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| <p align="center"><b>Government eProcurement System</b><br/> <b>Created By: KUMARAN G N D</b><br/> <b>Created Date/Time: 09-Feb-2023 12:42 PM</b><br/> <b>Tender Title: Provision of 33 KV HT power cable for NITB including SITC of VCB panel and other associated works at Trichy airport</b><br/> <b>Tender ID: 2022_AAI_140055_1</b></p> |
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**Tender Inviting Authority: Assistant General Manager (Engg-Ele), AAI, Trichy International Airport, Trichy - 620 007.**

**Name of Work: Provision of 33 KV HT power cable for NITB i/c SITC of VCB panel and other associated works at Trichy Airport.**

**Contract No: Tender Ref No: AAI/TRY/ENGG(E)/Project/2022-23/ Dt: 30.12.2022 Tender ID: 2022\_AAI\_140055**

**SCHEDULE OF WORK / ITEM(S)**

| Sl.No | Description of Work / Item(s)                                                                                                                                                                                                                                                                                                                                                                                                                     | No.of Qty | Units | Estimated Rate | DOSHI ELECTRIC ENGG. CO.(GSTN-24AAFFD3355K1Z1) | Shantha Electricals and Engineers Pvt Ltd(GSTN-29AARCS2866G1ZP) | vk sam engineering(GSTN-33AMZPS4037L1ZA) | LAKSHMI ELECTRICAL WORKS(GSTN-NA) |          |            |           |            |            |                          |
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|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |       |                | Rate                                           | Amount                                                          | Rate                                     | Amount                            | Rate     | Amount     | L1 Amount | L1 Vendor  |            |                          |
| 1.00  | Supply of 33 kV(E) earthed, stranded Aluminium conductor , XLPE insulated, screened extruded PVC type ST2 inner sheath ,galvanized steel strip armoured & overall PVC ST2 sheathed power cable confirming to IS:7098(Part2)-2011 as amended up to date .<br>(i) 3Core X 300 Sqmm                                                                                                                                                                  | 3400.00   | Mtr   |                | 2000.00                                        | 6800000.00                                                      | 2295.00                                  | 7803000.00                        | 2131.00  | 7245400.00 | 2298.00   | 7813200.00 | 6800000.00 | DOSHI ELECTRIC ENGG. CO. |
| 2.00  | Supply of 160 mm dia size HDPE pipe, ISI marked along with all accessories like socket, couplers etc. conforming to IS 4984-1995, NP6 grade, PE63 etc., complete as required.                                                                                                                                                                                                                                                                     | 100.00    | Mtr   |                | 800.00                                         | 80000.00                                                        | 910.00                                   | 91000.00                          | 500.00   | 50000.00   | 915.00    | 91500.00   | 50000.00   | vk sam engineering       |
| 3.00  | Making Horizontal boring by using suitable mechanical arrangement, Sensor operated, Min. 2.5Mtr Depth, horizontal bore well suitable for inserting 01 no 160mm Dia. HDPE Pipes. job including inserting of HDPE Pipes in bore well hole but welding etc., complete as per site requirement.                                                                                                                                                       | 100.00    | Mtr   |                | 1800.00                                        | 180000.00                                                       | 1800.00                                  | 180000.00                         | 1725.00  | 172500.00  | 2260.00   | 226000.00  | 172500.00  | vk sam engineering       |
| 4.00  | Supplying and laying of following size DWC HDPE pipe ISI marked ,450N,along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. direct in ground (120 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.<br>(i) 200 mm dia (OD-200 mm & ID-173 mm nominal) | 3000.00   | Mtr   |                | 600.00                                         | 1800000.00                                                      | 650.00                                   | 1950000.00                        | 520.00   | 1560000.00 | 390.00    | 1170000.00 | 1170000.00 | LAKSHMI ELECTRICAL WORKS |
| 5.00  | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 33 KV grade of following size in the existing RCC/HUME/ METAL/DWC pipe as required.<br>Above 120 sq. mm and upto 400 sq. mm                                                                                                                                                                                                                                             | 3220.00   | Mtr   |                | 80.00                                          | 257600.00                                                       | 450.00                                   | 1449000.00                        | 120.00   | 386400.00  | 102.00    | 328440.00  | 257600.00  | DOSHI ELECTRIC ENGG. CO. |
| 6.00  | Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 33 KV grade of following size in the existing masonry open duct as required.<br>Above 120 sq. mm and upto 400 sq. mm                                                                                                                                                                                                                                                    | 80.00     | Mtr   |                | 60.00                                          | 4800.00                                                         | 350.00                                   | 28000.00                          | 125.00   | 10000.00   | 96.00     | 7680.00    | 4800.00    | DOSHI ELECTRIC ENGG. CO. |
| 7.00  | Supplying and Making indoor cable end termination with heat shrinkable Joint kit (earthed) complete with all accessories, and including aluminium lugs for the following size of 33kV XLPE aluminium conductor cable as required.<br>(i) 3 Core 300 sq. mm                                                                                                                                                                                        | 5.00      | Set   |                | 6700.00                                        | 33500.00                                                        | 25000.00                                 | 125000.00                         | 12000.00 | 60000.00   | 16950.00  | 84750.00   | 33500.00   | DOSHI ELECTRIC ENGG. CO. |

| Sl.No | Description of Work / Item(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No.of Qty | Units | Estimated Rate | DOSHI ELECTRIC ENGG. CO.(GSTN-24AAFFD3355K1Z1) | Shantha EElectricals and Engineers Pvt Ltd(GSTN-29AARCS2866G1ZP) | vk sam engineering(GSTN-33AMZPS4037L1ZA) | LAKSHMI ELECTRICAL WORKS(GSTN-NA) |          |           |           |           |           |                                                                |
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|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |       |                | Rate                                           | Amount                                                           | Rate                                     | Amount                            | Rate     | Amount    | L1 Amount | L1 Vendor |           |                                                                |
| 8.00  | Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size XLPE aluminium conductor cable of 33 KV grade as required :<br>(i) 3 Core 300 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.00      | Set   |                | 7000.00                                        | 14000.00                                                         | 38000.00                                 | 76000.00                          | 30000.00 | 60000.00  | 22600.00  | 45200.00  | 14000.00  | DOSHI ELECTRIC ENGG. CO.                                       |
| 9.00  | Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size XLPE aluminium conductor cable of 33 KV grade as required :<br>(i) 3 Core 300 sq. mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8.00      | Set   |                | 16000.00                                       | 128000.00                                                        | 42000.00                                 | 336000.00                         | 30000.00 | 240000.00 | 33900.00  | 271200.00 | 128000.00 | DOSHI ELECTRIC ENGG. CO.                                       |
| 10.00 | Excavation of the cable trenches in hard rock/demolishing cement concrete/bituminous road/brick wall by manually / mechanical means not exceeding 1.5 meters in width and lift upto 1.5 meters, including getting out the excavated soil and disposal of excavated soil as directed within a lead of 50 meters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7.00      | Cum   |                | 1500.00                                        | 10500.00                                                         | 1800.00                                  | 12600.00                          | 750.00   | 5250.00   | 16950.00  | 118650.00 | 5250.00   | vk sam engineering                                             |
| 11.00 | Supplying and making cable route marker with cement concrete 1:2:4 ( 1 Cement : 2 Coarse sand :4 graded stone aggregate 20mm nominal size)of size 60cmx60cm at the bottom and 50x50cm at the top with a thickness of 10cm including inscriptions duly engraved as required ( For 33 KV cable Route marking / identification)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 32.00     | Each  |                | 500.00                                         | 16000.00                                                         | 3800.00                                  | 121600.00                         | 1400.00  | 44800.00  | 1356.00   | 43392.00  | 16000.00  | DOSHI ELECTRIC ENGG. CO.                                       |
| 12.00 | Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work up to plinth level :1:3:6 (1 Cement: 3 coarse sand (Zone-III) : 6 graded stone aggregate 20mm nominal size)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.00      | Cum   |                | 8500.00                                        | 34000.00                                                         | 6500.00                                  | 26000.00                          | 6500.00  | 26000.00  | 8475.00   | 33900.00  | 26000.00  | Shantha EElectricals and Engineers Pvt Ltd, vk sam engineering |
| 13.00 | Constructing brick masonry chamber in cement mortar 1:4 (1 Cement: 4 Coarse sand) with Precast top slab with 1:2:4 mix (1 Cement : 2 coarse sand : 4 graded aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement: 4 coarse sand:8 graded stone aggregate 20mm nominal size) inside and outside plastering 12mm thick with cement mortar 1:3 (1 cement: 3 coarse sand ) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 2coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating cat of neat cemet complete as per standard design: inside size 300 X 200 cm and 150 cm deep including RCC cover with frame (Heavy duty). With common burnt clay F.P.S (non modular) bricks of class designation 7.5, including providing brick Partition wall with finish in the middle of the chamber to bifurcate HT cables. | 4.00      | Each  |                | 75000.00                                       | 300000.00                                                        | 5500.00                                  | 22000.00                          | 9000.00  | 36000.00  | 28250.00  | 113000.00 | 22000.00  | Shantha EElectricals and Engineers Pvt Ltd                     |

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| Sl.No | Description of Work / Item(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No.of Qty | Units | Estimated Rate | DOSHI ELECTRIC ENGG. CO.(GSTN-24AAFFD3355K1Z1) |            | Shantha Electricals and Engineers Pvt Ltd(GSTN-29AARCS2866G1ZP) |            | vk sam engineering(GSTN-33AMZPS4037L1ZA) |            | LAKSHMI ELECTRICAL WORKS(GSTN-NA) |            | L1 Amount  | L1 Vendor                                 |
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|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |       |                | Rate                                           | Amount     | Rate                                                            | Amount     | Rate                                     | Amount     | Rate                              | Amount     |            |                                           |
| 17.01 | <p>Outgoing VCB Panels each comprising of:</p> <p>i. .33kV, 630A, 10MVA Vacuum Circuit Breaker.</p> <p>ii. Set of 03nos. Cast resin insulated Dual core dual ratio CT, 33kV, 200-100/5-5A, Core1: Class 5P10, 10VA, Core2: Class 0.2s, 10VA</p> <p>iii. Breaker control switch 240 V AC, spring charging motor, 24 V, DC Shunt/tripping coil/closing coil Lockable type, Trip/Neutral/Close (TNC) Switch, Set of ON/OFF/TRIP indicating, Set of R/Y/B Phase indicating lamps, Clear lamp for Trip Circuit healthy supply &amp; Trip Circuit fails, DC Control Supply, indicating lamps. LED Illumination lamp for ON / OFF with limit Switch, space heater with thermostat ,with switch 6/16 amps 5 Pin switch socket outlet, control terminal as required. Auxiliary contact for Aux. relays for Anti Pumping &amp; indication, electrically/ Mechanically interlocking etc. as required, 12 window alarm annunciator with windows and buzzer, power pack ,rest push button for electrical faults in panel, complete with control wiring, Terminal Blocks, cable-ducts, protection MCBs.</p> <p>iv. 01 No. for each breaker:- Digital Multifunction Meter, accuracy class 0.5s, with LED/LCD screen of Max Demand Load, I ;V; Hz; Active, Reactive , Apparent Power &amp; Energy; Power factor; % unbalance of current &amp; voltage; %THD, individual harmonics up to 15th level (complying with IEC61557-12) with RS 485 / Ethernet port and protection MCBs. and required accessories to complete the system.</p> <p>Numerical Protection Relay (Both Incomer &amp; out going) modular design , confirming to IEC 60255, protection scheme for detecting, indicating and tripping the breaker on critical faults like:</p> <p>(a) over current &amp; short circuit 51,51N &amp; one earth fault element in the three phases,</p> <p>(b) negative sequence currents due to line-to-line or conductor-break faults,</p> <p>(c) residual and three-phase under-voltages/over-voltages,</p> <p>(d) circuit-breaker-failure alarm,</p> | 1.00      | Each  |                | 3800000.00                                     | 3800000.00 | 2400000.00                                                      | 2400000.00 | 3431450.00                               | 3431450.00 | 3901986.00                        | 3901986.00 | 2400000.00 | Shantha Electricals and Engineers Pvt Ltd |

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| Sl.No | Description of Work / Item(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No.of Qty | Units | Estimated Rate | DOSHI ELECTRIC ENGG. CO.(GSTN-24AAFFD3355K1Z1) |            | Shantha Electricals and Engineers Pvt Ltd(GSTN-29AARCS2866G1ZP) |            | vk sam engineering(GSTN-33AMZPS4037L1ZA) |            | LAKSHMI ELECTRICAL WORKS(GSTN-NA) |            | L1 Amount  | L1 Vendor                |
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| 18.01 | 01nos. Outgoing VCB Panels comprising of:<br>i. 11kV, 630A, 10 MVA Vacuum Circuit Breaker<br>ii. Set of 03nos. Cast resin insulated Dual core dual ratio CT, 11kV, 200-100/5-5A, Core1: Class 5P10, 10VA, Core2: Class 0.2, 10VA<br>iii. Breaker control switch 240 V AC, spring charging motor 24 V, DC Shunt/tripping coil/closing coil Lockable type, Trip/Neutral/Close (TNC) Switch, Set of ON/OFF/TRIP indicating, Set of R/Y/B Phase indicating lamps, Clear lamp for Trip Circuit healthy supply & Trip Circuit fails, DC Control Supply healthy & fails, indicating lamps. LED Illumination lamp for ON / OFF with limit Switch, space heater with thermostat, switch 6/16 amps 5 Pin switch socket outlet, control terminal as required. Auxiliary contact for Aux. relays for Anti Pumping & indication, electrically/ Mechanically interlocking etc. as required, 12 window alarm annunciator with windows and buzzer, rest push button for electrical faults in incomer panel, complete with FRLS wiring, Terminal Blocks, cable-ducts, protection MCBs.<br>iv. 01 No. for each breaker:- Digital Multifunction Meter, accuracy class 0.5s, with LED/LCD screen of Max Demand Load, I ;V; Hz; Active, Reactive , Apparent Power & Energy; Power factor; % unbalance of current & voltage; %THD, individual harmonics up to 15th level<br>(complying with IEC61557-12) with RS 485 / Ethernet port and protection MCBs. and required accessories to complete the system.<br>Numerical Protection Relay for both(Incomer & out going) , modular design , confirming to IEC 60255, protection scheme for detecting, indicating and tripping the breaker on critical faults like:<br>(a) over current & short circuit 51,51N & one earth fault element in the three phases,<br>(b) negative sequence currents due to line-to-line or conductor-break faults,<br>(c) residual and three-phase under-voltages/over-voltages,<br>(d) circuit-breaker-failure alarm,<br>(e) tripping-circuit-failures and interpanel tripping/blocking | 1.00      | Each  |                | 1350000.00                                     | 1350000.00 | 1600000.00                                                      | 1600000.00 | 1454750.00                               | 1454750.00 | 1427250.00                        | 1427250.00 | 1350000.00 | DOSHI ELECTRIC ENGG. CO. |

| Sl.No | Description of Work / Item(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No.of Qty | Units | Estimated Rate | DOSHI ELECTRIC ENGG.<br>CO.(GSTN-24AAFFD3355K1Z1) |           | Shantha Electricals and Engineers Pvt Ltd(GSTN-29AARCS2866G1ZP) |           | vk sam engineering(GSTN-33AMZPS4037L1ZA) |           | LAKSHMI ELECTRICAL WORKS(GSTN-NA) |           | L1 Amount | L1 Vendor          |
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| 19.00 | Providing Concrete foundation platform for installing 33KV outdoor VCB panel as supplied in item number 1 ,including providing concrete M25 garde design Mix foundation of nominal dimension (7000X6000 )mm with depth of 800 mm(500 mm above ground level & 300 mm Below ground level ),100mm base concrete with 1:3:6 PCC ,RCC rafting with 10 mm steel rod with spacing 150 mm in foundation , suitable size covered cable trench/pipes for entry of 33KV cables, control cables in rear/front side side of Panel in the concrete platform etc. as required. Necessary steps as required to be provided in the platform for accessing the panel. Supply and fixing of fencing all around the pedestal made out of 40x40x6 MM MS angle with 6mm size 25 x25mm welded mesh, with Gate of size 1200(W)x 1800(H) mm. Proper supports shall be provided with MS Flats wherever necessary to prevent the welded mesh from warping. The 75x 40 mm. channel vertical support for the gate shall be fixed into the ground with PCC. with 2.5 Mtr. height ,40 mm M S fabricated Poles around the yard with suitable size of MS angles, M S Channels, MS flats, fixing wire mesh, fencing ,concrete foundation with spacing not less than 2 mtrs span between poles . M S Poles and the wire mesh shall be painted with approved color as per E.I.C Direction .The length of the fencing should cover all sides of the foundation with sufficient clearance form sides of the pedestal, complete etc. as per site requirement. | 1.00      | Job   |                | 600000.00                                         | 600000.00 | 650000.00                                                       | 650000.00 | 175000.00                                | 175000.00 | 569520.00                         | 569520.00 | 175000.00 | vk sam engineering |

| Sl.No | Description of Work / Item(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No.of Qty | Units | Estimated Rate | DOSHI ELECTRIC ENGG. CO.(GSTN-24AAFFD3355K1Z1) |           | Shantha Electricals and Engineers Pvt Ltd(GSTN-29AARCS2866G1ZP) |           | vk sam engineering(GSTN-33AMZPS4037L1ZA) |           | LAKSHMI ELECTRICAL WORKS(GSTN-NA) |           | L1 Amount | L1 Vendor                |
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|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |       |                | Rate                                           | Amount    | Rate                                                            | Amount    | Rate                                     | Amount    | Rate                              | Amount    |           |                          |
| 20.00 | SITC of 33 KV, outdoor type double pole structure, with 10.05 Mtr. height 2 Pole structure , 200mm x 100mm RS Joist and 100mm x 50mm cross channel for supporting HT equipments with MS base plates 375mm x 375mm x 10mm provided at the bottom for grouting to cement concrete foundation including paintings, bolt and nuts etc., with 1Coat of anti corrosive paint and finishing with 2Coat of Aluminium paint as per site requirements and with all accessories required to complete the work comprising of the following items. Cross arms and the angles to support 2 Pole structure included.<br>Erection of following item<br>a) 33KV Disc Insulator (1 Set of 3 Nos.) - 1 Set<br>b) 33KV 400A Triple pole 3 insulator double break operator air break switch complete with insulator operating rod, handles etc.,<br>As per standard practice 3 Nos. - 1Set<br>c) 33KV PT insulator with metal part (1 Set of 3 Nos.) - 2 Set<br>d) 33KV Station class lighting arrestor,suitable DP structure (1 Set of 3 Nos.) - 1 Set<br>e) 33KV HG Fuse with Insulator (1 Set of 3 Nos.) - 1 Set<br>f) Necessary guysackel insulators with stay wire and accessories – 2 Set<br>g) Bi – metallic clamp , 'A' Tool & DMC Support with Suitable bolt Nut Item With all accessories suitable above DP structure.<br>h)Providing Interlock between 33KV Point of supply VCB and 33KV 400/800A AB Switch for No load operation as per Electrical inspectorate norms<br>i)Laying of 40 x 6mm Cu flat for connecting the insulators for 33KV DP Structure.<br>j)Fixing of 33KV Danger Board.<br>k)Laying of 25 x 3mm Copper ribben for AB switch handl earthing and fencing door earthing. & 95 Sq.mm Cu. Socket.<br>L)Laying of loop earthing for the above 2 pole structure with earth pits with 6 SWG GI wire in 20 mm GI pipe B class pipe .<br>m) Supply of fixing 75mm x 10mm GI Flat for the 2 Pole | 1.00      | Job   |                | 750000.00                                      | 750000.00 | 850000.00                                                       | 850000.00 | 515000.00                                | 515000.00 | 310750.00                         | 310750.00 | 310750.00 | LAKSHMI ELECTRICAL WORKS |

Total in Figures

16223200.00

17915200.00

15545990.00

16676772.00

Lowest Amount Quoted BY: vk sam engineering(15545990.00)

Signature Not Verified

Digitally signed by G N D KUMARAN  
Date: 2023.02.09 13:41:41 IST  
Location: eProcurement System for Central PSUs

