



संख्या :- भाविप्रा/जोध./अभि.(वि.)/ डब्ल्यूई-152/2024-25/2671-2679

दिनांक:- 17.01.2025

Ref. No :- AAI/JOD/ENGG (E)/WE-152/2024-25/

Date:- 17.01.2025

सेवा में,

To,

मैसर्स ब्राइट इंडस्ट्रीज,

M/s Brite Industries,

67-ए, हाफिज अली बहादुर खान मार्ग, सूर्याजी,  
कंपाउंड, खटाऊ मिल्स के पीछे, बाईकुला (पश्चिम),  
मुंबई-400011

67-A, Hafiz Ali Bahadur Khan Marg, Suryaji,  
Compound, Behind Khatau Mills, Byculia(W),  
Mumbai-400011

ई-मेल:- afzal@briteinds.com

E-mail :- afzal@briteinds.com

कार्य का नाम:- सिविल एन्क्लेव जोधपुर में एचवीएसी सिस्टम की 2\*200 टीआर स्कू टाइप एयर कूल्ड चिलर इकाइयों का प्रतिस्थापन।

Name of work:- Replacement of 2 \* 200 TR Screw Type Air cooled chiller units of HVAC System at  
Civil Enclave Jodhpur.

संदर्भ:- आपकी ई-निविदा आईडी : 2024\_AAI\_219701\_1 की वित्तीय बिड दिनांक 15.01.2025 को खोली गयी।

Ref:-Your e-Tender ID : 2024\_AAI\_219701\_1 Financial Bid was opened on dtd. 15.01.2025.

महोदय / Dear Sir (S),

- उपरोक्त उल्लेखित कार्य के लिए आपकी ई-निविदा आपके द्वारा बताए गये मद मूल्यों पर कुल राशि ₹ 1,87,21,934.00/- (दर जीएसटी रहित) (एक करोड़ सत्तासी लाख इक्कीस हजार नौ सौ चौतीस मात्र) जो कि अनुमानित लागत ₹ 2,36,46,260.00 (जीएसटी रहित) जो ई-निविदा में दी गई है से 20.82% नीचे है, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत की जाती है।

Your e-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 ₹ 1,87,21,934.00/- (Excluding GST) (Rupees One Crore Eighty Seven Lakh Twenty One Thousand Nine Hundred Thirty Four Only) which is 20.82% blow the Estimated Cost put to e-TENDER of ₹ 2,36,46,260.00 (Excluding GST).

- वरिष्ठ प्रबंधक (अभि.-विद्युत), भारतीय विमानपत्तन प्राधिकरण, सिविल एन्क्लेव, जोधपुर - 342011 इस कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है आप करारनामे पर हस्ताक्षर करने के लिए दिनांक 03.02.2025 तक वरिष्ठ प्रबंधक (अभि.-विद्युत), सिविल एन्क्लेव, जोधपुर - 342011 के कार्यालय में उपस्थित हो तथा करारनामे को पूरा करें। ठेके का करारनामा ₹ 500/- (रु पाँच सौ मात्र) के नोन ज्युडिशियल स्टैम्प पेपर पर निष्पादित किया जाएगा जिसका खर्चा आपके द्वारा उठाया जाएगा।

Senior Manager (E-E), Airports Authority of India, Civil Enclave, Jodhpur - 342011 shall be Engineer-in-Charge of the work. You are requested to attend the office of Senior Manager (E-E), Airports Authority of India, Civil Enclave, Jodhpur - 342011 by 03.02.2025 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value of ₹ 500/- (Rs. Five Hundred only) and the cost of the stamp paper shall be borne by you.

- कृपया इस पत्र के जारी होने की तिथि से 10 दिनों के भीतर प्रतिभूति राशि ₹ 18,72,193.00 (रु अठारह लाख बहत्तर हजार एक सौ तिरानबे मात्र) जमा कर दें, अन्यथा ठेके के करारनामे में GCC के पृष्ठ संख्या 17 पर क्लॉज नं.1A के अनुसार इतनी ही राशि आपके रनिंग बिल से काट ली जाएगी।

Please deposit ₹ 18,72,193.00 (Rs. Eighteen Lakh Seventy Two Thousand One Hundred Ninety Three Only) towards security deposit within 10 days from the date of issue of this letter failing which, the same will be deducted as per condition of Clause No. 1A on Page No. 17 of GCC of contract document.

लगातार - 2



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4. आपसे निवेदन है कि आप केन्द्रीय और राज्य सरकारों के 1970 के अनुबंध श्रम (विनियमन और उन्मूलन) अधिनियम के प्रावधान और अनुबंध श्रम (विनियमन और उन्मूलन) के केंद्रीय नियम 1971, बालश्रम (निषेध और विनियमन) अधिनियम 1986, निर्माण श्रमिक (रोजगार और सेवा की शर्त का विनियमन) अधिनियम 1996, भवन और अन्य निर्माण श्रमिक कल्याण उपकर अधिनियम 1996 आदि जैसाकि ई टेन्डर दस्तावेज और केंद्रीय एवं राज्य सरकार के नियमों में निर्दिष्ट प्रावधानों का 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, Child Labour (Prohibition & Regulation) Act 1986, Construction Workers (Regulation of Employment & Condition of Service) Act 1996, Building and other construction Workers Welfare Cess Act 1996 as specified in the e-TENDER document and rules of Central and State Government.

5. आपको निर्देशित किया जाता है कि तुरंत सहायक प्रबंधक (अभि.-विद्युत), भारतीय विमानपत्तन प्राधिकरण, सिविल एन्क्लेव, जोधपुर से मिले वह आप को साइट सौंपने की व्यवस्था करेंगे।

You are directed to contact Asstt. Manager (Engg.-Elect), Airports Authority of India, Civil Enclave, Jodhpur immediately who will arrange to hand over the site to you.

6. कृपया नोट कर ले कि काम करने का निर्धारित समय 04 (चार) माह है जोकि इस पत्र के जारी होने से दसवें दिन (अर्थात 27.01.2025) से गिना जाएगा।

Please note that the time allowed for carrying out the work shall be 04 (Four) Month and same shall be reckoned from the tenth day (i.e. 27.01.2025) after issue of this letter.

7. इस अनुबंध के संबंध में कोई और पत्राचार सामान्य रूप से प्रभारी अभियंता को संबोधित किया जाये।

Any further correspondence in connection with this contract should normally be addressed to Engg.-in-Charge

8. कृपया पावती भेजें और इस पत्र की डुप्लिकेट कॉपी हस्ताक्षर करने के बाद स्वीकृति के टोकन के रूप में अधोहस्ताक्षरी को लौटाएं।

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.

नोट : हिंदी अथवा अंग्रेजी संस्करण में अंतर पाये जाने पर अंग्रेजी संस्करण मान्य होगा।

NOTE: If there any discrepancy is observed in Hindi and English version, the English version will be considered.

*Handwritten signature*  
17/11/2025

वरिष्ठ प्रबंधक (अभि.-विद्युत) /SM (Engg. - E),

के लिए और ओर तरफ से - अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण,

For and on behalf of the Chairman, Airports Authority of India,

संलग्न / Enclosed:- Bill of Quantities



प्रतिलिपि:-

1. महाप्रबन्धक (अभि.) उ.क्षे., भारतीय विमानपत्तन प्राधिकरण, नई दिल्ली-37  
General Manager (Engg.) N.R., A.A.I., New Delhi – 37
2. विमानपत्तन निदेशक, भारतीय विमानपत्तन प्राधिकरण, सिविल एन्क्लेव, जोधपुर – 342011।  
Airport Director, Airports Authority of India, Civil Enclave, Jodhpur – 342011
3. उप महाप्रबन्धक (अभि. - विद्युत), भारतीय विमानपत्तन प्राधिकरण, सिविल एन्क्लेव, जोधपुर – 342011  
DGM (Engg. – E), Airports Authority of India, Civil Enclave, Jodhpur – 342011
4. वरिष्ठ प्रबन्धक (वित्त), भारतीय विमानपत्तन प्राधिकरण, सिविल एन्क्लेव, जोधपुर – 342011  
Senior Manager (Finance), Airports Authority of India, Civil Enclave, Jodhpur – 342011
5. सहायक प्रबन्धक (अभि. - विद्युत), भारतीय विमानपत्तन प्राधिकरण, सिविल एन्क्लेव, जोधपुर – 342011  
Asstt. Manager (Engg. – E), Airports Authority of India, Civil Enclave, Jodhpur – 342011
6. सहायक श्रम आयुक्त (केंद्रीय), ऑफिसर्स मैस के सामने, जोधपुर – 342011  
Assistant Labor Commissioner (Central), Opposite Officers Mess, Jodhpur - 342011
7. करारनामा प्रतिलिपि /Agreement Copy
8. सम्बन्धित फाइल / Concerned File

*Handwritten signature and date: 17/11/2025*

वरिष्ठ प्रबंधक (अभि.-विद्युत) /SM (Engg. - E),  
भारतीय विमानपत्तन प्राधिकरण / Airports Authority of India  
सिविल एन्क्लेव, जोधपुर – 342011 / Civil Enclave, Jodhpur – 342011

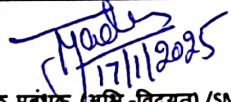
# **BILL OF QUANTITIES**

कार्य का नाम:- सिविल एन्क्लेव जोधपुर में एचवीएसी सिस्टम की 2\*200 टीआर स्कू टाइप एयर कूल्ड चिलर इकाइयों का प्रतिस्थापन।

Name of Work:- Replacement of 2 \* 200 TR Screw Type Air cooled chiller units of HVAC System at Civil Enclave Jodhpur.

| Sl. No. | Item Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quantity | Units | Rate Excluding GST | Total Amount Excluding GST |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------------|----------------------------|
| 1.01    | <b>SH - I (SITC of 2 * 200 TR Screw Type Air cooled chiller)</b><br>Supply, Installation, testing & commissioning of Screw Type air cooled chilling unit (with VFD / VSD) of 200 TR (minimum actual capacity) with Twin compressor complete in accordance with AHRI / Eurovent with all aspect. The chilled water inlet / outlet temperature of 54 / 44 Deg. F respectively with chilled water circulation rate of 480 USGPM & fouling factor 0.0005 FPS and suitable for operation on refrigerant for screw / centrifugal type machine, Chiller should be ECBC + 2017 compliant. First chiller shall be factory tested as AHRI & Tender Conditions at 100%, 75%, 50% and 25% load. Following accessories, items or services shall also be part of chiller.<br>a) 1 Set - hermetic/ semi hermetic Helical Rotary twin Screw / Centrifugal compressors & twin circuit with automatic capacity control, safety switches, speed increasing gears, forced feed lubrication system etc. as per specifications. The unit shall be designed to unload up to 25% at constant condensor entering temperature.                                                                                                                                                            |          |       |                    |                            |
| 1.02    | b) 1 No. Suitable capacity squirrel cage induction motor with class "F" insulation suitable for operation on the 415+- 10% volts, 50 HZ , AC supply.<br>c) 1 No. Unit mounted / free standing VFD / VSD starter (IP 42) suitable for compressor motor complete with active harmonic filter displaying THD and to limit THDI upto 5% at equipment level, ammeter with CTs, over load protection, under voltage protection, protection against phase reversal & independent single phase preventers etc. complete as required. Cable termination adaptor box for Al/Cu cables (if reqd).Necessary Drive arrangement<br>d) 1 Set lubrication device consisting of automatic electric oil pump cooler, head tank, oil strainer, automatic pressure regulating valve, oil heater thermal switch , etc. as per manufacturer standards.<br>e) 1 No. matching in accordance with ASME / PED /GB / BIS Air cooled Copper Tube-Aluminum fins type condenser.<br>f) 1 No. matching in accordance with ASME / PED / GB / BIS shell and tube flooded type chiller for screw units of MS shell and copper tubes.<br>g) 1 No. lot refrigerant piping fittings including valves as required and accessories to interconnect compressor, condenser, chiller and expansion valve. | 2        | Each  | 7909125.00         | 15818250.00                |
| 1.03    | h) 1 set - BMS compatible microprocessor based control panel with coloured graphical display complete with accessories as per specification. Card for BMS integration to be provided along with chiller.<br>i) 1 Lot - refrigerant line accessories comprising of safety valves, angle valves, liquid rubber insulation complete as required from factory.<br>j) 1 Lot- suction line and chiller insulation with minimum 19mm thick elastomeric and motor with base plate complete with anti vibration pads including PCC / RCC foundation as per OEM recommendation.<br>k) 1 LOT - initial / first charge of refrigerant gas and compressor oil duly charged.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |       |                    |                            |
| 1.04    | All necessary hardware and necessary software shall be in scope of agency. But final responsibility of chiller shall be of chiller manufacturer.<br>Chiller :- 200 TR<br>Chilled water in:- 54 F<br>Chilled water in:- 44 F<br>Chilled water Flow:- 480 USGPM<br>Fouling factor :- 0.0005 FPS<br>Maximum pressure drop in chiller : 8 M wg<br>COP at AHRI condition - 3.2 (Min) to be as per ECBC + Guidelines<br>IPLV of the Chiller shall not exceed 0.7 kW/TR<br>NPLV <= 0.67 at Site Conditions ( Max)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |       |                    |                            |
| 1.05    | <b>Note</b><br>1 All performance parameters like KW/TR, COP, IPLV & NPLV etc shall be inclusive of all losses of VFD / VSD & Active Harmonic Filter etc.<br>2. The price quoted shall include pre shipping inspection / testing at the works of the manufacturer, Freight, Insurance, clearance, loading / unloading, Installation, testing and commissioning etc. as required complete with foundation, leveling of machines, Minor Piping work and installations as per manufacturer's recommended and approved vibration isolators, testing of all safeties and interlocks, summer and monsoon season tests, etc.<br>3. The system shall be compatible with Existing chiller system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |       |                    |                            |

| Sl. No.                                                                                | Item Description                                                                                                                                                                                                         | Quantity | Units | Rate Excluding GST | Total Amount Excluding GST |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------------|----------------------------|
| 2                                                                                      | Dismantling of existing 200 TR screw type chiller units, foundation and associated accessories, including shifting the same from the HVAC plant location to dismantle items store located not more than 200 metres away. | 2        | Job   | 150000.00          | 300000.00                  |
| 3.00                                                                                   | SH - II (CAMC of 2 * 200 TR Screw Type Air cooled chiller)<br>CAMC after completion of defect liability period (DLP) of Two years.                                                                                       |          |       |                    |                            |
| 3.01                                                                                   | CAMC for 3rd Year (2.75% of SITC Amount)                                                                                                                                                                                 | 1        | Year  | 435001.88          | 435001.88                  |
| 3.02                                                                                   | CAMC for 4th Year (3% of SITC Amount)                                                                                                                                                                                    | 1        | Year  | 474547.50          | 474547.50                  |
| 3.03                                                                                   | CAMC for 5th Year (3.27% of SITC Amount)                                                                                                                                                                                 | 1        | Year  | 517256.78          | 517256.78                  |
| 3.04                                                                                   | CAMC for 6th Year (3.56% of SITC Amount)                                                                                                                                                                                 | 1        | Year  | 563129.70          | 563129.70                  |
| 3.05                                                                                   | CAMC for 7th Year (3.88% of SITC Amount)                                                                                                                                                                                 | 1        | Year  | 613748.10          | 613748.10                  |
| Total Amount Excluding GST Rs.                                                         |                                                                                                                                                                                                                          |          |       |                    | 18721933.96                |
| Say Rs.                                                                                |                                                                                                                                                                                                                          |          |       |                    | 18721934.00                |
| (Rupees One Crore Eighty Seven Lakh Twenty One Thousand Nine Hundred Thirty Four Only) |                                                                                                                                                                                                                          |          |       |                    |                            |

  
 वरिष्ठ प्रबंधक (अभि.-विद्युत) / SM (Engg. - E),  
 भारतीय विमानपत्तन प्राधिकरण / Airports Authority of India  
 सिविल एन्क्लेव, जोधपुर - 342011 / Civil Enclave, Jodhpur - 342011