



# Indian Aviation Academy

National Institute of Aviation Management & Research Society  
A joint venture of AAI, BCAS & DGCA, Govt. of India



TRAINAIR PLUS

FULL MEMBER

संदर्भ संख्या:- भा.वि. अका. /अभि. /विधुत/बिजलीघर/ए.एम.सी. /कार्य आदेश/2020-21/845  
Ref. No: IAA/Engg. /Elect. /Power-House/AMC/W.O./2020-21/845

दिनांक 21/10/2021  
Dated: 21/10/2021

सेवा में,  
मेसर्स एस आर एस इंजीनियर्स  
164, सत्य निकेतन,  
मोती बाग- II के पास,  
नई दिल्ली-110021.  
ईमेल:- srs164@yahoo.co.in

To,  
M/S SRS Engineers  
164, Satya Niketan, Near Moti Bagh-II,  
New Delhi-110021  
E-Mail: srs164@yahoo.co.in

विषय: भारतीय विमानन अकादमी और छात्रावास ब्लॉक वसंत कुंज नई दिल्ली में 11KV/415V सबस्टेशन उपकरण i/c संपूर्ण बिजली आपूर्ति प्रणाली का संचालन और रखरखाव का वार्षिक अनुबंध का कार्य आदेश ।

**Sub: Work order of "Annual Maintenance Contract of 11KV/415V Substation Equipment i/c Operation & Maintenance of the complete power supply system at Indian Aviation Academy & Hostel block of Indian Aviation Academy, Vasant Kunj, New Delhi".**

Reference: - 1. Tender ID: - 2021\_AAI\_87654\_1.  
2. Financial Bid opened on 04.10.2021.

महोदय/Sir (s),

- 1) उपरोक्त कार्य हेतु आपकी ई-निविदा निदेशक, भारतीय विमानन अकादमी की ओर से स्वीकृत की जाती है जोकि आपके द्वारा उद्धृत मद मूल्यों पर आपकी कुल राशि रुपये **43,19,940/-** (रुपये तैंतालीस लाख उन्नीस हजार नौ सौ चालीस मात्र) है जो कि अनुमानित लागत रुपये 71,53,136/- से 39.61% कम है । (उद्धृत मूल्य में जीएसटी शामिल नहीं है)।

Your e-tender for the work mentioned above is hereby accepted on behalf of the Director, Indian Aviation Academy at the item rates totaling to **Rs.43,19,940/- (Rupees Forty Three Lakhs Nineteen Thousand Nine Hundred Fourty Only)** which is **39.61% below** the estimated cost of **Rs.71,53,136/- (The quoted rates are exclusive of GST).**

- 2) प्रबंधक (अभि-विधुत), भारतीय विमानन अकादमी, नई दिल्ली इस कार्य के प्रभारी अभियंता होंगे । आपसे निवेदन है कि आप अपनी ओर से एक विश्वसनीय प्रतिनिधि नियुक्त करें जो करारनामे पर हस्ताक्षर करने के लिए अधिकृत हो तथा वह दिनांक 10/11/2021 तक प्रबंधक (अभि-विधुत), भा.वि.अका., नई दिल्ली के कार्यालय में उपस्थित हो तथा करारनामे को पूरा करें। ठेके का करारनामा रु 100/- के नोनज्युडिशियल स्टैम्प पेपर पर निष्पादित किया जाएगा तथा स्टैम्प पेपर का खर्च आपके द्वारा उठाया जाएगा।

Manager Engg. (E), Indian Aviation Academy, Vasant Kunj, New Delhi – 110070 will be Engineer-in-Charge of this work. You are requested to depute your accredited representative, empowered to sign the contract agreement on your behalf to attend the office of the Manager Engg. (E), IAA, to sign & complete the

भारतीय विमानन अकादमी  
कार्यपालक निदेशक कार्यालय  
दिनांक: 21/10/2021  
सं.: 845

Behind Indian Spinal injuries Centre, Vasant Kunj, New Delhi 110070  
Phone: +91 11 26134313 Email: edtraining.niamar@aai.aero

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21/10/2021  
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agreement on or before **10/11/2021**. The contract agreement shall be executed on a non-judicial stamp paper of value of **Rs.100/-** and the cost of the stamp paper shall be borne by you.

- 3) कृपया इस पत्र के जारी होने की तिथि से **10** दिनों के भीतर धरोहर राशि के लिए रुपये **4,31,994/-** (रुपये चार लाख इकतीस हजार नौ सौ चौरानवे मात्र) जमा कर दें अन्यथा ठेके के करारनामे में दी गई शर्त के अनुसार इतनी ही राशि आपके रनिंग बिल से काट ली जाएगी।

Please deposit amount of **Rs.4,31,994/- (Rupees Four Lakh Thirty-One Thousand Nine Hundred Ninety-Four Only)** towards Security Deposit within 10 days from the date of issue of this letter, failing which, the same shall be deducted from your running bills as per conditions of the contract document.

- 4) आपसे निवेदन है कि आप केंद्रीय और राज्य सरकारों के 1970 अधिनियम अनुबंध श्रम नियम तथा 1971 के केंद्रीय नियम (नियमन तथा उन्मूलन) एवं केन्द्र तथा राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के प्रावधान का नवीनतम संशोधनों के साथ अनुपालन करें।

You are requested to comply with the Provisions of Contract Labour (Regulation and Abolition) Act of 1970 and Contract Labour (Regulation & Abolition) Central Rules 1971 & Minimum Wages Act & Rules there of Central & State Governments with latest amendments.

- 5) आपको निर्देश दिया जाता है कि तुरंत प्रबंधक (अभियान्त्रिकी-विद्युत), भा.वि.अका., नई दिल्ली-110070 से 29.10.2021 को मिले वह आपको साईट सौंपने की व्यवस्था करेंगे। कृपया नोट कर ले कि कार्य करने का निर्धारित समय चोबीस (24) महीने है जोकि **01.11.2021** से शुरू माना जाएगा।

You are directed to contact **Manager Engg. (E), Indian Aviation Academy, Vasant Kunj, New Delhi - 110070** on 29.10.2021 for taking over the site. Please note that the time allowed for carrying out the work is **Twenty-Four (24) Months** which shall be reckoned from **01.11.2021**.

- 6) इस ठेके के सम्बंध में आगे का कोई भी पत्राचार प्रबंधक (अभि-विद्युत), भा.वि.अका., नई दिल्ली-110070 के पते पर किया जाए।

Any further correspondence in connection with this contract should normally be addressed to **Manager Engg. (E), Indian Aviation Academy, Vasant Kunj, New Delhi - 110070**.

- 7) उपरोक्त संदर्भित सभी पत्र इस ठेके का भाग होंगे।

All the letters referred above shall form part of contract.

- 8) ठेके की दोष दायित्व अवधि छह (06) महीने होगी जोकि कार्य समाप्ति की तिथि से गिना जाएगा।

The defect liability period shall be **Six (06) Months** which shall be reckoned from the date of completion of work.

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- 9) कहीं भी हिंदी या अंग्रेजी संस्करण में अंतर या अस्पष्टता के मामले में, अंग्रेजी संस्करण मान्य होगा।  
If there is any difference or ambiguity in Hindi or English version anywhere, the English version shall prevail.

- 10) कृपया इस कार्य आदेश की प्राप्ति को स्वीकार करें और स्वीकृति के टोकन के रूप में अधोहस्ताक्षरी को हस्ताक्षर करने के बाद इस पत्र की डुप्लिकेट कॉपी को संलग्न करें।

Please acknowledge the receipt of work order and return the duplicate copy of this letter enclosed herewith after signing it to the undersigned as a token of acceptance.

भवदीय/ Yours faithfully

प्रबंधक (अभि.-विधुत) / Manager (Engg.-E)  
आई.ए.ए. नई दिल्ली/ IAA, New Delhi

संलग्न/ Encl:- कार्य की अनुसूची (02 पृष्ठ)/Schedule of Work (02 Pages).

**(INTERNAL) – For kind information please.**

1. Director, IAA, Vasant Kunj, New Delhi.
2. DGM (Com.), IAA Vasant Kunj, New Delhi.
3. AGM (Fin.), IAA, Vasant Kunj, New Delhi.
4. AGM (E-E), AAI (CATFM), NATS, New Delhi.
5. Manager (E-C), IAA, Vasant Kunj, New Delhi.
6. Agreement.
7. Office copy.

**(EXTERNAL)- Copy to:-**

1. Labour Commissioner, Govt. of NCT of Delhi, 5 Sham Nath Marg, Prema Kunj, Civil Lines, New Delhi-110054.
2. Provident Fund (PF) Commissioner, Bhavishya Nidhi Bhawan, 8<sup>th</sup> Floor, 8 floor Community center, Wazirpur Industrial area, Delhi- 110052.
3. ESIC Panchdeep Bhawan, Comrade Inderjeet Gupta Marg, New Delhi- 110002.

प्रबंधक (अभि.-विधुत) / Manager (Engg.-E)

आई.ए.ए. नई दिल्ली/ IAA, New Delhi

प्रबंधक (वि०)/Manager (E-E)

भारतीय विमानन अकादमी/Indian Aviation Academy  
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**SCHEDULE OF QUANTITIES**

**Name of work: Annual Maintenance Contract of 11KV/415V Substation Equipment i/c Operation & Maintenance of the complete power supply system at Indian Aviation Academy & Hostel block of Indian Aviation Academy, Vasant Kunj, New Delhi.(2021-23)**

| S. No.                                                              | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                     | Qty. | Unit  | Rate  | Amount            |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|-------------------|
| <b>SH-I: Operation &amp; Maintenance of Substation installation</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |       |                   |
| 1                                                                   | Operation & Maintenance of 11KV/415V Substation equipments i/c HT panel, Transformers, Gensets & MV Panels including trouble shooting, preventive maintenance and break down maintenance as required as per good engineering practice, recommendations of the manufacture and instructions of Engineer-In-Charge and as per specification enclosed located at IAA substation by deploying following manpower on all working days i/c Sunday & Holidays. |      |       |       |                   |
| (i)                                                                 | Senior Supervisor in G Shift i/c Sunday & Holidays (1 no. in each shift & Reliever shall be provided on Weekly Off)                                                                                                                                                                                                                                                                                                                                     | 24   | Month | 57000 | 1368000           |
| (ii)                                                                | Electrician on round the clock basis i/c Sunday & Holidays (1 no. in each shift & Reliever shall be provided on Weekly Off)                                                                                                                                                                                                                                                                                                                             | 24   | Month | 42000 | 1008000           |
| (iii)                                                               | DG Operator on round the clock basis i/c Sunday & Holidays (1 no. in each shift & Reliever shall be provided on Weekly Off)                                                                                                                                                                                                                                                                                                                             | 24   | Month | 42000 | 1008000           |
| (iv)                                                                | Khallasi on round the clock basis i/c Sunday & Holidays (1 no. in each shift & Reliever shall be provided on Weekly Off) & (1 nos. in General Shift 6 days a week).                                                                                                                                                                                                                                                                                     | 24   | Month | 28500 | 684000            |
| 2                                                                   | Extra Manpower required for misc. works in case of any emergency for following manpower as & when required:-                                                                                                                                                                                                                                                                                                                                            |      |       |       |                   |
| (i)                                                                 | Wireman (Skilled)                                                                                                                                                                                                                                                                                                                                                                                                                                       | 200  | Hour  | 50    | 10000             |
| (ii)                                                                | Khallasi (Unskilled)                                                                                                                                                                                                                                                                                                                                                                                                                                    | 200  | Hour  | 35    | 7000              |
| <b>TOTAL OF SH- I</b>                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |       | <b>4085000.00</b> |
| <b>SH-II: R &amp; M Works</b>                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |       |       |                   |
| 3                                                                   | Dehydration & Filtration of Transformer oil with High Vacuum Filtration Machine to achieve BDV up to the level of relevant IS Dielectric strength as required i/c submission of oil test reports from government approved laboratory after dehydration of oil as and when required.                                                                                                                                                                     | 3200 | Ltr   | 7     | 22400             |
| 4                                                                   | Testing of Dielectric strength (BDV) of <b>Transformer oil on yearly basis</b> or as & when required for 02 nos. 2 MVA transformers & submission of report from government approved laboratory i/c collection of sample from site, transportation to lab complete as required. (1 Job includes complete testing of oil sample from 01 transformer)                                                                                                      | 4    | Job   | 1500  | 6000              |
| 5                                                                   | Supply & Topping up the transformer oil in conservator tank upto the recommended level with fresh/treated transformer oil as & when required.                                                                                                                                                                                                                                                                                                           | 100  | Ltr   | 150   | 15000             |



| S. No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                             | Qty. | Unit            | Rate   | Amount              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|--------|---------------------|
| 6      | Complete Testing & Calibration of all type of Relays of 12 KV Compact VCB HT Panel HT Panel i/c submission of report for the same complete as per site requirement.                                                                                                                                                                                                                             | 5    | Each            | 1800   | 9000                |
| 7      | Servicing & Testing of 12 KV Compact VCB HT Panel of make- ABB i/c servicing of 05 Nos. 630A rating compact VCB Breaker, 2 Nos. PT i/c checking & tightening of connections etc. i/c submission of report from OEM or its Authorised Dealer complete as required <b>on yearly basis.</b> (01 Job- Complete servicing & testing of complete HT panel i/c all the compact VCB breakers, PTs etc.) | 5    | Job             | 7400   | 37000               |
| 8      | Overhauling and Servicing of following rating ABB make ACB of LT Panel.                                                                                                                                                                                                                                                                                                                         |      |                 |        |                     |
| (i)    | 800 Amp                                                                                                                                                                                                                                                                                                                                                                                         | 3    | Each            | 1400   | 4200                |
| (ii)   | 1000 Amp                                                                                                                                                                                                                                                                                                                                                                                        | 3    | Each            | 1900   | 5700                |
| (iii)  | 1250 Amp                                                                                                                                                                                                                                                                                                                                                                                        | 3    | Each            | 2000   | 6000                |
| (iv)   | 1600 Amp                                                                                                                                                                                                                                                                                                                                                                                        | 1    | Each            | 2000   | 2000                |
| (v)    | 3200 Amp                                                                                                                                                                                                                                                                                                                                                                                        | 3    | Each            | 2200   | 6600                |
| 9      | Rewinding of following openwell pump motors <b>as &amp; when required</b> with enamelled copper winding wire, varnishing i/c greasing replacement of bearings/ bush, repairing of shaft including transportation charges completed as required. (All dismantle material belongs to the contractor)                                                                                              |      |                 |        |                     |
| (i)    | 3.0 HP, 3 Phase Submersible Pumps                                                                                                                                                                                                                                                                                                                                                               | 1    | Each            | 3500   | 3500                |
| (ii)   | 5.0 HP, 3 Phase Submersible Pumps                                                                                                                                                                                                                                                                                                                                                               | 2    | Each            | 5000   | 10000               |
| 10     | Supply of following consumables, registers & other material:                                                                                                                                                                                                                                                                                                                                    |      |                 |        |                     |
| (i)    | Old Cotton Dhoti (nominal size 2m x 1m)                                                                                                                                                                                                                                                                                                                                                         | 200  | Each            | 10     | 2000                |
| (ii)   | PVC Cotton (ISI make) (1.80cm x 8mm x 0.125 mm)                                                                                                                                                                                                                                                                                                                                                 | 50   | Each            | 9      | 450                 |
| (iii)  | HT Tape (1 Roll of 3 Nos.)                                                                                                                                                                                                                                                                                                                                                                      | 2    | Each            | 100    | 200                 |
| (iv)   | CRC Bottle (500ml)                                                                                                                                                                                                                                                                                                                                                                              | 8    | Each            | 150    | 1200                |
| (v)    | Distilled Water                                                                                                                                                                                                                                                                                                                                                                                 | 50   | Ltr             | 5      | 250                 |
| (vi)   | Log Book DG Sets                                                                                                                                                                                                                                                                                                                                                                                | 8    | Each            | 120    | 960                 |
| (vii)  | Log Book Power House                                                                                                                                                                                                                                                                                                                                                                            | 8    | Each            | 150    | 1200                |
| (viii) | Maintenance Registers                                                                                                                                                                                                                                                                                                                                                                           | 8    | Each            | 40     | 320                 |
| (ix)   | Supply of Silica Gel for Breather                                                                                                                                                                                                                                                                                                                                                               | 8    | Kg              | 120    | 960                 |
|        | <b>TOTAL OF SH II</b>                                                                                                                                                                                                                                                                                                                                                                           |      |                 |        | <b>134940.00</b>    |
|        | <b>SH- III DSR ITEMS</b>                                                                                                                                                                                                                                                                                                                                                                        |      |                 |        |                     |
| 11     | DSR Items Percentage above/below CPWD Schedule of Rates for E&M (2018) works totaling to Rs.1,00,000/- (Item to be executed as per the site requirement) (All DSR items Rate to be taken excluding GST)                                                                                                                                                                                         | 1    | AS per DSR'2018 | 100000 | 100000              |
|        | <b>TOTAL OF SH III</b>                                                                                                                                                                                                                                                                                                                                                                          |      |                 |        | <b>100000.00</b>    |
|        | <b>TOTAL OF (SH-I + SH-II+ III)</b>                                                                                                                                                                                                                                                                                                                                                             |      |                 |        | <b>43,19,940.00</b> |

(Rupees Fourty Three Lakhs Nineteen Thousand Nine Hundred Fourty Only)

GST Extra as applicable

Manager (Engg.- Elect.), IAA

(रविन्द्र दीपक/Ravinder Deepak)  
प्रबंधक (वि०)/Manager (E-E)

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