable for mounting 24 nos. of 2kW metal halide flood light fixtures complete with all accessories as required. The height of the mast from base upto top of head frame shall be 30 mtrs. The mast has been designed considering base wind speed as per IS 875 Part-3. Supply of foundation bolts manufactured from special steel along with nuts, washers, anchor plate and common template. Supply, of external manrider unit for accessing the head frame. The unit shall be suitable for safe load carrying capacity of 300Kg with climb speed not exceeding 9m/min. Construction of shallow foundation with M25 grade concrete for the highmast considering the safe soil bearing capacity at site as 10 T/sqmt at 2.5 metre depth with all materials and labour. Supply of non-integral 2KW Metal halide Fixtures with ballast & 2KW lamp. Supply, of Low intensity LED type aviation obstruction luminaires to be mounted on high masts. Supplying, of High Mast Lighting Distribution Board (HMLDB), 14SWG CRCA sheet made outdoor type, pedestal mounted totally enclosed with IP55 degree of protection with canopy suitable for use on 415 Volts 3-phase, 4 wire, 50 Hz system having required fault capacity, housed with incoming and outgoing, Aluminium bus bars interconnection etc. with indication lamps, accessories etc. However, main power supply to each mast via cable will be provided by client to the location of high mast feeder pillar. Incomer: 1 No. 200A, 4P MCCB (30kA) with thermo magnetic releases and all required accessories. 1 Set phase indication lights (R, Y, B) Solid state type (LED) 1 No. Volt Meter with VSS & control fuses. 1 No. Ammeter with ASS & CT's. Set of push buttons for ON/OFF operations. Busbars: TP&N aluminium bus bars mounted on SMC supports. Outgoings: 4 Nos. 63A 4P MCCB (10kA) with thermo-magnetic releases. 4 Nos. 63A 4P POWER CONTACTOR with On time delay timer 30 nos. 20A DPMCB - for flood light control.</p>	4.000	Set	1436400.00	5745600.00	INR Fifty Seven Lakh Forty Five Thousand Six Hundred Only

23	Design of the system & equipments, Manufacturing, Supply, Installation, Testing & Commissioning (EPC) of 20m High Mast System for Area Lighting as per below details: Design, manufacturing, supply, of Hot dip galvanised, polygonal (Minimum 20 edges) 20 M high mast shaft in two section suitable for 50 m/sec wind speed as per IS:875 part-III along with head frame, luminaires carriage suitable for 12 nos Flood light luminaires in symmetrical arrangement and other accessories manufactured in factory. Data- 20 Mt High Mast , Top-150 mm ,Bottom-410 mm ,Section Thickness -3/4 , PCD-490 MM (8 Hole) Supply of raising lowering system comprising double drum winch, 6 mm diameter SS wire rope, trailing cable, connector, integral power tool motor, manual handle, junction box, lightning finial. (Wiring material from JB to individual luminaire & MCB in base compartment are not included and are a part of installation). Supply of foundation bolts manufactured from special steel along with nuts, washers, anchor plate and common template. Size- M30 x 8 nos, 850 MM long, Anchore & Template Plate PCD-490mm (8 Hole) Supply of Single Dome LED Aviation Light LED Fixtures - 12 Nos. Per High Mast Supply of 240W LED Flood Light for High Mast. Supply of outdoor stand mounted feeder pillar with 32A TPN MCB incomer, single dial time switch, 25A TP contactor for the automatic switching of luminaries, power tool control with 2 no 9 A contactors and raise lower push button, Incoming 35 sq. mm and outgoing 16 & 2.5 sq. mm terminals Construction of shallow foundation with M20 grade concrete for the highmast considering the safe soil bearing capacity at site as 10 T/sqmr at 2 metre depth with all materials and labour. Erection of the high mast with the help of suitable tools and plants, wiring of luminaires with all wiring materials like PVC insulated PVC sheathed flexible cable of suitable copper conductor cores of 1.5 sq. mm, lugs and all labour. Note - During Installation Hydra/Crane in Tenderer Scope Provision of GI pipe earthing for High mast with 2.5 M long 40 mm dia GI Pipe including connection to High mast earth terminal with 25 x 3 mm GI flats with all materials and labour. (2nos per mast required) Installation of feeder pillar with connection. Panel Stand grouting civil work includes in item-1 Supply & Laying of LT Cable from Source to each High mast Location & Shifting of material from Store to site with Vehicle shall be in scope of work. However, main power supply to each mast via cable will be provided by client to the location of high mast feeder pillar.	5.000	Set	784325.00	3921625.00	INR Thirty Nine Lakh Twenty One Thousand Six Hundred & Twenty Five Only
24	Supply & Testing of approx 8 to 12W Wall Mounted Decorative Fixture with CCT of 3000±500k, Housing Aluminum Diecast, sha	52.000	Each	1961.12	101978.24	INR One Lakh One Thousand Nine Hundred & Seventy Eight and Paise Twenty Four Only
25	Supply & Testing of approx 18 to 22W Wall Mounted Decorative Fixture with CCT of 3000±500k, Housing Aluminum Diecast, sh	118.000	Each	2884.00	340312.00	INR Three Lakh Forty Thousand Three Hundred & Twelve Only
26	Supply & Testing of approx 8 to 12W IP67 and IK09 impact resistance Ground Burial Symatrical Light Fixture with CCT of 3000±500k, Housing Aluminum Diecast, PF minimum 0.95 with toughen glass diffuser. LED shall be from Approved Make only. % THD shall not exceed 12% .surge protection minimum 2.5kv. Long life 50,000@L70. Lumen package shall be 80 l/Watts minimum	48.960	Each	6114.08	299345.36	INR Two Lakh Ninety Nine Thousand Three Hundred & Forty Five and Paise Thirty Six Only
27	Design of system architecture, Supply & Testing of External Smart RF Controller, Gateway complete system with all required hardware, software, GUI, control cabling etc for any kind of LED Street light Fixture having followings: Input Voltage 140 to 270 V Power Consumption not exceeding 2W Single Chennel Shall Measure Volage, Current, Power, PF, Burning Hours Inbuilt Surge Protection for 5 KV Ele Protection of Over Load & Short Circuit Galvenically Isolated for MV & LV Operating Conditions -2 to 70deg IP 65 Shall work on 2.4 GHz, IEEE 802.15.4 self forming, self healing, RF network, Zigbee protocol, 8.65 MHz, self forming, self healing, RF network, 6LowPAN Network Security 128 AES Encryption Suitable to mount inside the pole / fixture housing Self Powered from available 230 V in the street light pole 5 Year Subscription of all reated services for each fixture This shall incude supply, installation, terminations & testing of all required interconnection wires between field device to fixture / ballast & gateway to	2778.366	Per Fixture to be controlled	23648.80	65705021.86	INR Six Crore Fifty Seven Lakh Five Thousand & Twenty One and Paise Eighty Six Only
28	Design of System Architecture, Supply & Testing of DALI based lighting control system including required all misc accessories & supporting items. Components are given below. Supply & Testing of DIN Rail Infusion Controller. Ethernet enabled / Plug-and-play design / 5 nos of RS-232 ports / 2 nos of RS-485 ports / 120 low voltage stations / Clips on 35mm DIN rail (9 modules wide) / Built-in USB port / SD Memory Card /Extremely fast processor /Runs on upgradeable internal software. Should have in built access over internet for trouble	36.000	Each Set	102176.730	3678362.28	INR Thirty Six Lakh Seventy Eight Thousand Three Hundred & Sixty Two and Paise Twenty Eight Only
29	Supply & Testing of Power Supply 36V-3amp / DIN rail mount / Convection cooling (no fan) / Maximum station integration (120 wirelink and 60 ethernetbus stations).	72.000	Each Set	26643.390	1918324.08	INR Nineteen Lakh Eighteen Thousand Three Hundred & Twenty Four and Paise Eight Only
30	Supply & Testing of DMX Dali Gateway / Can be operated as a DMX transmitter and as a DMX receiver simultaneously / Clips on to a 35-mm DIN rail Max. DMX addresses: 512 / Dali : 64 Ballast.	36.000	Each Set	124169.15	4470089.40	INR Forty Four Lakh Seventy Thousand & Eighty Nine and Paise Forty Only
31	Supply & Testing of Station bus cable. Two conductors / Free topology / No polarity / Max 90pF/m and Diameter 1.3mm ²	11000.000	Rm	185.38	2039180.00	INR Twenty Lakh Thirty Nine Thousand One Hundred & Eighty Only
32	Supply of License for minimum 5 users for access through iPad /smart device for remote conrol	5.000	Each	2355.45	11777.25	INR Eleven Thousand Seven Hundred & Seventy Seven and Paise Twenty Five Only
Total in Figures					191410928.38	INR Nineteen Crore Fourteen Lakh Ten Thousand Nine Hundred & Twenty Eight and Paise Thirty Eight Only
Quoted Rate in Figures					0.00	INR Zero Only
Quoted Rate in Words					INR Zero Only	