



भारतीयविमानपत्तनप्राधिकरण AIRPORTS AUTHORITY OF INDIA



Ref.No. AAI/RJY/ENGG (E)/ AMC E&M /2022-23/169-179

Date: 07.04.2022

To,
M/s. Manish Electricals,
Kalapana Nagar,
C P colony,
Near 7 No Chouraha Morar,
Gwalior – 474 006.
Email:- manishelectricals21@gmail.com

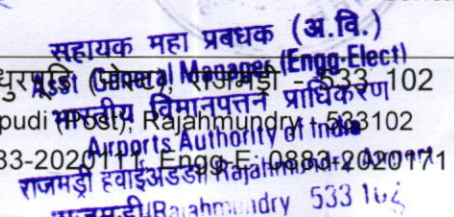
Name of work : ARMO of E & M Installations at Rajahmundry Airport for the Year 2022-23.
Sub Head : Annual Operation & Maintenance Contract for E&M Installation and Other Allied Works at Rajahmundry Airport for Two Years. (Year 2022-24)
Reference : Your financial bid (Envelope-II) opened on Dt.07.04.2022. (Tender ID: 2021_AAI_108196_1)

Dear Sir,

1. Your tender for the work mentioned above is hereby accepted on behalf of the Chairman, Airports Authority of India, at the item rates quoted by you totaling to ₹ **1,78,24,624/- (Rupees One Crore Seventy Eight Lakhs Twenty Four Thousand Six Hundred and Twenty Four Only)** (Excluding GST, Bonus and Employer share of EPF & ESI) which is 11.41% below the justified cost of ₹ 2,01,19,654/- (Two Crore One Lakh Nineteen Thousand Six Hundred and Fifty Four Only).
2. Asst. General Manager (Engg-Elect), AAI, Rajahmundry Airport shall be the Engineer-in-Charge of the work. You are requested to attend this office of Asst. General Manager (Engg-E), AAI, Rajahmundry Airport, Rajahmundry by 21.04.2022 to sign and complete the contract agreement. The contract agreement shall be executed on a Non-Judicial stamp paper of value ₹100/- (Rupees One Hundred Only) and the cost of the stamp papers shall be borne by you.
3. Please deposit ₹**17,82,462/-** (Rupees Seventeen Lakh Eighty Two Thousand Four Hundred and Sixty Two Only) towards security deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted from yours running bills as per condition of clause 1A of GCC of contract document.
4. You are requested to comply with the provisions of Contract Labour (Regulation and Abolition) Act of 1970 and Contract Labour (Regulation and Abolition) Central Rules 1971, Child Labour (Prohibition & Regulation) Act 1986, construction Works (Regulation of employment and conditions of service) Act 1996, Building and other construction workers welfare cess Act 1996 as specified in Clause-19 on GCC and minimum wages Act 1948, and Employees Provident Fund & Misc. Provision Act, 1952 and ESI Act, 1948 as specified in Clause -20 of GCC of tender and rules thereof Central and State Governments.
5. You are also directed to contact Manager-II (Engg-Elect), AAI, Rajahmundry Airport immediately who will arrange to hand over the site to you.

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विमानपत्तन निदेशिका केड्यालय राजमंड्रीहवाई अड्डा, मधुरापुडी (ओएस) राजमंड्री - 533 102
O/o The Airport Director, Rajahmundry Airport, Madhurapudi (Post), Rajahmundry - 533 102
टेली फैक्स - 0883-2487852, दूरभाष /Phone:- 0883-2020111, Engg-E: 0883-2020171
राजमंड्री हवाई अड्डा, राजमंड्री - 533 102





भारतीयविमानपत्तनप्राधिकरण AIRPORTS AUTHORITY OF INDIA

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6. Please note that the time allowed for carrying out the work shall be **24(Twenty Four) Months** and same shall be reckoned from the date **01.05.2022**.
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 after signing it to the undersigned as a token of acceptance.

भवदीय/Yours truly,

अनुलग्नक/Encl: Schedule of Quantities.

(एम. मुत्थमिलन/ M. MUTHAMILAN)

सहायक महाप्रबंधक (अभि-वि)/ Asst. General Manager (Engg-E)
भा.वि.प्रा.राजमंड्री हवाई अड्डा/AAI, Rajahmundry Airport
अध्यक्ष के लिए एवं की ओर से/For & On Behalf of The Chairman
भारतीय विमानपत्तन प्राधिकरण/Airports Authority of India.

NOO:-

Copy to :

External

- 1) GM(Engg), AAI, S/R, Chennai Airport, Chennai
- 2) GM(Finance), S/R, Chennai Airport, Chennai
- 3) Jt.GM (Engg-E), AAI, Vijayawada Airport, Vijayawada.
- 4) Jt.GM (Vigilance), AAI, S/R, Chennai Airport, Chennai
- 5) Labour Enforcement Officer (Central), Sr.SE/Tele. Building, Railway Station Premises, Rajahmundry-533101, E.G.Dt.,

Internal:

- 1) Airport Director, AAI, Rajahmundry Airport, Rajahmundry.
- 2) Manager (F&A), AAI, Rajahmundry Airport, Rajahmundry.
- 3) Manager-II (Engg-E), AAI, Rajahmundry Airport, Rajahmundry.
- 4) Supervisor (Engg-E), AAI, Rajahmundry Airport, Rajahmundry.
- 5) Concerned File.

सहायक महा प्रबंधक (अ.वि.)
Asst General Manager (Engg-Eler)
भारतीय विमानपत्तन प्राधिकरण
Airports Authority of India
राजमंड्री हवाईअड्डा/ Rajahmundry Airport
राजमंड्री/Rajahmundry 533 102

(एम. मुत्थमिलन/ M. MUTHAMILAN)

सहायक महा प्रबंधक (अभि-वि)/ Asst. General Manager (Engg-E)



सहायक महा प्रबंधक (अ.वि.)
Asst General Manager (Engg-E)
भारतीय विमानपत्तन प्राधिकरण
Airports Authority of India
राजमंड्री हवाईअड्डा/ Rajahmundry Airport
राजमंड्री/Rajahmundry 533 102

विमानपत्तननिदेशककार्यालय, राजमंड्रीहवाईअड्डा, मधुरपूडि, पोस्ट, राजमंड्री 102 533 -

O/o The Airport Director, Rajahmundry Airport, Madhurapudi (Post), Rajahmundry - 102 533

दूरभाषा /Phone: 0883 - 2020111, टेलीफैक्स Tele /- FAX: 0883 - 2487852

Schedule of Quantities

Name of Work: ARMO of E&M Installations at Rajahmundry Airport for the year 2021-22.

Sub Head: Operation & Comprehensive Maintenance Contract for 3x140 TR Central Air - Conditioning System, AC Units, Water Coolers and Purifiers at Rajahmundry Airport for Two Years (2021-2023)

Sl. No.	Description of item	Unit	Qty	Rate (Ex.GST)	Amount (Ex.GST)	Remarks
1	SH:I - Job Contract for Operation & Maintenance of E&M Installations. Operation and Maintenance Contract of Preventive/breakdown maintenance, repair and operation of Electrical & Mechanical installations of 11 KV / 415 V sub station, HT and LT distribution panels, AMF Panels, UPS System, Battery Charger, operation of DG sets, Electrical Installation of terminal building, ATC cum technical block and operational area NAVAIDS, complete GLF System (CCR, Runway & Taxiway Lighting, PAPI and Approach lighting System), Street light/parking lights/high mast/flag high mast, maintenance of earth pits, Apron light and perimeter lighting, operations and maintenance of Hydro Pneumatic Water Supply System, Fire Alarm & Fire Hydrant System, Sewerage treatment plant (STP), Elevators etc etc. attending day to day complaints/faults/breakdowns and taking rectification action, ensuring serviceability/satisfactory working condition of the systems. Maintenance of records/documentation etc. covered under this contract on all days including Sunday and holidays as per Special Conditions of Contract.	Month	24	664201.00	15940824.00	
2	SH:II - CMC Of Addressable and Conventional Fire Alarm System Annual Comprehensive maintenance contract of addressable and conventional fire alarm system, detection control panels, repeater panels of Edward EST-3, & Globe GE:8001N, Agni makes & capacity installed in Terminal Building, ATC cum Technical Block, Ancillary Building, Power house, DVOR, NDB etc.. Maintenance & upkeeping of all type of smoke detectors, heat detectors, response indicators, beam detector, manual call points, control modules, circuit isolators, multi criteria detectors, monitor module, hooters, Autodialer, detector with sounder base including associated wiring work upto main fire control panel installed at various locations of Terminal Building, ATC cum Technical Block, Ancillary Building, Power house, DVOR, NDB. The work includes periodical checking / testing, servicing, maintaining records, attending breakdown calls as detailed in the special conditions of the contract, particular specification etc. complete as required. (Note: Agency has to provide certified engineer for quarterly service visit of addressable/conventional fire alarm system for complete check of intelligent fire alarm and detection system and rectification of all type of faults complete as required including software up-dation. The engineer has to submit quarterly service reports.)	Month	24	19000.00	456000.00	
3	Repairing, servicing of sluice/ butterfly valves/ NRV/gate valve etc. of different sizes provided in the fire system at various locations of fire hydrant and sprinkler system as required. (Item will be executed only if required)	Job	5	2000.00	10000.00	
4	Repairing & servicing of following capacity pump sets after dismantling and providing all necessary defective/worn out parts such as nut-bolts, rubber gasket gland dori, rubber coupling, suitable bearings etc. and re-assembling the pump, making the pump set perfect working condition as per good engineering practice complete in all respect as required at site. (Item will be executed only if Required)					
4.01	Jockey Pump set (Make: CG, 7.5KW/10 HP, Pump: Mather & Platt 12 m ³ /hr)	Job	1	10000.00	10000.00	
4.02	Hydrant pump set (Make: CG, 45KW/60HP, Pump: Mather & Platt 130 m ³ /hr)	Job	1	15000.00	15000.00	
5	Supply of Non-Return valve (dual type wafer plate NRV) of following size including bolt, nut, washers and rubber gasket as required:-					
5.01	150 mm dia	Each	2	6000.00	12000.00	
5.02	65 mm dia	Each	1	4000.00	4000.00	



सहાયक महा प्रबन्धक (अ.वि.)
 Asst General Manager (Engg-Elec.)
 भारतीय विमानपत्तन प्राधिकरण
 Airports Authority of India
 राजमंड्री विमानपत्तन
 Rajahmundry Airport
 533 102

Sl. No.	Description of item	Unit	Qty	Rate (Ex.GST)	Amount (Ex.GST)	Remarks
6	Supply of cast iron ball type foot valve for installation at the bottom of pump suction line (inside the tank) of the following sizes					
6.01	150 mm dia	Each	2	5000.00	10000.00	
6.02	65 mm dia	Each	1	4000.00	4000.00	
7	Supply of 12 volt, 7 AH sealed maintenance free battery for fire alarm panels	Each	8	1500.00	12000.00	
8	SH:III - Maintenance Of 60KLD STP Carrying out proper cleaning of raw sewage sump, aeration tanks, settling tanks and chlorine contact tanks etc. of 60 KLD STP Plant to ensure smooth operation of the plant and activity time schedule shall be submitted to AAI before planning the cleaning of tanks to avoid hampering of terminal operations etc. complete as required.	Job	2	15000.00	30000.00	
9	Supply and replacement of Filter Media as required for pressure sand filter & active carbon filters of 60 KLD Sewage Treatment plant as specified in the special conditions of the contract etc. complete as required.	Job	1	30000.00	30000.00	
10	Supply of following Chemicals for day to day operation of Sewage Treatment Plant & as and when required.					
10.01	Liquid Chlorine	Ltrs	100	30.00	3000.00	
10.02	Bleaching powder	Kg	10	100.00	1000.00	
11	Testing of treated water sample for PH, Total Suspended solids(in mg/L), Biochemical Oxygen Demand(BOD) (in mg/L), Chemical Oxygen Demand(COD) (in mg/L), Oil & Grease (in mg/L) and Total Residual chlorine(CI2) (in mg/L) from NABL accredited lab in quarterly basis and submission of test analysis reports as per norms of statutory authority as required.	Job	8	2000.00	16000.00	
12	Supply of 75 mm size PVC Ball Valve for Water Supply line	Each	6	400.00	2400.00	
13	Supply of 50mm size PVC Non Return Valve (NRV) for Water Supply line	Each	2	200.00	400.00	
14	Repair, Rewinding and servicing of following capacity 415Volt 50 Hz AC supply of 60 KLD Sewage treatment plant pump motors/submersible pump, Job include transportation of motor dismantling and rewinding with the same gage 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, testing, transportation etc. complete as required.					
14.01	1HP/1.5 HP	Job	6	3000.00	18000.00	
14.02	5HP	Job	2	4500.00	9000.00	
15	SH:IV - Filtration of Transformer Oil and Servicing of HT LT Breakers etc. Testing of transformer oil sample including conducting BDV test & acidity test in reputed Govt. approved labs and producing test report etc complete as required.(02 No.of 1250 KVA Transformers: Total Qty:02)					
15.01	For First Year (Rate per Transformer per Year)	Job	2	5000.00	10000.00	
15.02	For Second Year (Rate per Transformer per Year)	Job	2	5000.00	10000.00	
16	Filtration of transformer oil to attain acceptable di-electric strength by hot streamline process including arranging plant, transportation etc. complete as required installed at Rajahmundry Airport including submission of test reports before & after dehydration of oil. (Item is to be executed if the BDV value of transformer oil is found below the stipulated value).					
16.01	For First Year	Litres	1550	10.00	15500.00	
16.02	For Second Year	Litres	1550	10.00	15500.00	



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Asst General Manager (Engg.)
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Airports Authority of India
राजमंड्री हवाईअड्डा/ Rajahmundry Airport
राजमंड्री/Rajahmundry 533 1

Sl. No.	Description of item	Unit	Qty	Rate (Ex.GST)	Amount (Ex.GST)	Remarks
17	Calibration & discrimination of different types of relays in the existing LT Panel board like IDMT relay, master trip relay, reverse power relay, over current/earth fault relays including submitting test certificates by OEM Service dealers/ Government Approved Agencies etc complete as required.					
17.01	For First Year	Each	16	3500.00	56000.00	
17.02	For Second Year	Each	16	3500.00	56000.00	
18	Inspection, servicing and testing of 2x1250 KVA distribution transformer 11 kv/ 433 V i/c carrying out the following tests and submitting test reports by OEM Service dealers/Government Approved Agencies etc complete as required. a) General inspection b) IR value test primary to secondary, primary to earth , secondary to earth c) Voltage ratio check at all tap position, d) Bucholtz relay operation e) OTI operation f) WTI operation g) Tap changer operation Check h) Cleaning of transformer and replacement of silica gel i) Calibration & discrimination of different types of relays in the existing 11KV HT Panel(total 05 No. of feeders) board like master trip relay, IDMT/over current/earth fault relays including submitting test certificates by OEM Service dealers/ Government Approved Agencies etc complete as required.					
18.01	For First Year	Job	1	12000.00	12000.00	
18.02	For Second Year	Job	1	12000.00	12000.00	
19	Supply and Topping up the transformer oil in conservator tank upto a required level with new treated transformer oil (As per IS and approved make) as and when required.	Liters	500	150.00	75000.00	
20	Supply and replacement of silica gel blue of breather units of transformers as required	Kg	8	500.00	4000.00	
21	Servicing, Checking and Testing of the following Make & Capacity LT Air circuit breakers(ACB) through OEM/ authorised service agency of OEM as per recommended standards and submission of test report to AAI complete as required. (Job includes calibration of inbuilt over current/earth fault relay, checking of internal wiring of ACB and Panel and taking corrective action for proper operation of breaker/panel including minor repairing works and supply of the consumables.)					
21.01	2000 A, Make: L& T , 4 pole , Model: U power Omega	Each	3	8000.00	24000.00	
21.02	1250 A, Make: L& T , 3/4 pole , Model: U power Omega	Each	20	8000.00	160000.00	
22	Breakdown Service visits for attending complaints of L&T Make 1250/2000 A LT Air circuit breakers(ACB) against AAI calls including replacement of defective parts etc. complete as required.(Spares shall be provided by AAI)					
22.01	For First Year	Visit	2	8000.00	16000.00	
22.02	For Second Year	Visit	2	8000.00	16000.00	
23	Servicing, Checking, Inspection, Repairing, overhauling and testing of Jyoti Make & Capacity ,type PH-700,12KV,800A HT Vacuum Circuit Breaker (VCB) through OEM/ authorised service agency of OEM as per recommended standards and submission of test report to AAI complete as required. (Job includes checking of internal wiring of VCB and Panel and taking corrective action for proper operation of breaker/panel including minor repairing works and supply of the consumables.)					
23.01	1st Year (Rate per VCB per Year)	Each	5	7000.00	35000.00	
23.02	2nd Year (Rate per VCB per Year)	Each	5	7000.00	35000.00	



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Airports Authority of India
राजमंड्री हवाई अड्डा/ Rajahmundry Airport
Rajahmundry 533 102

Sl. No.	Description of item	Unit	Qty	Rate (Ex.GST)	Amount (Ex.GST)	Remarks
24	Breakdown Service visits for attending complaints of Jyoti Make & Capacity ,type PH-700,12KV,800A HT Vacuum Circuit Breaker (VCB)against AAI calls including replacement of defective parts etc. complete as required.(Spares shall be provided by AAI)					
24.01	For First Year	Each	1	7000.00	7000.00	
24.02	For Second Year	Each	1	7000.00	7000.00	
25	SH:V - Servicing of E & M Installations Rewinding, servicing, repairing of ceiling fan / wall fan / Exhaust fan including replacement of wornout / defective parts like bearings, capacitors etc., i/c transportation from site to workshop & back to site. (Dismantled Material belongs to contractor)	Job	20	400.00	8000.00	
26	servicing, repairing of fully automatic sensor type hand dryers including replacement of wornout / defective parts like sensors, i/c transportation from site to workshop & back to site. (Dismantled Material belongs to contractor)	Job	10	1000.00	10000.00	
27	Repair and rewinding of submersible pump motor set of above 2 HP and upto 10 HP Job include transportation of motor dismantling and rewinding with the same gage 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, testing, transportation etc. complete as required.	Job	6	6000.00	36000.00	
28	Lifting ,lowering, Repair of submersible pumps upto 10 HP from existing borewell/open well & installation, testing and commissioning at site by using tripod and other tools, including its connected pipe & cable, packings, nut bolts etc and making water proof joint in submersible cable complete as required	Job	6	5000.00	30000.00	
29	Annual maintenance contract of 2 Sets Hydro pneumatic pump Systems of DP make including the cost of spares for trouble shooting and breakdown maintenance etc. as required as per good engineering practice, recommendation of the original equipment manufacturer (OEM) and instructions of Engineer-in-charge for maintaining the system in acceptable, functional, operational and serviceable state of the following system. Hydro pneumatic pump system models: (a)HPS DPVF 18-40 4.0 KW -1W+1S(01 number) (b) HPS DPV 15/4B- 3.32 KW -1W+1S(01 number) Above mentioned two pump sets consisting of suction and discharge manifold, NRV, DRP, VFD, Control panel, isolating valves, Pressure Gauge, pressure Transmitter, base Frame, Pressure tank etc.	Month	24	9000.00	216000.00	
30	SH:VI - DSR item Execution of Complete items of CPWD Delhi schedule of rates (E&M) 2018.[Up to a Ceiling limit of Rs.5,00,000.00 without GST]. The materials used for executing the DSR items shall be as per the approved make list of AAI, as enclosed with the tender document. (Note: the firm has to quote / upload the percentage above / below (+/-) % on the quantity mentioned against this item directly in the form of multiplying factor in the rate column as clarified below. The rate provided in DSR 2018 is inclusive of GST, however the contractor has to quote the percentage rate excluding GST).	Rs.	500000	0.75	375000.00	

Total Amount 17824624.00

Say 17824624.00

Rupees One Crore Seventy Eight Lakh Twenty Four Thousand Six Hundred and Twenty Four Only



Asst. General Manager (Engg - Elect)

AAI/Rajahmundry Airport

सहायक महा प्रबन्धक (अ.वि.)

Asst General Manager (Engg-Elect)

भारतीय विमानपत्तन प्राधिकरण

Airports Authority of India

राजमंड्री हवाईअड्डा/ Rajahmundry Airport

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