



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, पुणे
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE

(An Autonomous Institution, Ministry of Human Resource Development, Govt. of India)

IISER Pune Campus, Dr. Homi Bhaba Road, Pune-411 008.

Ph. No 020 2590 8001 Fax 020 2588 7499 / 2589 8022

No: 54(2) /IISER/Pune/20-21/ **L15**

Dated 30 / 04 / 2021

NOTICE INVITING QUOTATION

Sealed quotations are hereby **INVITED** by the undersigned on behalf of the Director, IISER Pune for the work mentioned below up to **3.00 PM on 19/05/2021** from approved and eligible contractors registered with CPWD, Maharashtra State PWD, Railways, MES in appropriate category for electrical/Composite/(B&C) works for the work mentioned below. The quotations will be opened at 3.30 PM on the same day.

Name of work: - Providing electrical distribution and light arrangement to open theater at IISER Pune.

Issue to –

Name and address of the agency –


Executive Engineer,
IISER Pune

Terms and Conditions:

- 1) The applicant should be registered (**ANY ONE**) with CPWD in western region, Maharashtra State PWD, MES, Railways in appropriate category for electrical / composite /(B & C) works. The registration certificate should be valid till the last date of receipt of tender. Applicant should submit attested or notarized copies of the valid registration certificate along with quotation.
- 2) Time period for completion of work shall be **45 (Forty five)** days from the date of placing the work order by IISER Pune. The act of backing-out after quotation will debar such agencies for participating in future quotations of IISER PUNE. Bidder may e-mail queries on maintenance@iiserpune.ac.in or submit to IISER PUNE office in hard copy on all working days before a day of submission date of quotation.
- 3) Quotation can be obtained from IISER PUNE Engineering office at Main Building between 10 AM to 4 PM on all working days before date of submission. Applicant may quote by downloading quotation document from IISER PUNE website.
- 4) All agencies need to submit their quotation in hard copy in a sealed envelope to this office by suitable means on and before **3 PM on 19/05/2021**. Quotation received after the date & time specified above shall not be accepted. Any delays, postal delay etc. will not be entertained. Agency should quote for all the items in the in the BOQ. The bid shall be submitted in the original Bid document (as issued by the IISER, Pune) super scribing the name of work. Rates quoted in the words shall be treated as final for deciding L1 bidder.



- 5) Quotations will be opened on the same at **3.30 PM** in the presence of agency or their authorized representatives, if any. The offer of the agency should be commercially clear including acceptance of all terms and conditions of this Quotation by the agency. IISER Pune reserves the right to accept or reject the quotation/s without assigning any reasons.
- 6) Quotations submitted with any conditions shall be treated as 'Conditional Quotation' and shall be summarily be rejected by IISER PUNE.
- 7) Quoted rates should be inclusive of cost of all the materials, labour cost , GST , all taxes, octroi, duties, cost of sample and fees towards testing of materials in labs, royalties etc. complete. Nothing extra shall be paid separately.
- 8) All approved makes shall be as per list attached with this and as per CPWD and manufactures specifications. Agency should put-up technical data and obtain prior approval on makes of various materials of IISER PUNE before taking-up work.

The successful agency shall make his own arrangement for all Tools & tackles for work etc complete in view of completion of work. Electricity shall be provided free of cost to agency at one source, agency should make own arrangement to safely tap of power from source to work location.

No advance payment shall be made by IISER Pune.

Quoted rates should be including GST, TDS and other applicable taxes and cess will be deducted from the bills of the work as applicable.

- 9) Specification for the work to be carried out as per BOQ, latest CPWD specification, IS specifications, manufactured specification & as per instruction of IISER PUNE whenever specification CPWD/ IS specification are not available.
- 10) The contractor shall ensure that minimum wages should be paid to the labours and employees in accordance with labour laws.
- 11) L1 Agency to submit actual measurements and abstract sheet to IISER PUNE within 30 days from completion of work.



A. Kulkarni
Executive Engineer,
IISER Pune

Encl: - 1. Schedule of Quantity

2. Approved Make list for electrical

Sign & stamp of Agency-

APPROVED MAKELIST FOR ELECTRICAL

S.No.	Brief Description of Equipment / Material	Makes
1	L.V. Power & Control Cables	Polycab / Finolex / RPG / KEI
2	L.V. Circuit Breaker / MCCBs	Schneider/L&T/ABB/Siemens/ GE (Spectra / Record)/Schneider (COMPACT)/ L & T (O SINE)/ABB/MDS / Legrand
3	Instrument transformer / L.V. CTs / PTs - Resin cast	Kappa/Kalpa/Voltamp
4	Indicating Meters Analog	Meco/Rishab/AE/HPL/L&T/ABB/Schneider
5	Indicating Meters Digital	Meco/AE/
6	Panel Meters	Socomec/Conzerv/SECURE/HPL/Legrand/L&T/ABB/Schneider
7	Terminal Junction boxes / blocks / connectors	Elmex / Connectwel
8	Cable Lugs	Jhonson / Dowel
9	Cable glands	Dowells/Braso/ Hansal /Comet /Polycab/PEW
10	MCB Distribution Board	Legrand/Schneider /Siemens/ Havells/L&T
11	Miniature Circuit Breaker	Legrand/Schneider /Siemens/ Havells/L&T
12	ELCB / RCBO / RCCB	Legrand/Schneider /Siemens/ Havells/L&T
13	Earth Leakage Relay	MK/Legrand /Siemens/Schneider/L&T
14	Industrial plug & Industrial socket	Legrand /MK/Schneider/Havells/L&T
15	Modular Switches, Sockets, Plug etc	MK Honeywell Evo / Legrand Arteor / Legrand Myrius
16	Modular Switches, plates etc and accessories	MK Honeywell Evo / Legrand Arteor / Legrand Myrius
17	LED Indicating Lamp	GE/SCHNEIDER/ Teknik/L&T/ALTOS, (MULTIPLE LEDs)
18	PLC / Digital Load Monitor / Power monitor	Electrex/Allen Bradley/GE/Schneider/Conzerv
19	Digital Timers (On - OFF delay / day time / Astrological)	L& T/Minilec/ Siemens/ GE/ Schneider
20	TVSS	Emerson / ASCO /Schneider/ABB
21	LT cable jointing kit	Raychem / 3M/CCI



22	HT cable jointing kit	Raychem / 3M/CCI
23	HT cable termination kit	Raychem / 3M/CCI
24	Chemical Earthing	Erico/Nimbus/Ashlok
25	Cable trays	Storrax/ Skaber/Profab
26	Metallic raceways	Storrax/ Skaber/Profab
27	MV Switch Boards (LT panels)	Accusonic /Load Controls /Elins / Lotus Switchgear /Pace Switch gears/ Suvarna Electricals
28	PVC Insulated copper wire FRLS	Polycab/Finolex/RR/RPG
29	PVC Rigid conduits	Precision/DIAMOND/Modi
30	Surge protective device in MCB DBs	Legrand/Schneider /Siemens/ Havells/L&T
31	Ceiling fan/ wall mounted fan / Pedestal fan	Crompton / Havells / Bajaj / Usha / Philips
32	Exhaust fan	Crompton / Havells / Bajaj / Usha / Almonard/ Alstom
33	Panel Accessories / Terminal block	Dirak/Elmax/phoenix/Wago
34	M S Conduits	BEC/BI,
35	Ceiling rose / HOLDERS	Vinay / Anchor / Havells
36	PVC raceways / PVC DLP trucking	LEGRAND/Honeywell MK
37	Aluminium raceways	LEGRAND/ MK/Schneider
38	Light fitting, Flourscent CFL/GLs , (Indoor & outdoor type)	Philips / Wipro/ GE
39	LED Light fitting (Indoor and outdoor type)	Wipro/Asian/Syska /Philips
40	Telephone Cables	Delton/Finolex/ Polycab
41	Telephone Sockets	Anchor /MK / Legrand
42	Data Cable - CAT-6 / OFC cable	D-Link/Legrand/Polycab/ Amp
43	Full loaded patch panels	D link or RR
44	Data patch cords	D link or RR
45	Fire Alarm Control Panel	Notifier / Edward / Bosch / Cooper/ Siemens



46	Repeater Panel	Notifier / Edward / Bosch / Cooper/ Siemens
47	Addressable Smoke Detector	Notifier / Edward / Bosch / Cooper/ Siemens
48	Addressable Multi Sensor Detector	Notifier / Edward / Bosch / Cooper/ Siemens
49	Addressable Heat Detector	Notifier / Edward / Bosch / Cooper/ Siemens
50	Addressable Strobe Cum Sounder	Notifier / Edward / Bosch / Cooper/ Siemens
51	Addressable Sounder / Hooter	Notifier / Edward / Bosch / Cooper/ Siemens
52	Addressable Manual Call point	Notifier / Edward / Bosch / Cooper/ Siemens
53	Addressable Monitor Module	Notifier / Edward / Bosch / Cooper/ Siemens
54	Addressable Control Module	Notifier / Edward / Bosch / Cooper/ Siemens
55	FRLS Armored Cable	Finolex / Polycab / Lapp
56	Online UPS	Vertiv / Eton / ABB / APC / Novatuer
57	Isolation Transformer	Numeric Digital system (Novature)/ Neelkanth power solution/Ador powertrans
58	I/O outlets & Fiber optics components (Data & voice /Telecom., single mode/ multimode) includin cables, LIUs, Pigtails, patch cords, connectors, couplers, spliings	Amp / CISCO / D link / Legrand
59	Network rack / Data center rack / distribution rack / server rack (Sizes 6 U to 42 U)	Vertiv / APW-Vero President / Lergand / Schneider
60	CCTV system and component	Bosch / Panasonic / JCI / honeywell
61	Addressable fire alarm system	Bosch / Notifier / Siemens / Honeywell
62	Cable for fire detection & alarm system	Finolex / Polycab / Lapp/ RR



Skulkarni

Executive Engineer

IISER Pune

Scheduled of Quantity (BOQ)

Name of work : Providing electrical distribution and light arrangement to open theater at IISER Pune.

Note : Quoted rates are inclusive of all lead, lift, GST, labour, transportation etc. Nothing Extra shall be paid separately.

SR. NO.	DESCRIPTION OF ITEM	Qty	Unit	Rates in words and figure	Amount
1	Supply and fixing of 70 / 72 W LED flood light ,(Specifications : Warm light , IP 66, with internal driver, mounting brackets, 230 V, 50 Hz, efficiency min 100 L/w, housing material - Aluminium dia cast, Beam angle 60 degree for light source) on surface/ 7 to 16 m height pole with required tools, plant, labours, manpower, transport, taxes, handling, etc included, as required. Make Wipro / Crompton / Syska / Philips	11	Nos		
2	Supply and fixing of 5 to 9 W LED wall shower light ,(Specifications : Warm light , IP 66, with internal driver, mounting brackets, 230 V, 50 Hz, efficiency min 100 L/w, housing material - Aluminium dia cast, Beam angle 60 degree for light source) on surface / wall with required tools, plant, labours, manpower, transport, taxes, handling, etc included, as required. Make Wipro / Crompton / Syska / Philips	20	Nos		
3	Supply and fixing of LED strip light 5 to 9 W on each meter ,(Specifications : Warm light , IP 56, with external driver, mounting strip 230 V, 50 Hz, efficiency min 100 L/w, housing material - glass / polycarbonate, Beam angle 180 degree for light source) on surface / wall with required tools, plant, labours, manpower, transport, taxes, handling, etc included, as required. Make Wipro / Crompton / Syska / Philips	40	meter		
4	Supply, loading, transportation unloading at site, storages at site ,shifting from storage place to site, of 1100 Volts grade XPLE insulated over all FRLS outersheathed , Aluminium / copper conductor, un armoured / armoured LT power cables as per IS 7098(Part 1) of following sizes.(Note :- Cable shall be considered flat armoured type for armoured cable) 4 C X 2.5 sq.mm Copper ,XLPE Armoured Cable	300	metre		
5	Supply, loading, transportation unloading at site, storages at site ,shifting from storage place to site, of 1100 Volts grade XPLE insulated over all FRLS outersheathed , Aluminium / copper conductor, un armoured / armoured LT power cables as per IS 7098(Part 1) of following sizes.(Note :- Cable shall be considered flat armoured type for armoured cable) 4 C X16 sq.mm Copper ,XLPE Armoured Cable	50	metre		
6	Supply and laying of HDPE PLB 40 mm OD pipe , suitable for OFC cable with required duct coupler	150	meter		
7	Laying and fixing of one number LT cable armoured direct in ground including excavation, refilling as required, with existing PLB/DWC pipe of suitable size for said cable (35 mm dia), protective covering refilling the trench etc, depth min 700 mm as required. PLB/DWC pipe is not considered in this item. upto 35 sqmm	250	meter		
8	Laying and fixing of one number LT cable armoured of approved make in the existing trenches/pipes/trays/on surface with existing protective covering of DWC/PLB pipe of suitable size of cable as required. as complete as per direction of Engineer in charge. PLB/DWC pipe is not considered in this item. Upto 35 sqmm	100	meter		



9	Supplying and laying 12 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	400	Metre		
10	MV Cable Jointing & End Termination : Supplying and making indoor end termination with brass compression gland and copper lugs, for following size of PVC insulated and PVC /XLPE sheathed , copper conductor cables of 1.1kV grade as required. : Size - 4 C X16 sq.mm Copper ,XLPE Armoured Cable	2	Each		
11	MV Cable Jointing & End Termination : Supplying and making indoor end termination with brass compression gland and copper lugs, for following size of PVC insulated and PVC /XLPE sheathed , copper conductor cables of 1.1kV grade as required. : Size - 4 C X 2.5 sq.mm Copper ,XLPE Armoured Cable	30	Each		
12	MV Cable Jointing & End Termination : Supplying and making indoor end termination with copper lugs, for following size of PVC insulated and PVC /XLPE sheathed , copper conductor cables of 1.1kV grade as required. : Size - 1 C X4 sq.mm Copper ,XLPE flex Cable	10	Nos		
13	MV Cable Jointing & End Termination : Supplying and making indoor end termination with aluminium lugs, for following size of PVC insulated and PVC /XLPE sheathed , GI conductor cables of 1.1kV grade as required. : Size - 12 SWG GI wire	10	Nos		
14	Supply, installation, testing and commissioning of Chemical earthing using electrode of size 76 mm minimum diameter, minimum 03 meter long and connected with 50x5 mm copper internal strip, material of construction COPPER, complete with existing excavation / bore, civil work for chamber, cast iron cover size 450 x 450 mm, with backfill compound as required to fill earth pit up to mark. the earth resistance shall be as per IS 3043	2	Set		
15	Supply, installation, testing and commissioning of copper strip of size 50 x 5 mm for test link at earth pit as required.	2	Each		
16	Providing boring / drilling bore well of 150mm dia for casing / strainer pipe , by suitable method, including drilling in all strata, including hiring & running charges of all equipments, tools, plants and machineries required for the job, all complete as per direction of Engineer in charge.	10	Meter		
17	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut , bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	50	meter		
18	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed including medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	100	Metre		
19	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed as required. 1 X 4 sq. mm green earth wire		meter		



20	Supplying and fixing 2 modular 15 A switch & 15 socket on the modular base and face plate with IP 55 rating weather proof PVC enclosure box. Weather proof IP 55 enclosure box should have transparent cover and locking arrangement, provision for adapting modular switch and socket, 3 / 4 module capacity, as complete with required wiring. Installation will be done on wall surface with required accessories, as complete. Make Legrand / MK / L&T	4	Nos		
21	Supply, installation, testing and commissioning of outdoor type panel with double door, 14 SWG sheet for panel, earthing terminal, suitable for mounting of 1 nos VTPN DB having 8+24 way, suitable for termination of 3 1/2 x 50 sqmm al arm cable. Having MS stand with 50x50x5 mm thick channels, height of stand 1200 mm. bottom cable entry, louvers for ventilation with mesh. GA drawing should be submitted for approval from Engineer in charge before manufacturing. Specification : 1. Panel should accommodate VTPN DB with proper ventilation. 2. OD type door design. 3. Stand MS having height 1200 m. 4. Panel size 1000x800x400 mm 5. locable doors with rubber air tight. 6. Design should be approved by engineer in charge.	1	Nos		
22	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.) 8 way (4 + 24), Double door	1	Nos		
23	MCB,MCB&DB'S Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C"curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Single pole	24	Each		
24	MCB,MCB&DB'S Supplying and fixing 63 A rating, 240/415 V, 10 kA, "C"curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. FOUR pole	1	Each		
25	Providing and laying Reinforced cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, RCC columns, piers, abutments, pillars posts, struts, buttresses, string or lacing courses, parapets, coping bed blocks, anchor blocks, window sills, fillets, sunken floor etc., near found level including the cost of necessary excavation, centering shuttering and finishing : in 1:2:4 (1 cement: 2 fine sand: 4 graded stone of 20 mm nominal size). For RCC column pedestal for street light poles (as per approved drawing). Rate is inclusive of cost of all the materials, labour, all taxes and levies, octroi etc. Quantity of concrete laid as per approved drawing shall be measured for payment.	4	Cum		
26	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth level. - Thermo-Mechanically Treated bars.	120	kg		



27	Erecting hot dip galvanized 7 meter height pole on RCC pedestal as per design requirements & as per drawing with the following specifications: (A) Height - 7 meters (B) Top 70 mm (C) Bottom dia - 130 mm (D) Sheet thickness - 3 mm (E) Base plate - 220 mm x 220 mm x 12 mm (F) Shape of cross section - Octagonal (G) Steel used - Base plate M S IS 2062 & Pole shaft S 366IO (H) Yield Strength - min 355 N/ mm ² (I) Thickness of galvanised - not less than 70 microns as per BS EN 1461 (J) Cable box - The pole should have build in 4 core cable termination box with SPMCB. (K) Wind Velocity - The pole should stand a wind velocity up to 169 Km / Hr (L) Foundation bolts manufactured from special steel alongwith nuts, washer, anchor plate and comon template including all accessories required to make the pole operational complete as per approved drawing & specifications. The rate shall be inclusive of the cost of all the materials including nutbolts, screws, wires, GI plates etc and all labour, scaffolding, hoisting arrangements, all taxes & levies, octroi etc. Except RCC pedestal as per design which shall be for paid separately. The agency shall submit the design of RCC pedestal & shop drawings for approval before taking up the work. Measurement shall be made for complete pole assembly on each pole basis.	3	Nos
28	Supplying & erecting street light bracket as per drawing for mounting flood light LED fitting on 7 meter height pole, suitable for LED 70 W flood light fitting made from suitable dia. Class B. 40 mm dia nominal bore G. I. pipe, 1.0 meter horizontal distance as per drawing, mounted on existing pole with nuts and bolts or GI clamps fabricated from 25 mm x 5 mm M.S. strip & using appropriate S.S. nuts & bolts etc as per manufacturer specifications. The rate is inclusive of the cost of material, labour, hoisting, all taxes & levies, octroi etc complete as per direction of Engineer in charge. Approval ny Engineer in charge is compulsory before execution of work.	30	Kg
29	Supplying & erecting street light bracket as per drawing for mounting flood light LED fitting on 12 to 16 meter height pole, suitable for LED 70 W flood light fitting made from suitable dia. Class B. 40 mm dia nominal bore G. I. pipe, 1.0 meter horizontal distance as per drawing, mounted on existing pole with nuts and bolts or GI clamps fabricated from 25 mm x 5 mm M.S. strip & using appropriate S.S. nuts & bolts etc as per manufacturer specifications. The rate is inclusive of the cost of material, labour, hoisting, all taxes & levies, octroi etc complete as per direction of Engineer in charge. Approval ny Engineer in charge is compulsory before execution of work.	10	kg
30	Excavation for foundation in soft soil including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 metres.	6	cum
31	Excavation for foundation trenches of depth upto 1.2 m in hard soil / RCC road cutting including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 metres.	3	cum
32	Filling available excavated earth (excluding rock) in trenches, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 metres	9	cum
Total			



Akulkarni

Executive Engineer, ISER Pune

Sign and Stamp of Agency