

**BOQ : Interior Decoration & Furniture work : ELECTRICAL WORK of
CAMPUS AREA LIGHTING, ADMIN CAMPUS, RAJKOT, RAO for State Bank of India.**

INDICATIVE PRICE BID

Sr. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	NOTE : ALL CHARIS OR CHASES IN WALLS / COLUMNS / SLABS MADE BY THE ELECTRICAL CONTRACTOR FOR INSTALLATION OF CONDUITS / S.B. / BOXES ETC. THE FILLING OF THE SAME IS IN THE SCOPE OF THE ELECTRICAL CONTRACTOR INCLUDING ALL NECESSITY MATERIAL AND LABOUR.				
	PART - A ::: BRANCH				
A	INTERNAL WIRING : Phase wire must be Red colour for LDB, Yellow colour for PDB & Blue for ACDB, Neutral Wire of Black colour & Green Wire for Earthing. Color code must be maintained. Tagging from DB MCB and Switch board must be done.				
1	P and M point wiring in concealed in walls, furniture's & for above false ceiling, or on ceiling, on beams shall be fixed with saddles & spacers etc., with conduits taken in slab with 20 mm dia PVC Rigid conduits 1.5 mm thick ISI mark with 2 nos. of 1.5 sq. mm. phase & nutral & 1 nos. of 1.0 sq. mm. earthing with modular switch with company made flush metal box/surface PVC box etc. comp. with nec. main lines for switch board from LDB of mains of 2 nos. of 2.5 sq.mm wire and 1 no.of 1.0 sqmm pvc Insulated copper conductor wire FRLS type laying in with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark .These will be used with point wiring of light, fan, ex. fan, callbell points, etc { Max. 3 Switchboards in one circuit - One Sp MCB }.Phase wire must be Red colour, Nutral Wire must be Black color & Green Wire for Earthing. Color code must be maintained. Tagging from Lighting DB MCB and Switch board must be done.				
1.1	One 5A switch controlling one light / fan point.				
1.2	One switch controlling Two light points .	8	nos		
1.3	5A socket outlet with 5A switch (on common board) (1 FOR WATER COOLER).	2	nos		
B	LIGHTING FIXTURES :				
	(NOTE : ANY OF FIXTURES AND FITINGS SHALL BE RE-CONFIRMED WITH THE ARCHITECTS / CONSULANTS BEFOTE ORDERING THEM.				
2	Supply, installation, testing and commissioning (including supply and fixing flexible wires from holder to fixtures hardwares etc.) of.... - The LED lamps should be of same make as fixture make. - The marking & cutting of fixtures should be in ele. contractor's scope.. fixtures should be approved by bank's ele. engineer / ele. consultant / architect. from the given make list before installations. LM 79 & LM 80 test reports to be submitted. nichia / LUmileds / cree - LED should be used by manufacture. Lighting Luminaire of LED for Office single piece die cost aluminium M24 housing complete with driver unit, mirror optic and other accessories Lamps of about 100 lumen/W injection moulded PC diffusers with high brightness complete unit complying with international standard (LU49, LH801) - opertive on 190V - 270 V 50 Hz with Mini 3 years warranty complete with mounting stystem and lamp dully wired and tested Details as under.				
2.1	Supply and instalation of 1 x 18W led batten light fixture (T-5) with electronic driver and tube complete with necessary hardwares, etc and per watt lumens output must be above 120/watt and 90%lumems maintaiance for 90% of life with input voltage 90-270v ac 50hz operational without affecting the life, input mov.gtd protection in driver for above 270v protection. and 2 years waranty.LED Batten Comprises of Thermally conductive material. Pre-wired with high efficiency electronic driver. High translucent frosted diffuser gets glare free, smooth light distribution.	16	nos		

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2.2	SITC of Supplying and erecting LED street light /Floor light fittings with High power White LEDs wattage of 1 Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High Pressure die cast aluminium housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and polycarbonate optics/ lenses with company mark/name engraved or embossed 120 to 300 V, Power Factor more than 0.95, THD < 10 %, CCT 5000 K to 5700K, Uniformity ratio > 0.45. Luminaire efficiency> 85 lumens/watt. LED driver efficiency > 85 % CREE OSRAM / PHILIPS Lumileds / NICHIA / SEOUL/BridgeLux (U.S.A.) make LED used for luminaire. (Each fittings required LM-79 & LM-80 certificates) Street Light (IP-65) surge- 4KV 24 watts to 36 watts Cat-III. Make: Havells make ENDURA CITYLITE PLATINUM PLUS cat no. ENDCITYLITPLAT+SL35WLED75SASYBOPCWOSPD or equivalent in BAJAJ/ PHILLIPS/ WIPRO/ CROMPTON.	19	nos		
D	DISTRIBUTION BOARD AND PANELS :				
3	Supply, installing, testing and commissioning of metallic double door type distribution board with all necessary connection complete to be installed concealed in wall / surface mount complete to the satisfaction of the Engineer in charge. The DB should be of same make as MCB make.				
3.1	12 WAY SPN DB : (street light DB). - All MCBs must be C Type Characteristic. incoming : 25A FP MCB - 1 NO . outgoing : 6 A / 10 A SP MCB (6 nos) for street light feeders.	Nil	nos		
E	EARTHING SYSTEM:				
4	Providing and making Earthing Pit with all necessary material and making masonry kundli, watering arrangement etc complete as per ISI 3043-1987 (FOLLOWING ITEMS MAY OPERATE). Resistivity as per IEC/ IS. (3 years Manufacturer Warranty. Earthing Certificate Need to Attached). (At the Time of buried of earthing Photograph must be taken Without Photographic Proof Earthing Will be Rejected. Earthing Rod Photo Must be attached with Bill.). Earthing need to measure at Site and it should be less than 5 Ohm. If found more than 5 ohm than will be rejected. Earthing Pit Must be Provided for both Cu as well as GI earthpit.				
4.1	ECO SAFE environment friendly electrical grounding system with T-193- Hot Dip Galvanised, having 50mm dia. of outer pipe and 25 mm dia. of inner pipe and length of 3mtrs with 50kg Back Fill Compound as per UL 476, of Powerfill Eco friendly electrical grounding backfill compound and clamp (DB - PANEL) - G. I. -(Chemical GI Earthing) ERDA & NSIC approved, E link or ETP MAKE or ASHLOK MAKE. Any other make will not be consider. (DB - PANEL) .	1	nos		
5	Supply, laying and jointing of following wire / strip / earth cable on walls, ceiling etc. With necessary non rusting clamps, washers, nuts and bolts etc complete.				
5.1	8 SWG G.I. Wire with 20 mm dia. PVC rigid conduit duly cleated / concealed / burried in floor etc. complete for street light poles , ETC.	300	Rmt		
F	CABLES & CABLE TERMINATIONS:				
6	Supply, Lying, installation, testing and commissioning of following sizes of PVC insulated PVC sheathed copper / aluminum conductor armoured cable to be laying in existing cable trench or to be laid in existing pipes of with necessary clamps, spacers with cleating on wall ceiling etc. complete to the satisfaction of EIC. All types of cable excavation works should be in contractor's scope.(LENTH TO BE VERIFY AT SITE) with end termination of following PVC insulated armoured cables including supply and fixing of brass single compression type cable glands and crimping type aluminum / copper lugs suitable for terminations of armoured cables of following overall diameters. incl				

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6.1	3 C X 2.5 sq. mm. flexible PVC Insulated copper conductor cable laying in with 20 mm/25 mm dia flexible pipe. (from junction box to fixture).	95	mtr		
6.2	4 C x 2.5 sq. mm Cu. Conductor YWY cable. (Main DB to street light pole junction boxes.)	320	mtr		
6.3	4 C x 4.0 sq. mm Cu. Conductor YWY cable. (main feeder to street light DB) .	50	mtr		
G	MISCELLANEOUS ITEMS :				
7	Supply & installation of 15 feet streetlight poles with single arm bracket of 1.0 mtr length , pole junction box (IP 65) - connectors for incoming & outgoing , reqd rating of SP MCB in pole box, proper foundation of poles, etc. FOR 15 FEET. 15 feet Long, 70 mm Top X 130 mm bottom dia, 3 mm thickness with 200mmX200mmX12mm base plate, 4-M16 Bolts and 600mm long J-Bolt.Approx Pole weight 46 kg.	15	nos		
8	Supply & installation of 10 feet streetlight poles with single arm bracket of 0.5 mtr length , pole junction box (IP 65) - connectors for incoming & outgoing , reqd rating of SP MCB in pole box, proper foundation of poles, etc. FOR 10 FEET. 10 feet Long, 70 mm Top X 130 mm bottom dia.3 mm thickness with 200mmX200mmX12mm base plate, 4-M16 Bolts and 450mm long J-Bolt.Approx weight 29 kg.	5	nos		
	TOTAL - PART A :::				
	PERCENTAGE ABOVE OR BELOW OF TOTAL AMOUNT IF ANY :::				
	GRAND TOTAL :::				
1	ALL RATES SHOULD BE INCLUDE OF ALL TAXES EXCLUDING GST WHATEVER IS APPLICABLE.				
2	THE CONTRACTOR SHOULD DEPUTE ONE PERSON AT SITE FROM START OF WORK TO FINISH FOR GIVING TEMPORARY CONNECTIONS & ATTENDING PROBLEMS.				
3	THE CONTRACTOR SHOULD WORK ACCORDING TO THE FINAL LAYOUT.				
4	THE CONTRACTOR SHOULD SUBMIT & APPROVE MAKE LIST WITH ARCH/ BANK'S ENGINEER / ELE. CONSULTANT BEFORE WORKING & SUBMIT SIGNED COPY WITH FINAL BILL SUBMISSION.				
5	THE CONTRACTOR SHOULD CHECK ELE. APPROVED MAKE LIST BEFORE QUOTE.				
6	THE CONTRACTOR SHOULD SUBMIT BANK GUARANTEE OR WARRANTY OF FIXTURES - LED FOR MIN. 3 YEARS.				
7	CONTRACTOR SHOULD BE SUBMITTED THE CERTIFICATE OF WIRES THOSE USED FOR THE BRANCH FROM DULY SIGNED BY COMPANY AUTHORISED PERSON. - PER PROJECT BASIS.				
8	EARTH RESISTANCE SHOULD BE CHECKED & SUBMITTED THE REPORT WITH DULY SIGNED BY ELE. CONTRACOTR AT THE TIME OF BILL CHECKING.				
9	THE RATES QUOTED BY THE CONTRACTOR IN THE COLUMN WHERE QUANTITY & UNIT ARE NOT MENTIONED IN THE TENDER ARE NOT NECESSARY BE ACCEPTED , IF LATER THE SAME ARE TO BE FIXED ON SITE.				
10	THE CONTRACTOR SHOULD BE ADVISED NOT TO LAY ANY CONDUIT / CABLE MAIN LINES THROUGH THE CASH ROOM / LOCKER ROOM / RECORD ROOM FOR SECURITY SAFETY AUDITS.				
11	IF THE CONTRACTOR HAS NOT CARRIED OUT ELECTRICAL WORK AS PER STANDARD SPECIFICATION THEN CONTRACTOR IS LIABLE TO REMOVE AND REWORK AS PER STANDARD SPECIFICATION AND WHATEVER THE DAMAGE IN CONNECTION WITH CIVIL/ FURNITURE/ AC WORK WILL BE BEAR BY CONTRACTOR. IF CONTRACTOR WILL NOT DONE REWORK THEN WHATEVER BEEN THE COST FOR REWORK WILL BE DEDUCTED FROM CONTRACTOR'S BILL.				

APPROVED MAKE LIST OF EQUIPMENT AND ACCESSORIES

1	PVC rigid conduits & Accessories. : 1.5 mm thick (MMS) ISI and FIA approved - Precision / Vraj / Nihir / BLP / PFI / Astral / Polycab / Anchor make. (Only white coloured pipes FRLS type to be used.)
2	L.T. Cables :

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2	Havells / KEI / Polycab / R. R. Kable / Finolex.				
3	Wires (FRLS) :				
	Havells / KEI / Polycab / R. R. Kable / Finolex / Anchor.				
4	Main Distribution Boards :				
	MDS Legrand (Lexic) / Hager / Havalls / Schneider (Eazy 9) / C & S Wintrip / Siemens Bitaguard / ABB.				

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Sr. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
5	ELCB / RCCB / Miniature Circuit Breaker: MDS Legrand (Lexic) / Hager / Havells / Schneider (Eazy 9) / C & S Wintrip / Siemens Bitaguard / ABB.				
6	Switch gears : MDS Legrand (Lexic) / Hager / Havells / Schneider (Eazy 9) / C & S Wintrip / Siemens Bitaguard / ABB.				
7	Change Over Switch : HPL Socomac/ Havells / L & T / Hager.				
8.A	Domestic fittings : - All Switching Modular Accessories. : Schneider Livia/ Anchor Roma Plus / Crabtree Verona / Legrand Myris / ABB .				
8.B	Domestic fittings : - Holders / ceiling roses. : Anchor / ABB or equivalent approved make.				
8.C	Domestic fittings : - Adhesive Tape. : Bhor (Steel Grip) or approved .				
9	10 - 30 A Polycarbonate Socket & Top : MDS Legrand (Lexic) / Hager / Havells / Schneider (Eazy 9) / C & S Wintrip / Siemens Bitaguard / ABB.				
10	Telephone Wires / Cable : Finolex / R. R. Kable / Havells / L & T / Polycab.				
11	Telephone tag block : Krone make.				
12	Cable Lugs : Dowell / Lotus / Jainson / 3 D.				
13	Cable gland Single / Double Compression : HMI / Comet / 3D.				
14	Ammeter / Voltmeter : AE / HPL / MECO / Enercon make.				
15	Selector switches : L & T salzer / Kaycee / ABB make.				
16	Indicator lamps : LED type Teknic / Precifine / Binay / ABB.				
17	Connector strips : Wago / Elmex make.				
18	Lighting Fixtures : Wipro / Philips / GE / Crompton / Havells.				
19	Exhaust fan (Light duty) : Khaitan / Crompton / Havells.				
20	Ceiling Fan (5 star rated) :				

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Sr. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
20	Crompton (High Breeze Plus) / Havells / Orient (PSPO).				

21	Wall mounted Fan (5 star rated) :				
	ALMONARD tempest mark II or equivalent make. Wall fan with PVC body strictly rejected.				

22	Data Cable - I / O Unit :				
	D - Link / Digi Link.				

LIGHTING / FAN FIXTURES - SEE CAT NO. & SPECIFIED MAKE IN THE PRICE BID.

CONTRACTOR SHOULD USE ONLY ONE COMPANY FOR ALL SWITCHBOARDS / DBS.

CONTRACTOR SHOULD SUBMIT SIGNED COPY OF MAKE LIST BEFORE WORK STARTED.