



भारतीय विमानपत्तन प्राधिकरण  
AIRPORTS AUTHORITY OF INDIA

No: AAI/NATS/E-E/AMC-E&M /2020-21/W.O – 02/ 27

Date: 29 Jun 2020

To,

M/s V Tech Energy,  
D/870A, Gali No. 13, Ashok Nagar,  
Shahadra, Delhi-110093  
Email : [vtechdelhi@yahoo.com](mailto:vtechdelhi@yahoo.com)

**Subject :** Annual Maintenance Contract of Electrical Installation for 02 years at NATS Complex, IGI Airport, New Delhi (2020-22).

**Reference :** 1) Your E-tender opened on 23.03.2020

Dear Sir,

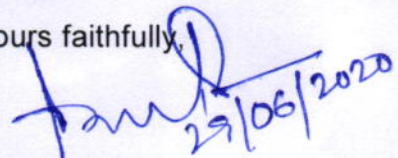
1. Your e-bid for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the item rate quoted by you totaling to Rs.30,51,004/- (Excluding GST) after deletion/exclusion of certain supply items which is 17.16% below the corresponding justified Cost of Rs.36,83,069/- (Excluding GST).
2. Asstt. Gen. Mgr (E-E), AAI, New ATS Complex, shall be the Engineer-In-Charge of the work. You are requested to attend the office of Asstt. Gen. Mgr. (E-E), AAI, New ATS Complex, within ten days to sign and complete the Contract Agreement. The Contract Agreement shall be executed on a non-judicial stamp paper of value Rs. 100/- (Rupees One Hundred Only) and the cost of the stamp paper shall be borne by you.
3. Please deposit Rs. 2,20,600/- (after deduction of EMD amt. that was deposited as FDR at the time of tender procedure) towards Security Deposit within 10 days from the date of issue of this letter, failing which, 10% of work done value will be deducted from each running bill.
4. You are requested to comply with the provision of Contract Labour (Regulation and Abolition) Act 1970 and Contract Labour (Regulation and Abolition) Central rules 1971 and minimum wages act and rules thereof Central and State Governments.
5. You are also directed to contact Manager (E-E), AAI, New ATS Complex, who will arrange to hand over the site to you. Please note that the time allowed for carrying out the work shall be **Two Years** and same shall be reckoned from 01.07.2020.

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6. Any further correspondence in connection with the contract should normally be addressed to Asstt. Gen. Mgr. (E-E), Airports Authority of India, New ATS Complex, IGI Airport, New Delhi – 110037.
7. The rates are inclusive of all taxes, duties, Cess, fees, royalty charges etc. levied under any statute but exclusive of GST (as applicable). The agency has to submit the bill, Tax invoices along with all necessary documents for preparing bill by this office.
8. All the letters referred above shall form part of Contract.
9. The defects liability period is **Six Months** from the date of actual completion of the work.
10. The Operation of present site of works i.e. NATS Complex has been shifted to DATS building and this building is under standby. Hence, the work may be foreclosed with prior notice, if the standby operation at NATS building is closed during this contract period.

Thanking You.

Yours faithfully,

  
(K Santhosh Kumar)  
Asstt. Gen. Mgr. (E-E)  
AAI, NATS Complex

**Enclosure:** Schedule of Quantities (Four Pages)

**Copy to :**

1. Jt. Gen. Mgr. (F&A), AAI, Operational Office Complex, Rangpuri, New Delhi.
2. Jt. Gen. Mgr. (E-E), AAI, Operational Office Complex, Rangpuri, New Delhi.
3. Manager (E-E)-I, AAI, NATS, Complex, New Delhi.
4. Office of the Labour Commissioner, Govt. of NCT of Delhi, 5, Sham Nath Marg, Delhi- 110054
5. Agreement Copy

## SCHEDULE OF QUANTITY

Name of work : Annual Maintenance Contract of Electrical Installation for 02 years at NATS Complex, IGI Airport, New Delhi (2020-22).

| Sl.No.                                           | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit  | Qty. | Rates (Rs.) | Amount (Rs.)      |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------------|-------------------|
| <b>SH-1 : MANPOWER</b>                           |                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |                   |
| 1                                                | Maintenance/operation of various Electrical & Mechanical installation including preventive and break down maintenance / repairs, attending complaints on all working days( 6 days in a week) i/c holidays etc. complete as required at NATS complex, IGI Airport with following manpower, <u>as and when required</u> .                                                                                                                      |       |      |             |                   |
| (a)                                              | Electrician/Operator (Skilled)-02 No. in one shift + Electrical attendant (Unskilled) - 02 No. in one Shift.                                                                                                                                                                                                                                                                                                                                 | Month | 24   | 70100       | 1682400.00        |
| <b>Total of SH-1</b>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |      |             | <b>1682400.00</b> |
| <b>SH-2 (Rewinding / Repair of Motors etc. )</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |                   |
| 1                                                | Rewinding of Exhaust fans/ pedestal fan/wallmounted fan of following sizes with super enameled copper wire of suitable gauge & insulation grade i/c replacement of ball bearing, shaft etc. as reqd. Dismantling, transportation to workshop and back reinstallation, testing, commissioning, making connection, providing and fixing of necessary nut & bolts etc. (As & when required). (Old winding material will be retained by agency.) |       |      |             |                   |
| (a)                                              | 600 mm                                                                                                                                                                                                                                                                                                                                                                                                                                       | Each  | 2    | 417         | 834.00            |
| (b)                                              | 450 mm                                                                                                                                                                                                                                                                                                                                                                                                                                       | Each  | 2    | 417         | 834.00            |
| (c)                                              | 380 / 400 mm                                                                                                                                                                                                                                                                                                                                                                                                                                 | Each  | 4    | 417         | 1668.00           |
| (d)                                              | 300 mm                                                                                                                                                                                                                                                                                                                                                                                                                                       | Each  | 2    | 417         | 834.00            |
| (e)                                              | 250 mm                                                                                                                                                                                                                                                                                                                                                                                                                                       | Each  | 2    | 417         | 834.00            |
| 2                                                | Rewinding of ceiling fans of 1200/1400 mm with super enamelled copper wire of suitable gauge & insulation grade i/c replacement of ball bearing, shaft etc. as reqd. Dismantling, transportation to workshop & back and re-installation i/c connection, testing & commissioning (as & when required ). (Old winding material will be retained by agency).                                                                                    | Each  | 5    | 417         | 2085.00           |
| 3                                                | Rewinding of different models and make 3 phase induction <u>motors of centrifugal and monoblock pump/submersible pump</u> motors of following capacities <u>as &amp; when</u> required with copper conductor of suitable gauge and insulation grading i/c dismantling, transportation, from the site to workshop and back, re- installation etc. complete as required. (Old winding material will be retained by agency.)                    |       |      |             |                   |
| A.                                               | <b>Monoblock Pump Motor</b>                                                                                                                                                                                                                                                                                                                                                                                                                  |       |      |             |                   |
| (i)                                              | 3 HP                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each  | 4    | 2250        | 9000.00           |
| (ii)                                             | 5 HP                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each  | 4    | 3000        | 12000.00          |
| B.                                               | <b>Submersible Pump Motor</b>                                                                                                                                                                                                                                                                                                                                                                                                                |       |      |             |                   |
| (i)                                              | 3 HP                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each  | 3    | 3300        | 9900.00           |
| (ii)                                             | 5 HP                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each  | 5    | 3300        | 16500.00          |
| 4                                                | Repairing of 3-phase monoblock / submersible pump by replacement of defective bronze bushes,bearings, impeller, water seal, gasket, shaft, impeller etc. complete as required (As & when required) of capacity (Old dismantle material will retain by agency).                                                                                                                                                                               |       |      |             |                   |
| (a)                                              | 3 HP                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each  | 4    | 3300        | 13200.00          |
| (b)                                              | 5 HP                                                                                                                                                                                                                                                                                                                                                                                                                                         | Each  | 8    | 3300        | 26400.00          |
| 5(a)                                             | Labour charges on lifting of all existing size submersible pump motor set ( Bore well pump set ) from the existing bore of upto 250 feet deep as & when required along with pipe lines, cable , wire rope etc. and re-installation of the same after rectification of the defect (Spare parts charges of repairing for rectification of pump/motor will be paid separately).                                                                 | Each  | 4    | 2500        | 10000.00          |
| 5(b)                                             | Labour charges on lifting of all existing size submersible pump motor set from the existing sump of upto 25 feet deep as & when required along with pipe lines, cable etc. and re-installation of the same after rectification of the defect (Spare parts charges of repairing for rectification of pump/motor will be paid separately).                                                                                                     | Each  | 4    | 2400        | 9600.00           |
| 6                                                | Dehydration and filtration of transformer oil at NATS Bldg. complete i/c hiring charges of filtration machine, labour, drums etc. complete with submission of oil testing for acidity report. (The quantity includes 2 Nos. dehydration for 2 Nos. transformers for the year 2018-19 and 2019-20)                                                                                                                                            | Ltr.  | 7000 | 5           | 35700.00          |
| 7                                                | Dismantling and Removing of existing SFU of various capacities from the different existing panel and supply & fixing of following capacities MCCBs /MCBs for the existing panel i/c required modification, cutting, rubber gasket and fabrication required, work din rail to install new MCCB/MCB including end termination, interconnection and all associated works complete as & when required.                                           |       |      |             |                   |
| (a)                                              | MCCB, 100 Amp (10 KA), 4P.                                                                                                                                                                                                                                                                                                                                                                                                                   | Job   | 4    | 1050        | 4200.00           |
| (b)                                              | MCCB 125Amp (25KA), 4P.                                                                                                                                                                                                                                                                                                                                                                                                                      | Job   | 4    | 1050        | 4200.00           |
| 8                                                | Painting of Street Light pole with suitable approved make paint two coat and numbering upto satisfaction of EIC                                                                                                                                                                                                                                                                                                                              | Each  | 160  | 150         | 24000.00          |
| 9                                                | Repairing of earth pit with plaster as per direction o EIC.                                                                                                                                                                                                                                                                                                                                                                                  | Each  | 40   | 200         | 8000.00           |
| 10                                               | Supply and fixing CI/MS cover plate for earth pit hinged with locking arrangement upto satisfaction of EIC.                                                                                                                                                                                                                                                                                                                                  | Each  | 15   | 250         | 3750.00           |
| <b>Total of SH-2</b>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |      |             | <b>193539.00</b>  |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                | Unit | Qty. | Rates (Rs.) | Amount (Rs.) |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------------|--------------|
|        | <b>SH-3 :- Supply Items</b>                                                                                                                                                                                                                                                        |      |      |             |              |
|        | Supply of following electrical spares/items suitable for single phase 50 Hz A.C. supply complete as given below :                                                                                                                                                                  |      |      |             |              |
| 1      | <b>Lamps for Fluorescent Tube Light</b> for general lighting services.                                                                                                                                                                                                             |      |      |             |              |
| (a)    | 36 Watt ( T 8 FTL)                                                                                                                                                                                                                                                                 | Each | 500  | 40          | 20000.00     |
| (b)    | 28 Watt ( T 5 FTL)                                                                                                                                                                                                                                                                 | Each | 12   | 90          | 1080.00      |
| (c)    | 14 watt T-5 HE 6500K                                                                                                                                                                                                                                                               | Each | 12   | 90          | 1080.00      |
| (d)    | 18W / 20 W (2 Feet).                                                                                                                                                                                                                                                               | Each | 40   | 40          | 1600.00      |
| 2      | CFL lamps of following ratings :                                                                                                                                                                                                                                                   |      |      |             |              |
| (a)    | 36 watt (FP-L-36 Watt), 4 Pins.                                                                                                                                                                                                                                                    | Each | 100  | 90          | 9000.00      |
| (b)    | 18 Watt CFL (2 Pins).                                                                                                                                                                                                                                                              | Each | 300  | 80          | 24000.00     |
| (c)    | 11 Watt CFL, Retrofit type.                                                                                                                                                                                                                                                        | Each | 50   | 85          | 4250.00      |
| 3      | Supply of 18-20 watt LED T8 tube with minimum light 1650lm with prior approval of EIC.                                                                                                                                                                                             | Each | 600  | 500         | 300000.00    |
| 4      | Supply of cordless call bell with remote with battery, bell to be put in light socket with accessories complete as reqd..                                                                                                                                                          | Each | 6    | 450         | 2700.00      |
| 5      | Supply of 600 watt, air flow 3.3 m3/min blower suitable for 50 Hz, 220 V. Make-bosch or equivalent with approval of EIC                                                                                                                                                            | Each | 2    | 2100        | 4200.00      |
| 6      | Supply of 2x36 w CFL recess mounted luminaries with powder coated CRCA housing with mirror optics louver and decorative sans and wings alongwith CFLs electronic ballast complete with all accessories required. (Philips FBS450/236M2 PW EBT 2xPL-L36W or equivalent as per EIC). | Each | 4    | 2200        | 8800.00      |
| 7      | Supply of <b>starter</b> suitable for Fluorescent tube light/CFL of following ratings :                                                                                                                                                                                            |      |      |             |              |
| (a)    | Universal starter for 18 Watt, 110 V.                                                                                                                                                                                                                                              | Each | 20   | 22          | 440.00       |
| (b)    | Universal starter for 36 Watt., 230 V.                                                                                                                                                                                                                                             | Each | 300  | 8           | 2400.00      |
| 8      | Supply of Electronic Ballast for following CFL / FTL fittings :                                                                                                                                                                                                                    |      |      |             |              |
| (a)    | 1x18 watt CFL                                                                                                                                                                                                                                                                      | Each | 50   | 95          | 4750.00      |
| (b)    | High performance Electronic Ballast for 1 X 36/40 Watt FTL                                                                                                                                                                                                                         | Each | 200  | 195         | 39000.00     |
| (c)    | High performance Electronic Ballast for 2 X 36/40 Watt FTL( THD<33%)                                                                                                                                                                                                               | Each | 50   | 450         | 22500.00     |
| 9      | Supply of PVC insulated, PVC round sheathed, unarmoured copper conductor flexible cable, 1.1 KV grade confirming to IS : 694 with upto date amendments as reqd.                                                                                                                    |      |      |             |              |
| (a)    | 3x1.5 sqmm Rate per Mtr                                                                                                                                                                                                                                                            | Mtr. | 100  | 35          | 3500.00      |
| (b)    | 3x4 sqmm                                                                                                                                                                                                                                                                           | Mtr. | 100  | 95          | 9500.00      |
| (c)    | 3x6 sqmm                                                                                                                                                                                                                                                                           | Mtr. | 100  | 97          | 9700.00      |
| (d)    | 3x10 sqmm                                                                                                                                                                                                                                                                          | Mtr. | 100  | 130         | 13000.00     |
| (e)    | 4x6 sqmm                                                                                                                                                                                                                                                                           | Mtr. | 100  | 160         | 16000.00     |
| (f)    | 4x10 sqmm                                                                                                                                                                                                                                                                          | Mtr. | 100  | 225         | 22500.00     |
| 10     | Supply of single core copper conductor flexible PVC insulated industrial grade cable, 1.1 KV grade confirming to IS : 694 with upto date amendments as reqd.                                                                                                                       |      |      |             |              |
| (a)    | 0.75 sqmm (HR-FR)                                                                                                                                                                                                                                                                  | Mtr. | 200  | 6           | 1200.00      |
| (b)    | 1.5 sqmm (FR-LSH)                                                                                                                                                                                                                                                                  | Mtr. | 180  | 13          | 2340.00      |
| (c)    | 4 sqmm (FR-LSH)                                                                                                                                                                                                                                                                    | Mtr. | 180  | 25          | 4500.00      |
| (d)    | 10 sqmm (FR)                                                                                                                                                                                                                                                                       | Mtr. | 100  | 75          | 7500.00      |
| 11     | Supply of 150 watt Metal halide double ended quartz tube lamp, MH -6000K                                                                                                                                                                                                           | Each | 10   | 350         | 3500.00      |
| 12     | Supply of 70 Watt HPSV-(SON-E) type elliptical lamp.                                                                                                                                                                                                                               | Each | 100  | 200         | 20000.00     |
| 13     | Supply of self adhesive PVC electrical insulation tape (ISI Marked).                                                                                                                                                                                                               | Each | 300  | 7           | 2100.00      |
| 14     | Supply of distilled water suitable for charging of heavy duty batteries used for DG sets.                                                                                                                                                                                          | Ltr. | 100  | 34          | 3400.00      |
| 15     | Supply of Power strip / extension board of 16 Amp. ratings, 3 Nos. socket and 3 No. switch indicating lamps, 3 pin moulded type plug top, 3 core PVC wire suitable for computer etc.                                                                                               | Each | 15   | 250         | 3750.00      |
| 16     | Supply of Old cotton dhoties suitable for cleaning of panels etc.                                                                                                                                                                                                                  | Kg   | 50   | 35          | 1750.00      |
| 17     | <b>Supply of Socket &amp; Switch combined</b> , 10/20 Amp, with box, 2 hole.                                                                                                                                                                                                       | Each | 100  | 105         | 10500.00     |
| 18     | Supply of 3 pin Plug top, of the following sizes :                                                                                                                                                                                                                                 |      |      |             |              |
| (a)    | 6 Amps,                                                                                                                                                                                                                                                                            | Each | 20   | 31          | 620.00       |
| (b)    | 16 Amps                                                                                                                                                                                                                                                                            | Each | 20   | 50          | 1000.00      |
| 19     | Supply of HRC fuse link of following ratings 80 KA breaking capacity 415 Volt suitable for existing panel switchgear. Make : L & T or equivalent                                                                                                                                   |      |      |             |              |
| (a)    | 2 Amps round type                                                                                                                                                                                                                                                                  | Each | 10   | 38.00       | 380.00       |
| (b)    | 6 Amps offset                                                                                                                                                                                                                                                                      | Each | 10   | 38.00       | 380.00       |
| (c)    | 32 Amps (A1)                                                                                                                                                                                                                                                                       | Each | 10   | 73          | 730.00       |
| (d)    | 63 Amp (A1L)                                                                                                                                                                                                                                                                       | Each | 10   | 73.00       | 730.00       |
| (e)    | 125 Amp                                                                                                                                                                                                                                                                            | Each | 10   | 310         | 3100.00      |
| (f)    | 250 Amp (slim knife type)                                                                                                                                                                                                                                                          | Each | 10   | 380         | 3800.00      |
| 20     | Supply of 2.25 MFD capacitor suitable for fan.                                                                                                                                                                                                                                     | Each | 50   | 25          | 1250.00      |
| 21     | Supply of RCCB, 4 Pole suitable for 415V, 50Hz, 40 Amp Capacity, 300 mAmp                                                                                                                                                                                                          | Each | 2    | 2000        | 4000.00      |
| 22     | Supply of <b>MCB</b> , TP, 25 Amp, (Breaking Capacity 10KA, C Series).                                                                                                                                                                                                             | Each | 10   | 600         | 6000.00      |
| 23     | Supply of <b>MCB</b> , TP 63 Amps (breaking capacity 10KA, C- series).                                                                                                                                                                                                             | Each | 10   | 900         | 9000.00      |
| 24     | Supply of following types MCB/MCCBs suitable for installation:                                                                                                                                                                                                                     |      |      |             |              |
| (a)    | MCB, 63 Amps, 4 Pole, (Breaking Capacity 10 KA, 'C' series), Make : Havells or Equivalent.                                                                                                                                                                                         | Each | 4    | 1150        | 4600.00      |
| (b)    | MCB 100 Amps,, 4-pole, (Breaking Capacity 10 KA, 'C' series, high ratings).                                                                                                                                                                                                        | Each | 4    | 5300        | 21200.00     |

| Sl.No. | Description of Item                                                                                                                                                                                                                  | Unit | Qty. | Rates (Rs.) | Amount (Rs.) |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------------|--------------|
| 25     | Supply of <b>MCCB, 4 Pole</b> , 125 Amps (25 KA breaking capacity) suitable to existing switchgears.                                                                                                                                 | Each | 4    | 4000        | 16000.00     |
| 26     | Supply of <b>MCCB, 4 Pole</b> , 100 Amps (10 KA breaking capacity), Cat No : IHLGSF01000, Makes : Havells, or Equivalent suitable to existing switchgears.                                                                           | Each | 4    | 3600        | 14400.00     |
| 27     | Supply of LED Type Indicator for R,Y,B Phase, for Red, Blue, Yellow colour and green suitable for 240 Volt AC. as per sample, Make : L&T or equivalent.                                                                              |      |      |             |              |
| (a)    | Red, Yellow and Green                                                                                                                                                                                                                | Each | 4    | 130         | 520.00       |
| (b)    | Blue                                                                                                                                                                                                                                 | Each | 4    | 200         | 800.00       |
| 28     | Supply of LED Type Indicator lamp complete with accessories suitable for 110 DC Volt. Suitable for existing panel Make : L&T or equivalent.                                                                                          | Each | 10   | 150         | 1500.00      |
| 29     | Supplying of <b>Direct On Line Starter</b> for upto 7.5 HP, 415 V, 50 Hz, 3 Phase in sheet steel enclosure, etc. (Model : MK1, Make : L&T or Equivalent).                                                                            | Each | 2    | 1400        | 2800.00      |
| 30     | Supply of Direct On Line -Submersible pump Starter for 5/6 HP, 415 V, 50 Hz, 3 Phase in sheet steel enclosure alongwith ammeter, voltmeter and indicators etc. ( Make : L&T or Equivalent).                                          | Each | 2    | 2550        | 5100.00      |
| 31     | Supply of LED based rechargeable Emergency Light suitable for single phase, 50 Hz, 5W alongwith 3.7 V, 4.4 Ah rechargeable battery, complete as reqd. (Model : LHXTEP7HN1R005), Make : Havells or equivalent with approval of E-I-C. | Each | 5    | 1400        | 7000.00      |
| 32     | Supply of LED torch 3 watt rechargeable , battery capacity 4V, 2000 mAh battery backup 5 Hrs approx. as approved by EIC.                                                                                                             | Each | 5    | 500         | 2500.00      |
| 33     | Supply of following batteries (Note: The contractor shall quote the rate for the above item by considering the discount for existing old batteries which shall be taken away by the contractor).                                     |      |      |             |              |
| (a)    | Heavy duty Batteries 12 V, 180 Ah 25 plates fully charged for replacement of existing batteries as & when required (Make Exide Express XP-1800 or equivalent with prior approval of E-I-C).                                          | Each | 8    | 15000       | 120000.00    |
| (b)    | 12V, 17 AH sealed rechargeable battery. Make - Exide                                                                                                                                                                                 | Each | 4    | 1900        | 7600.00      |
| (c)    | 12 V, 7.2 AH Amaron make or equivalent                                                                                                                                                                                               | Each | 4    | 800         | 3200.00      |
| (d)    | 12 V, 65 AH Exide make                                                                                                                                                                                                               | Each | 2    | 5200        | 10400.00     |
| 34     | Supply of Insect killer 2x18/20 watt , Make : Avro Model: killer-1000 or equivalent with prior approval of Engineer-In-charge.                                                                                                       | Each | 4    | 2550        | 10200.00     |
| 35     | Supply of following logbooks for maintaining data as in earlier practice :-                                                                                                                                                          |      |      |             |              |
| (a)    | Substation Log book (log size)-100 page                                                                                                                                                                                              | Each | 10   | 130         | 1300.00      |
| (b)    | DG set log book - 100 page                                                                                                                                                                                                           | Each | 20   | 90          | 1800.00      |
| (c)    | Lift log book - 100 page                                                                                                                                                                                                             | Each | 20   | 180         | 3600.00      |
| (d)    | Pump log book -100 page                                                                                                                                                                                                              | Each | 20   | 180         | 3600.00      |
| (e)    | MAS Register - 400 page                                                                                                                                                                                                              | Each | 4    | 90          | 360.00       |
| (f)    | OTA Register - 400 p                                                                                                                                                                                                                 | Each | 6    | 90          | 540.00       |
| 36     | Supply of following type DBs                                                                                                                                                                                                         |      |      |             |              |
| (a)    | SPN 12 way DB with doubledoor, busbar, neutral links, earth bar, etc complete (metal body)                                                                                                                                           | Each | 4    | 950         | 3800.00      |
| (b)    | TP&N, 4 way, Vertical DB double door type fitted with Bus Bars, Neutral links, earth bars etc complete suitable for MCCB as incomer as required.                                                                                     | Each | 2    | 4500        | 9000.00      |
| 37     | Supply of following box, cover plates, casing & capping, switch & socket as and when required.                                                                                                                                       |      |      |             |              |
| (a)    | 6A, One way switch (Piano type)                                                                                                                                                                                                      | Each | 2    | 12          | 24.00        |
| (b)    | 6A, 5 Pin Socket (Piano type)                                                                                                                                                                                                        | Each | 6    | 22          | 132.00       |
| (c)    | 20A, One way switch (Piano type)                                                                                                                                                                                                     | Each | 2    | 50          | 100.00       |
| (d)    | 20A, 6 Pin Socket with shutter (Piano type)                                                                                                                                                                                          | Each | 2    | 50          | 100.00       |
| (e)    | 10A, One way switch (modular type)                                                                                                                                                                                                   | Each | 40   | 35          | 1400.00      |
| (f)    | 10A, Uni D Socket with shutter(modular type)                                                                                                                                                                                         | Each | 40   | 55.00       | 2200.00      |
| (g)    | 20A, One way switch (modular type)                                                                                                                                                                                                   | Each | 10   | 65          | 650.00       |
| (h)    | 20A, 6 Pin socket with shutter (modular type)                                                                                                                                                                                        | Each | 10   | 105         | 1050.00      |
| (i)    | 6 Module base and cover plate                                                                                                                                                                                                        | Each | 40   | 75          | 3000.00      |
| (j)    | 6 Module plastic box                                                                                                                                                                                                                 | Each | 40   | 50          | 2000.00      |
| (k)    | 25 X 16 mm casing & capping (ISI Marked)                                                                                                                                                                                             | Mtr. | 100  | 27          | 2700.00      |
| 38     | Supply of 70 watt open construction HPSV/MH Ballast                                                                                                                                                                                  | Each | 40   | 510.00      | 20400.00     |
| 39     | Supplying of <b>MCB</b> , Single Pole, 'C' Series, 6-32 Amp, 10 KA.                                                                                                                                                                  |      |      |             |              |
| (a)    | 10 Amp                                                                                                                                                                                                                               | Each | 24   | 127         | 3048.00      |
| (b)    | 16 Amp                                                                                                                                                                                                                               | Each | 24   | 127         | 3048.00      |
| (c)    | 20 Amp                                                                                                                                                                                                                               | Each | 24   | 127         | 3048.00      |
| (d)    | 32 Amp                                                                                                                                                                                                                               | Each | 24   | 130         | 3120.00      |
| 40     | Supply of 200 Ltr. Non-metallic barrel suitable for transportation of diesel/oil with prior approval of EIC.                                                                                                                         | Each | 12   | 850         | 10200.00     |
| 41     | Supply of XLPE insulated and PVC sheathed , stranded Al. conductor, armoured cable of 1.1 KV grade, conforming to IS : 7098 (part-I) with upto date ammendment etc. as and when required                                             |      |      |             |              |
| (a)    | 3x1/2x25 sqmm                                                                                                                                                                                                                        | Mtr. | 100  | 140         | 14000.00     |
| (b)    | 3x1/2x50 sqmm                                                                                                                                                                                                                        | Mtr. | 100  | 175         | 17500.00     |
| 42     | Supply of Handle assembly suitable for 125/250A SFUs                                                                                                                                                                                 | Each | 4    | 190         | 760.00       |
| 43     | Supply of Handle assembly suitable for 32/63/100 A SFUs                                                                                                                                                                              | Each | 4    | 255         | 1020.00      |
| 44     | Supply of Electrical kettle 1.2 ltr capacity. Make Philips or euivalent with prior approval of Engineer-in-charge.                                                                                                                   | Each | 4    | 1500        | 6000.00      |
| 45     | Supply of following tools (Taparia):                                                                                                                                                                                                 |      |      |             |              |
| (a)    | Adjustable spanner with soft grip, length 255mm, product no. 1172-S-10                                                                                                                                                               | Each | 5    | 330         | 1650.00      |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                    | Unit | Qty.         | Rates (Rs.) | Amount (Rs.)      |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|-------------|-------------------|
| (b)    | Double ended spanner set with contents 6x7,8x9,10x11,12x13,14x15,16x17,18x19,20x22,21x23,24x27,25x28,30x32. product no. DEP-12                                                                                                                                                                                         | Each | 3            | 380         | 1140.00           |
| (c)    | Ring spanner set with contents 6x7,8x9,10x11,12x13,14x15,16x17,18x19,20x22,21x23,24x27,25x28,30x32. product no. 1812                                                                                                                                                                                                   | Each | 2            | 425         | 850.00            |
| (d)    | Long nose plier insulated with thick CA sleeve Product no. 1430-6/1430-6N                                                                                                                                                                                                                                              | Each | 5            | 210         | 1050.00           |
| (e)    | Heavy duty pipe wrench length 900mm,max opening 150mm, suitable for 5" pipe . Product no. HPW 36                                                                                                                                                                                                                       | Each | 2            | 1280        | 2560.00           |
| (f)    | Heavy duty pipe wrench length 450mm,max opening 73mm, suitable for 2.5" pipe . Product no. HPW 18                                                                                                                                                                                                                      | Each | 2            | 450         | 900.00            |
| (g)    | Combination Plier insulated with thick CA sleeve length 185 mm, Product no. 1621-7                                                                                                                                                                                                                                     | Each | 4            | 210         | 840.00            |
| 46     | Supply of industrial first Aid Kit Make : ST JOHNS First Aid Kits Pvt. Ltd. Or equivalent as per direction of EIC.                                                                                                                                                                                                     | Each | 2            | 2100        | 4200.00           |
| 47     | Supply of 50 W 12V Electronic Transformer suitable for Halogen Lamp Make : Phillips ETK 50                                                                                                                                                                                                                             | Each | 5            | 125         | 625.00            |
| 48     | Supply of Pole mounted Junction Box for road/street lighting suitable for 3 phase and neutral based lighting system for industrial applications complete along with bus bar clamps,insulating pads, nut bolts, clip etc as required. Make : Sintex model noGS JB 2520 (250 X 200 X 150mm)                              | Each | 25           | 1990        | 49750.00          |
| 49     | Supply of heat convactor with thermal fuse, cable and plugtop complete as required Make - Bajaj RX-8 or equivalent with approval of E-I-C.                                                                                                                                                                             | Each | 5            | 2050        | 10250.00          |
| 50     | Supply of wall mounted decorated luminaire suitable for 220 V 50 HZ complete with 18 watt CFL etc. as required. Make : Phillips - HWS360 IXPLC/P18 WGR or equivalent with approval of E-I-C.                                                                                                                           | Each | 10           | 1470        | 14700.00          |
| 51     | Supply of 1x36 watt fixture with suitable tube light which works on 220V and 50Hz frequency.                                                                                                                                                                                                                           | Each | 20           | 275         | 5500.00           |
| 52     | Supply of 500 V megger                                                                                                                                                                                                                                                                                                 | Each | 1            | 1500        | 1500.00           |
| 53     | supply of 3 phase, 4 wire static watt hour (energy) meter. (Make - L&T make model no. EM301 or equivalent)                                                                                                                                                                                                             | Each | 2            | 1700        | 3400.00           |
| 54     | Supply of 750 Watt capacity (2700 RPM) , dosing pump for RO plant which is suitable for 220 V, 50 Hz power supply (Make - Kirlosker's model type CHHOTU STAR or equivalent)                                                                                                                                            | Each | 1            | 7300        | 7300.00           |
| 55     | Supply of halogen room heater. ( Make : Bajaj, Usha, V-Guard or equivalent with prior approval of EIC).                                                                                                                                                                                                                | Each | 10           | 1000        | 10000.00          |
|        | <b>Total of SH-3</b>                                                                                                                                                                                                                                                                                                   |      |              |             | <b>1075065.00</b> |
|        | <b>SH-4 (CPWD DSR ITEMS)</b>                                                                                                                                                                                                                                                                                           |      |              |             |                   |
|        | <b>Miscellaneous Electrical works.</b>                                                                                                                                                                                                                                                                                 |      |              |             |                   |
|        | Execution of works as per CPWD schedule of work and specification for amount of Rs. 2,00,000/- as and when reqd.                                                                                                                                                                                                       |      |              |             |                   |
| 1      | Schedule of works 2018.<br>(Note :<br>1. The rate has been considered as per the DSR 2018 Rates after deducting indirect taxes from the DSR rates.<br>2. Agency will quote % above/below in "Rate Column" and accordingly will derive amount in "Amount Column" against Rs. 2,00,000/-(After deducting indirect taxes) | Job  | 1            | 100000      | 100000.00         |
|        | <b>Total of SH-4</b>                                                                                                                                                                                                                                                                                                   |      |              |             | <b>100000.00</b>  |
|        |                                                                                                                                                                                                                                                                                                                        |      |              |             |                   |
|        |                                                                                                                                                                                                                                                                                                                        |      |              |             |                   |
|        | <b>SUMMARY</b>                                                                                                                                                                                                                                                                                                         |      |              |             |                   |
|        | SUB HEAD-1                                                                                                                                                                                                                                                                                                             |      |              |             | 1682400.00        |
|        | SUB HEAD-2                                                                                                                                                                                                                                                                                                             |      |              |             | 193539.00         |
|        | SUB HEAD-3                                                                                                                                                                                                                                                                                                             |      |              |             | 1075065.00        |
|        | SUB HEAD-4                                                                                                                                                                                                                                                                                                             |      |              |             | 100000.00         |
|        |                                                                                                                                                                                                                                                                                                                        |      | <b>TOTAL</b> | Rs.         | <b>3051004.00</b> |
|        |                                                                                                                                                                                                                                                                                                                        |      | <b>Say</b>   | Rs.         | <b>3051004.00</b> |

**Note :** The rates are inclusive of all taxes, duties, Cess, fees, royalty charges etc. levied under any statute but exclusive GST (as applicable).

(K Santhosh Kumar)

Asstt. Gen. Mgr. (E-E)

AAI, NATS Complex