| Ten | Tender Schedule for the work of Standardization of existing panel board in the Environmental Science (old block) building at Kariavattom Campus(retender) | | | | | | | | |
|-------|--|----|--|------|-----------|--|------------|--|--|
| Sl No | Qty | | Specification | Unit | Rate | Rate in words | Amount | | |
| 1 | | No | | | | | 114,430.00 | | |
| | 1 | | Supply conveyance installation testing and commissioning of 415V, 50 C/s load bank enclosure single cover complete with all accessories, 1 set of cable alley and meter module comprising 1 no 125A 3 pole current limiting type Microprocessor based release MCCB with thermal setting of 50 to 100% adjustable with SC & OL protection 35/36kA as incoming, 5 nos 40A thermal magnetic adjustable type TP MCCB 25kA and 1 no 63A 25kA MCCB as outgoing, with 3 nos LED phase indication lamps, 3 nos digital type ammeters, 1no digital type 3 phase voltmeter with selector switch including necessary legend plates such as danger notice, busbar champer, cable alley etc and errection as directed at site | | 114430.00 | Rs. One lakh Fourteen thousand four hundred & thirty only | | | |
| 2 | | | Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required | | | | | | |

UNIVERSITY OF KERALA ENGINEERING UNIT, KARIAVATTOM.

| 2.1 | | | | | | | 8,960.00 |
|-------------|---|------|--|--------|---------|--|-----------|
| $\angle .1$ | | | 6 way (8+18) - double cover TPN vertical DB | | | | 8,900.00 |
| | | | with provision for fixing 4P MCB / Isolator/ | | | | |
| | | | RCCB/ RCBO as incomer and SP/ TP MCB as | | | Rs.Eight thousand nine hundred & sixty | |
| | 1 | | outgoing (IP 42/43) | E | 8960.00 | only | |
| 3 | | | | | | | |
| | | | Supply and installation of the following | | | | |
| | | | accessories suitable for 50 Hz, AC supply | | | | |
| | | | conforming to IS 8828-1995/ IEC 60898 of the | | | | |
| | | | following current ratings in the existing | | | | |
| | | | enclosure and giving connections as required | | | | |
| 3.1 | 1 | No | 63 A four pole mini break isolator | Е | 752.00 | Rs. Seven hundred & fifty two only | 752.00 |
| 3.2 | | Nos | 6-32A(C curve) SP MCB | E | | Rs.Two hundred & nineteen only | 1,095.00 |
| 3.3 | | Nos | 32A TP MCB | E | | Rs.Nine hundred & eight only | 4,540.00 |
| 4 | 5 | 1105 | | | 200.00 | | 1,5 10.00 |
| - | | | Supply, laying and clamping of 1 no. PVC | | | | |
| | | | insulated and PVC sheathed armoured | | | | |
| | | | aluminium power cable, 1.1 KV grade of the | | | | |
| | | | following sizes using clamps noted along with | | | | |
| | | | the cables, spacing of clamps not exceeding | | | | |
| | | | 60cms, making good the damages , colour | | | | |
| | | | washing etc. as required. | | | | |
| 4.1 | | m | 4 core 35 sq mm with factory made clamp | m | | Rs. Three hundred & fifty one only | 1,755.00 |
| 4.2 | 5 | m | 4c 70 sqmm | m | 548.00 | Rs. Five hundred & forty eight only | 2,740.00 |
| 5 | | | Supplying siemens / tropodur type nickel | | | | |
| | | | plated Double compression brass cable gland | | | | |
| | | | for PVC insulated and PVC sheathed | | | | |
| | | | armoured aluminium/ copper conductor cable | | | | |
| | | | 1.1 KV grade, and making end termination | | | | |
| | | | suitable for $2/3/3^{1/2}/4$ core cable of the | | | | |
| | | | following sizes as required. | | | | |
| 5.1 | 2 | Nos | 35 sq mm | E | 460.00 | Rs.Four hundred & sixty nine only | 938.00 |
| 5.2 | | Nos | | E E | | Rs. Seven hundred & fourteen only | |
| 3.2 | Z | INOS | 70 sq mm | E | /14.00 | rs. seven nunarea & fourteen only | 1,428.00 |

| 6 6.1 7 | 4 | Nos | Supplying and providing <i>earth clamps</i> for siemens/ tropodur type cable glands of suitable length and other dimensions noted along with each size of glands for the following sizes of cables as required. 25 sq - 95sq mm with 20 mm wide x 1.20 mm thick clip Supply of superior quality <i>aluminium tubular</i> | E | 27.00 | Rs. Twenty seven only | 108.00 |
|---------------|---|-----|--|---|---------|--|----------|
| | | | <i>cable socket</i> and making core termination of cables of the following sizes including crimping etc. as required. | | | | |
| 7.1 | | Nos | 35 sq mm | Е | | Rs. Sixteen only | 128.00 |
| 7.2 | | Nos | 70 sq mm | E | 24.00 | Rs. Twenty four only | 192.00 |
| 8 | 1 | No | Supply and providing <i>plate earthing</i> as per IS 3043 <i>with 600x600x6.30 mm GI/CI earth plate</i> , 20 mm GI watering pipe fixed to the earth plate with 20 x 3 mm GI clamps, GI funnel with weld mesh, filling required quantity of charcoal including construction of inspection chamber with a bed concrete of 1:4:8 PCC using 40 mm broken stone (10 cm thick), brick work in cement mortar 1:6, plastering the surface of brick masonry and the exposed surface of PCC bed with cement mortar 1:4, 12 mm thick, (the finished inside dimension shall be 300 x 300 x 300 mm) but excluding test joint, earth continuity conductor to the plate, and covering at the top. <i>(in ordinary soil)</i> | Е | 3917.00 | Rs. Three thousand nine hundred & seventeen only | 3,917.00 |
| 9 | - | | Supply and providing the following sizes of <i>cast iron gully trap with covering</i> at the top of the inspection chamber of earth pit as required | — | | | |

| 9.1 | 1 | 300 x 300 x 6 mm cast iron gully trap w | ith E | a (a a) | | 267.00 |
|------|-------|---|-----------------|------------------------|------------------------------------|----------|
| | | covering | _ | 267.00 | Rs. Two hundred & sixty seven only | |
| 10 | | | | | | |
| | | Supply and providing test joint for the | | | | |
| | | earthing system using 2 Nos of the followi | 0 | | | |
| | | sizes of strips including cutting and bendi | 0 | | | |
| | | to shape, drilling necessary holes and fixed | to | | | |
| 10.1 | 0.0 | the watering pipe etc as required. | | 1.67.00 | | 10.70 |
| 10.1 | 0.3 1 | n 2 x 25 x 3 mm GI strip | m | 165.00 | Rs. One hundred & sixty five only | 49.50 |
| 11 | | Supply and providing earth lead from the te | | | | |
| | | joint to the earth electrode using t | | | | |
| | | following sizes of conductors/ strips includi | U C | | | |
| | | cutting, drilling necessary holes (in case | | | | |
| | | strip) and fixing firmly with plate test joint e | etc | | | |
| 11.1 | | as required. | _ | 72.00 | | 202.00 |
| 11.1 | 4 r | n 25 x 3 mm GI strip | m | /3.00 | Rs. Seventy three only | 292.00 |
| 12 | | Supply and laying bare <i>earthing conductors</i> | | | | |
| | | the following sizes laid 0.6 m below groun | | | | |
| | | level including excavating trench of suitable | | | | |
| | | size and refilling etc. as required (in ordina | ry | | | |
| 12.1 | 15 1 | soil). n 4.00 mm copper conductor (8 SWG) | | 107.00 | Rs. One hundred & seven only | 1,605.00 |
| 12.1 | 151 | n 4.00 mm copper conductor (8 SWG) | m | 107.00 | Rs. One nundred & seven only | 1,005.00 |
| 15 | | | | | | |
| | | supply of superior quality <i>copper earth sock</i> for the following sizes of earth conduct | | | | |
| | | including crimping etc. as required. | .01 | | | |
| 13.1 | 61 | Nos 4.00 mm (8 SWG) | Е | 23.00 | Rs. Twenty three only | 138.00 |
| 13.1 | 01 | | | 25.00 | Rs. I wenty three only | 138.00 |
| 14 | | Supply and providing the following sizes | of | | | |
| | | <i>bolt and nut</i> with washers on the existing N | | | | |
| | | box / earth bus etc. as required includi | | | | |
| | | drilling necessary holes as required | ¹¹ 5 | | | |
| 14.1 | 10 1 | | Е | 17.00 | Rs. Seventeen only | 170.00 |

| | | | TOTAL | | | | 149,904.50 |
|------------|----|---|---|---|--------|-----------------------------------|------------|
| 17.2 | 20 | m | 4.00 sq mm 2 run | m | 106.00 | Rs. One hundred & six only | 2,120.00 |
| 17.1 | 20 | m | 6.00 sq mm 2 run | m | | Rs. One hundred & forty four only | 2,880.00 |
| 17 | | | Supply and drawing 650/1100 V grade <i>PVC</i> <i>insulated stranded single core copper</i> <i>conductor cables</i> conforming to IS 694 part I 1990 in the existing surface / recess conduit as required including giving necessary connections of the following sizes. | | | | |
| 16.1 | 10 | m | 25 mm dia light gauge | m | 95.00 | Rs. Ninety five only | 950.00 |
| 15.1 16 | | m | 15 mm diaSupply and fixing the following sizes of PVCConduit conforming to IS 9537 / 1983 part IIIalong with all required accessories on surfaceincluding making good the damages etc asrequired. | m | | Rs. Ninety only | 450.00 |
| 15 | | | Supplying, threading, laying and jointing of the following sizes of 'B' class <i>GI pipe</i> with all required accessories <i>in ground in the existing</i> <i>trench</i> as protective covering to earth leads. | | | | |

PAC Rs.1,49,904/- (Rs. One lakh forty nine thousand nine hundred and four only)

1. I/We agreed to execute the work.

2.% above the estimate rate.

2.% below the estimate rate.

3. At the estimate rate.

CONTRACTOR

UNIVERRSITY ENGINEER