



भा.भा.वि.प्रा./मदुरै/इ (वि) /MDU-321/21-22
Ref: AAI/MDU/E-E/MDU-321/21-22

दि:/Date: 23.03.2022

सेवा में /To,

M/s. Chennai Engineering Services,
Plot No:30, Door No-1/536,
Krishna Nagar 1st Street,
Manapakkam,
Chennai - 600 125.
E-mail: chennaiengineering@hotmail.com

विषय/Sub : ARMO Works of E&M Installations during 2021-2022.
SH:Annual Rate Contract for Electrical installations at Madurai Airport -
reg.

संदर्भ/Ref:Your e-tender (Financial bid-2022 AAI 102653 1) Opened on
18.02.2022

महोदय/Dear sir(s),

- 1) Your e-tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the item rates quoted by you totaling to **Rs. 8,42,174.00** (Rupees Eight Lakh Forty Two Thousand One Hundred and Seventy Four Only) plus applicable GST which is 5.69% below the estimated cost put to tender of Rs. 8.93 Lakhs plus applicable GST.
- 2) Jt. General Manager (Engg-Elect.), Airports Authority of India, Madurai Airport, Madurai- 625 022, shall be the Engineer-In-Charge of the work. You are requested to attend the office of the Asst. General Manager (Engg-Elect.), AAI, Madurai Airport by **06.04.2022** 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). The tender document shall be downloaded and signed in each page which shall form part of the agreement. The entire cost towards stamp paper, down loading and printing tender document shall be borne by the contractor.
- 3) The Earnest Money Deposit to Rs 17,870(Rupees Seventeen thousand Eight hundred seventy only) received along with the tender will be treated and converted as part of security deposit as per relevant clause of GCC 2017 contract document. Please deposit Rs 66,347(Rupees Sixty six thousand three hundred forty seven only) towards security deposit within 10 days from the date of issue of this letter failing which, the same will be deducted from your bills.
- 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 Child Labour (Prohibition & Regulation) Act 1986, Construction Workers (Regulation of Employment and condition of Service) Act 1996, Building and other construction Workers Welfare Cess Act 1996 as specified in Clause 19 on page no.50 of GCC of tender and rules of Central and State Governments.

Contd....2



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA
(An ISO 9001:2008 and ISO 14001:2004 Certified Airport)

- 5) You are also directed to contact Manager (Engg-Elect)-II, AAI, Madurai Airport immediately who will arrange to handover the site to you.
- 6) Please note that the time allowed for carrying out the work which shall be **12 Months** and the same shall be reckoned from the 15th day of issue of this work order.
- 7) Any further correspondence in connection with the contract should normally be addressed to the Engineer-In-Charge.
- 8) Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith to the undersigned within (15) fifteen days from the date of issue of this award letter as a token of acceptance.
- 9) This work order is allotted the number MDU-321 which shall be quoted by you future correspondence in connection with this work Contract.
- 10) All other terms & conditions shall be as per tender document.

Encl: Schedule of Work

Yours faithfully,

Asst. General Manager (E-E),
For and on behalf of the Chairman
Airports Authority of India,
Madurai Airport.

Copy to:

INTERNAL

1. The General Manger (Engg.-Elect), AAI, SR, Chennai Airport.
2. The Airport Director, AAI, Madurai Airport.
3. The Jt. General Manager (E-E), AAI, Madurai Airport.
4. The Jt. General Manager (Vigilance), AAI, Southern Region, Chennai Airport.
5. The Jt. General Manager (E-C), AAI, Madurai Airport.
6. The Asst. General Manager (F&A), AAI, Madurai Airport -Financially concurred on 17.03.22 with reference to F.C. through e-file no. SR- 13018(38)/10/2022-APD-SR-MADURAI (Computer No. 139121).
7. The Manager (E-E)-I/II, AAI, Madurai Airport.
8. Agreement copy.

Asst. General Manager (Engg -E)
For and on behalf of the Chairman
Airports Authority of India ,Madurai Airport

Validate

Print

Help

Item Rate BoQ

Tender Inviting Authority: AIRPORTS AUTHORITY OF INDIA

Name of Work: ARMO Works of E&M Installations during 2021-22. SH: Annual Rate Contract for Electrical installations at Madurai Airport.

Contract No: AAI/MDU/E-E/MDU-321/NIT-10/2021-22

Contract No: AAI/MDG/E-E/MDG-32/INT-10/2021-22						
Name of the Agency	M/s. CHENNAI ENGINEERING SERVICES					
PRICE SCHEDULE						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	Execution of works as per CPWD Delhi Schedule of Rate (E&M) 2018 as and when required for attending breakdowns, repair & maintenance and upkeep of internal and external electrical installations as per direction of E-I-C at different locations in operational area/ office building/ ancillary building/ Terminal Building / Power houses/ Barracks/ Quarters/City Side areas etc. complete as per the special Terms and Conditions in addition to General Terms and Condition of Contract as required. The bidder shall quote the rate in INR only for the job corresponding to Rs.100,000/-and percentage(%) above/below shall be calculated by AAI and paid accordingly. (The quoted rate shall be excluding GST) Note: if the bidder is desired to quote 5% above on DSR-2018 rates, the rate column shall be filled as Rs. 1,05,000/- if desired to quote 5% below on DSR-2018 rates, the rate column shall be filled as Rs.95000/- Rate of DSR items shall be calculated by deducting GST component from schedule rate on account of GST	1	Job/Year	109999.00	109999.00	INR One Lakh Nine Thousand Nine Hundred & Ninety Nine Only
2	Detection of LT cable faults like open circuit, Earth fault etc using portable fault locator machine on the route of the under ground cable and locate the fault at Pin Pointing including excavation of soil etc. (Repeated faults with in the closed proximity of the same cable will be counted as single fault only as decided by E-I-C) as per particular specifications	3	Job	24999.00	74997.00	INR Seventy Four Thousand Nine Hundred & Ninety Seven Only

3	Lifting and lowering of Under ground Borewell submersible pump motor of capacity 6HP to 10HP from borewell depths upto 600ft including disconnecting pipe line, flat cable, dismantling the defective motor pump set and reinstalling with the repaired motor and pump set on urgent basis with in short notice complete as required.	3	Job	9899.00	29697.00	INR Twenty Nine Thousand Six Hundred & Ninety Seven Only
4	Dismantling and rewinding of 6HP submersible motor pump sets with original no of turns and same wire gauge insulated copper wire including replacement of all the internal worn out / defective parts i.e bushes, impellers, sleeves, upper and lower bush sets, thrust bearing, oil seals, rotor grinding and balancing, assembling, transportation to workshop & Back and reinstallation i/c testing & commissioning complete as required. (Dismantled copper wire & defective parts need not to return)	1	Job	11019.00	11019.00	INR Eleven Thousand & Nineteen Only
5	Dismantling and rewinding of 7.5HP submersible motor pump sets with original no of turns and same wire gauge insulated copper wire including replacement of all the internal worn out / defective parts i.e bushes, impellers, sleeves, upper and lower bush sets, thrust bearing, oil seals, rotor grinding and balancing, assembling, transportation to workshop & Back and reinstallation i/c testing & commissioning complete as required. (Dismantled copper wire & defective parts need not to return)	1	Job	13729.00	13729.00	INR Thirteen Thousand Seven Hundred & Twenty Nine Only
6	Dismantling and rewinding of 10HP submersible motor pump sets with original no of turns and same wire gauge insulated copper wire including replacement of all the internal worn out / defective parts i.e bushes, impellers, sleeves, upper and lower bush sets, thrust bearing, oil seals, rotor grinding and balancing, assembling, transportation to workshop & Back and reinstallation i/c testing & commissioning complete as required. (Dismantled copper wire & defective parts need not to return)	1	Job	16299.00	16299.00	INR Sixteen Thousand Two Hundred & Ninety Nine Only
7	Rewinding of following fans working on single phase 230 V, 50HZ with suitable size super enameled electrical grade copper wire and insulation ,replacement of wornout bearings & bushes etc i/c dismantling , making arrangement for transportation to workshop and reinstallation of the same at site complete as required (Dismantled copper wire & defective parts need not to return) Ceiling fan of all makes and models.	10	Job	859.00	8590.00	INR Eight Thousand Five Hundred & Ninety Only

8	Rewinding of following fans working on single phase 230 V, 50HZ with suitable size super enameled electrical grade copper wire and insulation ,replacement of wornout bearings & bushes etc i/c dismantling , making arrangement for transportation to workshop and reinstallation of the same at site complete as required (Dismantled copper wire & defective parts need not to return) Wall Mounted fans/Pedestal fans/Exhaust fans of all makes & models upto 300mm sweep	10	Job	1109.00	11090.00	INR Eleven Thousand &Ninety Only
9	Repairing & servicing of Hand dryers of various makes through authorized dealer/ specialized agency including replacement of wornout parts like sensors, heating element, blowers etc. complete as required.	5	Job	1639.00	8195.00	INR Eight Thousand One Hundred & Ninety Five Only
10	Repairing of Unserviceable Winch gear assembly of the 25Mtr High mast i/c replacement of defective parts such as shaft, bearing, oil seals and filling up with lubricating oil , complete overhauling of the system etc.,to & fro transportation to workshop and refixing the winch gear assembly in the Mast i/c testing and commissioning etc. as required.	1	Job	95999.00	95999.00	INR Ninety Five Thousand Nine Hundred & Ninety Nine Only
11	Supply of 8C x 2.5Sqmm copper conductor, EPR insulated, PC tape, PCP outer sheathed Elastometric Rubber cable of 1.1KV grade for use in highmasts as trailing cable.	50	Mtr	499.00	24950.00	INR Twenty Four Thousand Nine Hundred & Fifty Only
12	Replacing the faulty trailing cable in the existing 30mtr installed high mast at Apron with new 8C X 2.5 sq.mm trailing cable (Cable will be provided by AAI) and making the high mast in good working condition etc. complete as required.	1	Job	7499.00	7499.00	INR Seven Thousand Four Hundred & Ninety Nine Only
13	Retrieving of existing 5KV grade Airfield cables upto 25sqmm from the underground trench which includes excavation of earth, removing of brick protection & cable, refilling the trench and restoring the surface etc as required.	100	Mtrs	139.00	13900.00	INR Thirteen Thousand Nine Hundred Only
14	Retrieving of following size 1.1KV grade power cables from the underground trench which includes excavation of earth, removing of brick protection & cable, refilling the trench and restoring the surface etc as required. 185Sq.mm to 240Sq.mm	100	Mtrs	249.00	24900.00	INR Twenty Four Thousand Nine Hundred Only
15	Laying of 50mm dia HDPE pipe / DWC HDPE pipe direct in ground below 75cm in all types of soil including excavation and refilling the trench but excluding sand cushioning and protective covering etc complete as required.	100	Mtrs	129.00	12900.00	INR Twelve Thousand Nine Hundred Only

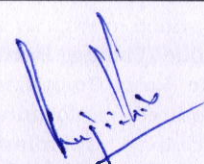
16	Servicing , Overhauling and testing of 4 pole, 415 volts, 800Amps Manual charged Air circuit breakers (L&T Make, Model No. CN-CS-800) including checking breaker operations ,control wiring and fault rectifications etc along with lubrication of moveable parts, cleaning of jaw contacts, sparking chambers and submission of test/servicereports from OEM/Authorized dealer / Specialized agency etc. complete as required but without spare parts as per site conditions.	2	Nos	2999.00	5998.00	INR Five Thousand Nine Hundred & Ninety Eight Only
17	Servicing , Overhauling and testing of 4 pole, 415 volts, 630Amps Manual charged Air circuit breakers (L&T Make, Model No. CN-CS-630) including checking breaker operations control wirings and fault rectifications etc along with lubrication of moveable parts, cleaning of jaw contacts, sparking chambers and submission of test/servicereports from OEM/Authorized dealer / Specialized agency etc. complete as required but without spare parts as per site conditions.	2	Nos	2999.00	5998.00	INR Five Thousand Nne Hundred & Ninety Eight Only
18	Servicing , Overhauling and testing of 4P, 415V, 1250A motorised/ manual charged Air Circuit Breakers (GE Make, Model No. Spectronic S1250) including checking breaker operations, control wirings and fault rectification etc alongwith lubrication of moveable parts, cleaning of jaw contacts, sparking chambers etc. and submission of test/servicereports from OEM/Authorized dealer / Specialized agency etc. complete as required but without spare parts as per site conditions	17	Nos	2499.00	42483.00	INR Forty Two Thousand Four Hundred & Eighty Three Only
19	Servicing , Overhauling and testing of 4P, 415V, 2000A motorised/ manual charged Air Circuit Breakers (GE Make, Model No. Spectronic S2000) including checking breaker operations, control wirings and fault rectification etc alongwith lubrication of moveable parts, cleaning of jaw contacts, sparking chambers etc. and submission of test/servicereports from OEM/Authorized dealer / Specialized agency etc. complete as required but without spare parts as per site conditions	3	Nos	2499.00	7497.00	INR Seven Thousand Four Hundred & Ninety Seven Only
20	Servicing , Overhauling and testing of 4P, 415V, 2500A motorised/ manual charged Air Circuit Breakers (GE Make, Model No. Spectronic S2500) including checking breaker operations, control wirings and fault rectification etc alongwith lubrication of moveable parts, cleaning of jaw contacts, sparking chambers etc. and submission of test/servicereports from OEM/Authorized dealer / Specialized agency etc. complete as required but without spare parts as per site conditions.	5	Nos	2999.00	14995.00	INR Fourteen Thousand Nine Hundred & Ninety Five Only

21	Servicing , overhauling and testing of 11KV ,800A OCB by cleaning,tightening ,greasing ,oiling i/c filtration and determination of dielectric strength & acidity of insulating oil as per IS 692 with the help of high vacuum filtering machine etc complete as required.	3	Nos	7999.00	23997.00	INR Twenty Three Thousand Nine Hundred & Ninety Seven Only
22	Servicing , Overhauling and testing of 11KV, 800A VCBs of various makes including checking breaker operations ,control wirings , cleaning of contact surfaces, overhauling of operating mechanism, lubrication of moving parts, sparking chambers etc and submission of test /service reports from OEM/ Authorised dealer /Specialized agency complete as required as per site conditions.	9	Nos	7999.00	71991.00	INR Seventy One Thousand Nine Hundred & Ninety One Only
23	Testing ,Servicing, adjustment, calibration of Digital Luxmeter including submission of calibration certificate from the NABL accredited Laboratory etc as complete as required.	1	Job	1499.00	1499.00	INR One Thousand Four Hundred & Ninety Nine Only
24	Dehydration and filtration of transformer oil of following transformers through Centrifugal oil Purifier/ sprinkler machine and heating arrangement to attain BDV of 50KV per Minute including topping up of oil if required and submission of test reports for BDV test and Acidity test before and after dehydration work. complete as required. 400KVA, 11KV/433V Transformer	1	Job	2499.00	2499.00	INR Two Thousand Four Hundred & Ninety Nine Only
25	Dehydration and filtration of transformer oil of following transformers through Centrifugal oil Purifier/ sprinkler machine and heating arrangement to attain BDV of 50KV per Minute including topping up of oil if required and submission of test reports for BDV test and Acidity test before and after dehydration work. complete as required. 500KVA, 11KV /433V Transformer	1	Job	2999.00	2999.00	INR Two Thousand Nine Hundred & Ninety Nine Only
26	Dehydration and filtration of transformer oil of following transformers through Centrifugal oil Purifier/ sprinkler machine and heating arrangement to attain BDV of 50KV per Minute including topping up of oil if required and submission of test reports for BDV test and Acidity test before and after dehydration work. complete as required. 1600KVA, 11KV /433V Transformer	3	Job	4999.00	14997.00	INR Fourteen Thousand Nine Hundred & Ninety Seven Only
27	Arresting of Oil Leakages in 1600KVA Transformers by changing gasket, Oil Seal, Checking of tightness of HV/LV Bushings, bolts and nuts including opening of top Cover, draining of Oil, refilling the Oil after filtration and closing of top Cover etc., as required.	3	Job	9999.00	29997.00	INR Twenty Nine Thousand Nine Hundred & Ninety Seven Only

28	Calibration of Relays [(Electro-Mechanical/ Static/ Digital/ Microprocessor Based Relays)-(O/C ,E/F,Reverse power)] provided in various HT/LT Panels, Testing of Insulation Values, Pick-up Value, Timing, Burden, etc., i/c adjustment of Settings if required at site, Relay Co-ordination with immediate Up and Down Circuit etc., as required, conforming to IS 9124 - 1979 by Secondary Injection Test including submission of reports as required. Over Current relay	9	Nos	999.00	8991.00	INR Eight Thousand Nine Hundred & Ninety One Only
29	Calibration of Relays [(Electro-Mechanical/ Static/ Digital/ Microprocessor Based Relays)-(O/C ,E/F,Reverse power)] provided in various HT/LT Panels, Testing of Insulation Values, Pick-up Value, Timing, Burden, etc., i/c adjustment of Settings if required at site, Relay Co-ordination with immediate Up and Down Circuit etc., as required, conforming to IS 9124 - 1979 by Secondary Injection Test including submission of reports as required. Earth fault relay	9	Nos	999.00	8991.00	INR Eight Thousand Nine Hundred & Ninety One Only
30	Calibration of Relays [(Electro-Mechanical/ Static/ Digital/ Microprocessor Based Relays)-(O/C ,E/F,Reverse power)] provided in various HT/LT Panels, Testing of Insulation Values, Pick-up Value, Timing, Burden, etc., i/c adjustment of Settings if required at site, Relay Co-ordination with immediate Up and Down Circuit etc., as required, conforming to IS 9124 - 1979 by Secondary Injection Test including submission of reports as required. Over current & Earth fault relay	5	Nos	999.00	4995.00	INR Four Thousand Nine Hundred & Ninety Five Only
31	Calibration of Relays [(Electro-Mechanical/ Static/ Digital/ Microprocessor Based Relays)-(O/C ,E/F,Reverse power ,)] provided in various HT/LT Panels, Testing of Insulation Values, Pick-up Value, Timing, Burden, etc., i/c adjustment of Settings if required at site, Relay Co-ordination with immediate Up and Down Circuit etc., as required, conforming to IS 9124 - 1979 by Secondary Injection Test including submission of reports as required. Reverse power relay	4	Nos	999.00	3996.00	INR Three Thousand Nine Hundred & Ninety Six Only
32	Calibration of Relays [(Electro-Mechanical/ Static/ Digital/ Microprocessor Based Relays)-(UV/OV/Auxiliary/Tripping/Auxiliary/Feeder protection /Master trip)] provided in various HT/LT Panels, Testing of Insulation Values, Pick-up Value, Timing, Burden, etc., i/c adjustment of Settings if required at site, Relay Co-ordination with immediate Up and Down Circuit etc., as required, conforming to IS 9124 - 1979 by Secondary Injection Test including submission of reports as required. Master trip relay	3	Nos	999.00	2997.00	INR Two Thousand Nine Hundred & Ninety Seven Only

33	Calibration of Relays [(Electro-Mechanical/ Static/ Digital/ Microprocessor Based Relays)-(UV/OV/Auxiliary/Tripping/Auxiliary/Feeder protection /Master trip)] provided in various HT/LT Panels, Testing of Insulation Values, Pick-up Value, Timing, Burden, etc., i/c adjustment of Settings if required at site, Relay Co-ordination with immediate Up and Down Circuit etc., as required, conforming to IS 9124 - 1979 by Secondary Injection Test including submission of reports as required. Auxiliary relay	8	Nos	699.00	5592.00	INR Five Thousand Five Hundred & Ninety Two Only
34	Calibration of Relays [(Electro-Mechanical/ Static/ Digital/ Microprocessor Based Relays)-(UV/OV/Auxiliary/Tripping/Auxiliary/Feeder protection /Master trip)] provided in various HT/LT Panels, Testing of Insulation Values, Pick-up Value, Timing, Burden, etc., i/c adjustment of Settings if required at site, Relay Co-ordination with immediate Up and Down Circuit etc., as required, conforming to IS 9124 - 1979 by Secondary Injection Test including submission of reports as required. Under voltage relay/Overvoltage relay.	14	Nos	699.00	9786.00	INR Nine Thousand Seven Hundred & Eighty Six Only
35	Calibration of Relays [(Electro-Mechanical/ Static/ Digital/ Microprocessor Based Relays)-(UV/OV/Auxiliary/Tripping/Auxiliary/Feeder protection /Master trip)] provided in various HT/LT Panels, Testing of Insulation Values, Pick-up Value, Timing, Burden, etc., i/c adjustment of Settings if required at site, Relay Co-ordination with immediate Up and Down Circuit etc., as required, conforming to IS 9124 - 1979 by Secondary Injection Test including submission of reports as required. Trip circuit supervision relay/Tripping relay	12	Nos	899.00	10788.00	INR Ten Thousand Seven Hundred & Eighty Eight Only
36	Supply of Transformer oil conforming to IS335/1983 for topping up of oil for transformer during filtration of oil as required.	150	Ltrs	119.00	17850.00	INR Seventeen Thousand Eight Hundred & Fifty Only
37	Supply and replacing of Silica Gel in all types of breathers installed in Distribution transformers of ratings upto 1600KVA ,at various locations as required.	5	Job	499.00	2495.00	INR Two Thousand Four Hundred & Ninety Five Only
38	Supply of form-C type control relay module / Signalling device compatible for existing Edwards make EST 3 addressable fire alarm system (Model no. SIGA-CR or equivalent).	10	Nos	3699.00	36990.00	INR Thirty Six Thousand Nine Hundred & Ninety Only

39	Repairing of existing earth pits including providing and fixing of CI cover plate, funnel, reducer and masonry works as required, Marking with paint on earth pits as directed by AAI including continuity check and recording the earth resistance of earth electrode as required complete in all respects and submitting test reports to AAI.	10	Job	3999.00	39990.00	INR Thirty Nine Thousand Nine Hundred & Ninety Only
Total in Figures					842174.00	INR Eight Lakh Forty Two Thousand One Hundred & Seventy Four Only
Quoted Rate in Words		INR Eight Lakh Forty Two Thousand One Hundred & Seventy Four Only				


 Asst. General Manager(E-E)
 AAI, Madurai Airport

Signature Not Verified

Digitally signed by V RAJITH
 Date: 2022.05.04 15:35:46 IST
 Location: eProcurement System for Central PSUs

