

संदर्भ सं. भाविप्रा/वीओ/उप.महा.प्र.(ईजी-विधुत)/HVAC/डब्ल्यू-18/2022-23/484
Ref. No.: AAI/BO/DGM(E-E)/HVAC/W-18/2022-23

दिनांक : 19.01.2023
DATE : 19.01.2023

By Speed Post / By E-mail

सेवा में,
मेसर्स वी.सेव. इलेक्ट्रॉनिक्स प्राइवेट लिमिटेड
सी -41, सेक्टर -58,
नोएडा,
यूपी -201301

To,
M/s. V Save Electronics Pvt Ltd.
C-41, Sector-58,
Noida
UP-201301

कार्य का नाम :- वडोदरा हवाई अड्डे पर एन. ई. टी. बी. के एच वी ए सी सिस्टम और बी. एम. एस., स्प्लिट टाइप एसी यूनिट, वॉटर कूलर और वाटर प्युरिफायर का संचालन और व्यापक रखरखाव का ठेका (02 वर्ष के लिए) [वर्ष 2023 & 2024]

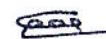
Name of work :- Operation & comprehensive maintenance contract of HVAC system & BMS of NITB, split type AC units, water coolers & water purifiers at Vadodara Airport. (For 2 year period) (Yr. 2023 & 2024)

संदर्भ : 1) दिनांक : 22.12.2022 को खोली गई निविदा आईडी : 2022_AAI_135691_1

2) आपका पत्र संख्या : VSEPL/JustificationLetter01/AAI_Vadodara दिनांक : 23.12.2022 एवं ई-मेल दिनांक:28.12.2022

महोदय,

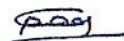
- कृपया उपरोक्त टेंडर आई.डी. से संबंधित आपके टेंडर का अवलोकन करें।
1. Kindly refer your tender submission i.r.o above tender I.D.
- उल्लिखित कार्य हेतु आपका टेंडर अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है। आपके द्वारा बताए आइटम मूल्यों पर आपका टेंडर कुल रु. 1,03,53,420/- (रुपये एक करोड़ तीन लाख तिरपन हजार चार सौ बीस मात्र) (जी.एस.टी रहित) है, जो कि टेंडरकी अनुमानित / न्योचित राशि रु.1,53,46,608/- (जी.एस.टी रहित) से 32.54 % कम है। वास्तविक के अनुसार GST का भुगतान किया जाएगा। भारतीय विमानपत्तन प्राधिकरण का गुजरात राज्य के लिए GST संख्या : 24AAACA6412D1ZE है।
- 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 Rs. 1,03,53,420/- (Rupees One Crore Three Lakh Fifty Three Thousand Four Hundred Twenty only) (Excluding GST), which is 32.54 % below than the estimated / Justified cost Rs.1,53,46,608/- (Excluding GST). GST shall be paid as per actual. The GST No.of Airports Authority of India for Gujarat state is 24AAACA6412D1ZE.
- उपमहाप्रबंधक (अभि-विधुत), भारतीय विमानपत्तन प्राधिकरण, वडोदरा एयरपोर्ट, वडोदरा कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि अपनी ओर से एक विश्वसनीय प्रतिनिधि नियुक्त करें जो करारनामे पर हस्ताक्षर करने तथा उसे पूरा करने के लिए दिनांक 15.02.2023 तक उपमहाप्रबंधक (अभि-विधुत) भारतीय विमानपत्तन प्राधिकरण, वडोदरा एयरपोर्ट, वडोदरा के कार्यालय में उपस्थित हो। ठेके का करारनामा ₹ 100/- के नॉनजुडीशियल स्टैम्प पेपर पर निष्पादित किया जाएगा, तथा स्टैम्प पेपर का खर्च आपके द्वारा उठाया जायेगा।



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3. Dy.Gen. Manager (Engg-E), Airports Authority of India, Vadodara Airport, Vadodara shall be the Engineer-in-Charge of the work. You are requested to attend the office of the Dy.Gen. Manager (Engg-E), Airports Authority of India, Vadodara Airport, Vadodara by **15.02.2023** to sign and complete the contract agreement. The contract agreement shall be executed on a non - judicial stamp paper of value ₹ 100/- and the cost of the stamp paper shall be borne by you.
4. कृपया इस पत्र के जारी होने के 15 दिनों के भीतर निविदा की सामान्य शर्तों पृष्ठ संख्या GCC-129 के Schedule -E, para (iii) के अनुसार सिक्योरिटी डिपॉजिट के लिए राशि ₹ 10,35,342/- (रुपये दस लाख पैंतीस हजार तीन सौ बयालीस मात्र) केवल जमा कर दे, अन्यथा इतनी ही राशि आपके रनिंग बिलो से काट ली जाएगी।
4. Please deposit ₹ 10,35,342/-(Rupee Ten Lakh Thirty Five Thousand Three Hundred Forty Two only) towards security deposit as per Schedule -E para (iii) on page GCC-129 of tender document within 15 days from the date of issue of this letter, failing which the same will be deducted from your running bill.
5. आपसे निवेदन है कि आप केन्द्रीय और राज्य सरकारों के 1970 के अधिनियम अनुबंध श्रम नियम तथा उन्मूलन तथा 1971 के कन्द्रीय नियम तथा उन्मूलन एवं न्यूनतम वेतन अधिनियम और नियम के प्रावधानों का अनुपालन करें।
5. You are requested to comply with the provision of contract labour (Regulation and abolition) Act of 1970 and contract labour (Regulation and abolition) Central rules 1971 and minimum wages Act & rules thereof central and state Governments.
6. आपको निर्देश दिया जाता है कि आप तुरंत सहायक महाप्रबंधक (अभि-विधुत), भारतीय विमानपत्तन प्राधिकरण, वडोदरा एयरपोर्ट, वडोदरा से संपर्क करें, जोकि आपको साइट सोपने की व्यवस्था करेंगे। कृपया नोट करले कि काम करने का अनुमत समय **02 वर्ष (दो साल)** है जोकि दिनांक 01.02.2023 के दिन से गिना जाएगा।
6. You are also directed to contact AGM (Engg-E), Airports Authority of India, Vadodara Airport, Vadodara immediately who will arrange to hand over the site to you. Please note that the time allowed for carrying out the work is **02 Years (Two Years)** which shall be reckoned from the date **01.02.2023**.
7. ठेकेदार द्वारा किसी सुरक्षा विनियमों का उलंघन करते पाये जाने पर उसे ब्लैक लिस्टेड कर दिया जाएगा और अन्य कानूनी कार्यवाही की जाएगी।
7. If Contractor is found to violate any of security regulations, he shall be black listed and will be subjected to other legal proceedings.

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8. इस ठेके के संबंध में आगे का कोई भी पत्राचार उपमहाप्रबंधक (ईजी-विधुत), भाविप्रा, वडोदरा एयरपोर्ट, वडोदरा -390022 के पते पर किया जाए।
8. Any further correspondences in connection with the contract should normally be addressed to the Dy. Gen. Manager (Engg-E), AAI, Vadodara Airport, Vadodara -390022.
9. उपरोक्त कार्य के लिए त्रुटि दायित्व की अवधि 03 माह होगी जो कार्य के प्रमाणित समाप्ति के दिन से गिनी जाएगी।
9. The defects liability period for the above-mentioned work shall be 03 months from the certified date of completion work.
10. उपरोक्त हिन्दी एवं अंग्रेजी के पाठ्य में मतभेद होने पर अंग्रेजी लिपि में लिखित पाठ्य मान्य होगा।
10. In case of discrepancy in Hindi and English text then English text will be taken as correct.
11. कृपया पावती भेजे।
11. Please acknowledge the receipts.

संलग्नक: Schedule of Quantity

धन्यवाद / Thanking you,

भवदीप / Yours Faithfully,

— Sd. —

(आर. बी एस कुशवाहा)
(R.B S Kushwaha)

उपमहाप्रबंधक (अभि.विधुत)

Dy. General Manager (Engg-E)

कृते तथा ओर से अध्यक्ष

For and on behalf of chairman,

भारतीय विमानपत्तन प्राधिकरण, वडोदरा एयरपोर्ट.

Airports Authority of India, Vadodara Airport.

प्रतिलिपि Copy To : (NOO)

1. महाप्रबंधक (अभि), भारतीय विमानपत्तन प्राधिकरण, आरएचक्यू, पश्चिम क्षेत्र, इंटीग्रेटेड प्रशासनिक भवन, पारसी वाड़ा के सामने, सहार रोड, विले पार्ले(पूर्व), मुंबई - 400 099.
General Manager (Engg), Airports Authority of India, RHQ, Western Region, Integrated Administrative Building, Opp. Parsiwada, Sahar Road, Vile Parle (E), Mumbai - 400099.
2. संयुक्त महाप्रबंधक(सतकर्ता), भारतीय विमानपत्तन प्राधिकरण, आरएचक्यू, पश्चिम क्षेत्र, इंटीग्रेटेड प्रशासनिक भवन, पारसी वाड़ा के सामने, सहार रोड, विले पार्ले(पूर्व), मुंबई - 400 099.
Jt.Gen.Manager (Vigilance), Airports Authority of India, RHQ, Western Region, Integrated Administrative Building, Opp. Parsiwada, Sahar Road, Vile Parle (E), Mumbai - 400099..

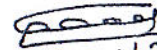
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3. संयुक्त महाप्रबंधक (अभि-विद्युत), भारतीय विमानपत्तन प्राधिकरण, आरएचक्यू, पश्चिम क्षेत्र, इंटीग्रेटेड प्रशासनिक भवन, पारसी वाड़ा के सामने, सहार रोड, विले पार्ले(पूर्व), मुंबई - 400 099.
Jt.Gen.Manager (Engg.-Elect), Airports Authority of India, RHQ, Western Region, Integrated Administrative Building, Opp. Parsiwada, Sahar Road, Vile Parle (E), Mumbai - 400099.
4. क्षेत्रीय श्रम आयुक्त, चंद्रप्रभा फ्लैट नंबर-2, कृष्णा नगर सोसाइटी, मोती बाग पैलेस के सामने, वडोदरा - 390001.
Regional Labour Commissioner, Chandraprabha Flat No.2, Krishna Nagar Society, Opp. Moti Baugh Palace, Vadodara - 390 001.
5. क्षेत्रीय भविष्य निधि आयुक्त, भविष्य निधि भवन, वीएमसी वार्ड -6 कार्यालय के पीछे, अकोटा स्टेडियम रोड, अकोटा, वडोदरा -390020
Regional P.F Commissioner (I), Bhavishyanidhi Bhawan, Behind VMC Ward-6 Office, Akota Stadium Road, Akota, Vadodara - 390020.

आंतरिक विवरण / INTERNAL: (By E-mail)

1. विमानपत्तन निदेशक, भाविप्रा, नागरविमान क्षेत्र, वडोदरा/Airport Director, Airports Authority of India, CA, Vadodara- सूचनार्थ ।
2. सहायक महाप्रबंधक (वित्त) / AGM (Fin), Airports Authority of India, CA, Vadodara.
3. सहायक महाप्रबंधक (अभि-विद्युत)/ AGM(E-E), Airports Authority of India, CA, Vadodara- कार्य निष्पादन हेतु।
4. कार्य फाइल / Work File
5. करारनामा फाइल / Agreement File
6. हिन्दीगार्ड फाइल / Hindi Guard File


19/01/2023

(आर. बी एस कुशवाहा)
(R.B S Kushwaha)
उपमहाप्रबंधक (अभि-विद्युत)
Dy. General Manager (Engg-E)
कृते तथा ओर से अध्यक्ष
For and on behalf of chairman,
भारतीय विमानपत्तन प्राधिकरण, वडोदरा एयरपोर्ट.
Airports Authority of India, Vadodara Airport.

SCHEDULE OF QUANTITY

Name of Work: Operation & Comprehensive maintenance contract of HVAC System & BMS of NITB, Split type AC units, Water coolers & Water Purifier at Vadoadra Airport. (For 2 Year Period) (Yr-2023 & 2024).

Sl.No	Description of Work / Item(s)	Qty	Unit	Rate (In Rs.)	Amount (In Rs.)
1.00	Operation and upkeeping of HVAC system i/c BMS of NITB involving operation minor repair & maintenance, maintaining records/ documentation for the above works as per the scope of work and terms & conditions of contract on all days including Sundays & holidays of the month on round the clock basis etc complete all as required. The details of man power to be deployed in each shift of 8 hrs and the list of Equipments to be operated and upkept shall be as per special condition of contract.	24.00	Month	306830.00	7363920.00
2.00	All inclusive comprehensive maintenance of 3 x 350 TR water cooled HVAC System including BMS consisting of CARRIER make centrifugal type chillers, cooling towers, Primary /Secondary / Condenser pumps, fan coil units, AHU's Exhaust System, MV cubical panels etc. and all other associated electrical system and equipment's including periodical checks, carrying preventive maintenance as per manufacturer's & AAI guidelines, attending break down which includes repair or replacement of defective components with genuine components from OEM/ OEM Channel Partner/ OEM authorised dealers as per special conditions of contract, maintaining records/ documentation, supplying consumables for electrical and mechanical maintenance i/c chemical dosing to keep condenser water quality within permissible limit as per OEM standard etc. complete as per detailed specification, terms & conditions of contract.	24.00	Month	33333.00	799992.00
3.00	All inclusive comprehensive maintenance of Toshiba make VRV / VRF System of following capacity of VRV Cassettes AC, indoor and outdoor unit including periodical checks, carrying preventive maintenance as per manufacturer's & AAI guidelines, attending break down which includes repair or replacement of defective components with genuine components from OEM/ OEM Channel Partner/ OEM authorised dealers, maintaining records/documentation, supplying consumables for electrical and mechanical maintenance complete all as required. The work shall be carried out as per the detailed specification, terms & conditions of contract. (a) Out door unit 22 HP - 4 Nos (b) Indoor unit 1.25 HP (1 TR) - 1 Nos (c) Indoor unit 2.5 HP (2.1 TR) - 3 Nos (d) Indoor unit 4 HP (3.2 TR) - 4 Nos (e) Indoor unit 5 HP (4 TR) - 11 Nos	24.00	Month	4500.00	108000.00

Sl.No	Description of Work / Item(s)	Qty	Unit	Rate (In Rs.)	Amount (In Rs.)
4.00	All inclusive comprehensive maintenance of Daikin make VRV system of following capacity of VRV Cassettes AC, VRV Ductable AC unit, Fresh Air Intake unit (TFA) indoor and outdoor unit including periodical checks, carrying preventive maintenance as per manufacturer's & AAI guidelines, attending break down which repair or replacement of defective components with genuine components from OEM/ OEM Channel Partner/ OEM authorised dealers, maintaining records/documentation, supplying consumables for electrical and mechanical maintenance complete all as required. The work shall be carried out as per the detailed specification, terms & conditions of contract. > VRV Outdoor unit (a) Out door unit 6 HP - 6 Nos (b) Out door unit 8 HP - 2 Nos (c) Out door unit 36 HP (18HP + 18HP) - 10 Nos (d) Out door unit 40 HP (20HP + 20HP) - 1 Nos > VRV Cassette type Indoor unit (f) Cassette type Indoor unit 3.2 TR - 16 Nos (g) Cassette type Indoor unit 2.5 TR - 14 Nos (h) Cassette type Indoor unit 2 TR - 8 Nos (i) Cassette type Indoor unit 1.6 TR - 10 Nos (j) Cassette type Indoor unit 1.2 TR - 3 Nos (k) Cassette type Indoor unit 1.0 TR - 27 Nos > VRV Ductable type Indoor unit (l) VRV Ductable type Indoor unit 2.0 TR - 2 Nos (m) VRV Ductable type Indoor unit 4.0 TR - 8 Nos (n) VRV Ductable type Indoor unit 4.5 TR - 10 Nos (o) VRV Ductable type Indoor unit 6.4 TR - 14 Nos (p) VRV Ductable type Indoor unit 8.0 TR - 9 Nos > VRV / VRF Fresh Air intake Ductable Indoor unit q) TFA / FAI Indoor unit 4.0 TR - 6 Nos r) TFA / FAI Indoor unit 6.4.0 TR - 2 Nos (Shall be execute after DLP period of this item)	12.00	Month	60250.00	723000.00

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Sl.No	Description of Work / Item(s)	Qty	Unit	Rate (In Rs.)	Amount (In Rs.)
5.00	Quarterly Inspection of CARRIER make 3 Nos X 350 TR water cooled centrifugal type chillers from OEM / authorised OEM Service dealer/ Authorized system Integrator for checking chillers performance periodically. SCOPE OF WORK QUARTERLY INSPECTION OF CHILLERS as belows:- a) To check oil level in the compressor. b) To check liquid sight glasses for determining refrigerant shortage. c) To inspect the unit for leaks with a soap solution. d) To inspect entire system for any unusual conditions such as noise, vibration, etc. e) To check the system operating pressure and temperatures to ensure proper operating conditions. f) To check Evaporator and Condenser Approach. g) To check chilled water flow by checking pressure drop across the chiller. h) To compare the chilled water temperature at full load with the chilled water temperature control. i) To inspect all safety controls and adjust if required. j) To inspect all operating control and sequence of operation. k) To review daily operating log maintained by Customers operating personnel and instruct operating personnel as required. l) To give suggestions for improvement of chiller performance. m) To carryout calibrations of transducer & sensors. n) To check Motor Insulation. o) To carryout adjustments of controls if required. p) To clean, tight and checking of soft starter & accessories. q) To carryout software checking & verifications, if there is any minor work then it will be attended and provide recommendations for replacement of hardware if any. r) To generate the report of all units during visit and same will be handed over to the agency for onward submission to AAI.	8.00	Job	5000.00	40000.00

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Sl.No	Description of Work / Item(s)	Qty	Unit	Rate (In Rs.)	Amount (In Rs.)
6.00	Carrying out Quarterly Inspection of Honeywell make BMS installed for the HVAC system of NITB from Original Equipment Manufacturer (OEM) / authorised OEM Service dealer/ Authorized system Integrator and submission of Quarterly Inspection Reports to Engineer-In-Charge The work shall be carried out as per the detailed specification, terms & conditions of contract. SCOPE OF WORK QUARTERLY INSPECTION OF BMS as follows:- a) Power connectivity to all DDC panels. b) Soft points integrations to DDC controllers. c) Hard points and sensors connectivity to the DDC controllers. d) Check soft inputs and hard inputs outputs in BMS Software. e) MSTP connectivity from DDC controllers to main controller. f) LAN connectivity from main controller to software. g) Generate the report for troubleshooting and material requirements will be handed over to the agency for onward submission to AAI.	8.00	Job	1000.00	8000.00
7.00	Carrying out Quarterly Inspection of Toshiba make VRV / VRF Outdoor, Cassette type Indoor unit installed at NITB from Original Equipment Manufacturer (OEM) / authorised OEM Service dealer/ Authorized system Integrator and submission of Quarterly Inspection Reports to Engineer-In-Charge The work shall be carried out as per the detailed specification, terms & conditions of contract.	8.00	Job	1000.00	8000.00
8.00	Carrying out Quarterly Inspection of Daikin make VRV / VRF Outdoor, Indoor (Cassate and Ductable type), TFA / FAI System installed at New ATC Tower Cum Technical Block from Original Equipment Manufacturer (OEM) / authorised OEM Service dealer/ Authorized system Integrator and submission of Quarterly Inspection Reports to Engineer-In-Charge The work shall be carried out as per the detailed specification, terms & conditions of contract. (Shall be execute after DLP period of this item)	4.00	Job	1000.00	4000.00
9.00	Comprehensive Annual Maintenance of wall mounted split type room Air conditioners of following capacity of different makes by visiting once in a month and attending any numbers of breakdown calls including carrying out preventive maintenance such as cleaning, repairing/ replacement consumable items, piping and electrical components with genuine materials, taking rectification action, ensuring servicing/ satisfactory working condition of the system as per the detailed specifications, terms & conditions covered under this contract. a) 1.5 TR Capacity 230V, 50 Hz (Qty = 23 Nos AC unit x 24 month = 552 Job) (Note: Rate should be quoted per AC Unit per month)	552.00	Job	74.00	40848.00

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Sl.No	Description of Work / Item(s)	Qty	Unit	Rate (In Rs.)	Amount (In Rs.)
10.00	Comprehensive Annual Maintenance of wall mounted split type room Air conditioners of following capacity of different makes by visiting once in a month and attending any numbers of breakdown calls including carrying out preventive maintenance such as cleaning, repairing/ replacement consumable items, piping and electrical components with genuine materials, taking rectification action, ensuring servicing/ satisfactory working condition of the system as per the detailed specifications, terms & conditions covered under this contract. a) 2 TR Capacity, 230 V, 50 Hz. (Qty= 6 Nos AC unit x 24 month = 144 Job) (Note: Rate should be quoted per AC Unit per month)	144.00	Job	80.00	11520.00
11.00	Comprehensive Annual Maintenance of wall mounted split type room Air conditioners of following capacity of different makes by visiting once in a month and attending any numbers of breakdown calls including carrying out preventive maintenance such as cleaning, repairing/ replacement consumable items, piping and electrical components with genuine materials, taking rectification action, ensuring servicing/ satisfactory working condition of the system as per the detailed specifications, terms & conditions covered under this contract..(Compressor under warantee) a) 1.5 TR Capacity 230V, 50 Hz (Qty = 49 Nos AC unit x 24 month + 10 Nos AC unit x 17 month + 04 Nos AC unit x 12 months = 1394 Job) (Note: Rate should be quoted per AC Unit per month)	1394.00	Job	80.00	111520.00
12.00	Comprehensive Annual Maintenance of wall mounted split type room Air conditioners of following capacity of different makes by visiting once in a month and attending any numbers of breakdown calls including carrying out preventive maintenance such as cleaning, repairing/ replacement consumable items, piping and electrical components with genuine materials, taking rectification action, ensuring servicing/ satisfactory working condition of the system as per the detailed specifications, terms & conditions covered under this contract..(Compressor under warantee) a) 2 TR Capacity, 230 V, 50 Hz (Qty =46 Nos AC unit x 24 Month + 2 Nos AC unit x 12 Month = 1128 Job) (Note: Rate should be quoted per AC Unit per month)	1128.00	Job	80.00	90240.00

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Sl.No	Description of Work / Item(s)	Qty	Unit	Rate (In Rs.)	Amount (In Rs.)
13.00	Comprehensive Annual Maintenance of Split Type / Tower type / Cassette type Air conditioners of following capacity of different makes by visiting once in a month and attending any numbers of breakdown calls including carrying out preventive maintenance such as cleaning, repairing/ replacement consumable items, piping and electrical components with genuine materials, taking rectification action, ensuring servicing/ satisfactory working condition of the system as per the detailed specifications, terms & conditions covered under this contract. a) 3 /3.5 TR Capacity, 3 phase, 415V, 50 HZ (Qty = 7 Nos AC x 24 month = 168 Job) (Note: Rate should be quoted per AC per month)	168.00	Job	90.00	15120.00
14.00	Comprehensive Annual Maintenance of Tower/ Cassette type, ceiling mounted room Air conditioners of following capacity of different makes by visiting once in a month and attending any numbers of breakdown calls including carrying out preventive maintenance such as cleaning, repairing/ replacement consumable items, piping and electrical components with genuine materials, taking rectification action, ensuring servicing/ satisfactory working condition of the system as per the detailed specifications, terms & conditions covered under this contract. a) 4 /4.5 TR Capacity, 3 phase, 415V, 50 HZ (Qty = 7 Nos AC x 24 month = 168 Job) (Note: Rate should be quoted per AC per month)	168.00	Job	120.00	20160.00
15.00	Comprehensive Annual Maintenance of DX Type Coil , Microprocessor based Precision Type AC unit of following capacity of different makes by visiting once in a month and attending any numbers of breakdown calls including carrying out preventive maintenance such as cleaning, repairing/ replacement consumable items, piping and electrical components with genuine materials, taking rectification action, ensuring servicing/ satisfactory working condition of the system as per the detailed specifications, terms & conditions covered under this contract. a) 6.0 TR Capacity, 3 phase, 415V, 50 HZ (Qty = 4 Nos AC x 12 month = 48 Job) (Note: Rate should be quoted per AC per month) (Shall be execute after DLP period of this item)	48.00	Job	600.00	28800.00

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Sl.No	Description of Work / Item(s)	Qty	Unit	Rate (in Rs.)	Amount (in Rs.)
16.00	Comprehensive Annual Maintenance of Air cooled, floor mounted Packaged type Air Conditioner Unit Refrigerant R407 (Make :- Blue Star) of following capacity installed at New Power House location by visiting once in a month and attending any numbers of breakdown calls including carrying out preventive maintenance such as cleaning, repairing/ replacement consumable items, piping and electrical components with genuine materials, taking rectification action, ensuring servicing/ satisfactory working condition of the system as per the detailed specifications, terms & conditions covered under this contract. a) 16.5 TR Capacity, 3 phase, 415V, 50 HZ (Qty = 4 Nos AC unit x 24 month = 96 Job) (Note: Rate should be quoted per AC per month)	96.00	Job	600.00	57600.00
17.00	Comprehensive Annual Maintenance of water coolers of all makes of following capacity at different locations of different makes by visiting once in a month and attending any numbers of breakdown calls including carrying out preventive maintenance by providing all necessary consumables and spares etc., complete as per site requirement and as per special conditions of contract. a) 80 Ltr capacity (Qty = [15 Nos Water Cooler unit x 24 month + 05 Nos Water Cooler unit x 10 month = 410 Job] (Note: Rate should be quoted per Water Cooler per month)	410.00	Job	500.00	205000.00
18.00	Comprehensive Annual Maintenance of water coolers of all makes of following capacity at different locations of different makes by visiting once in a month and attending any numbers of breakdown calls including carrying out preventive maintenance by providing all necessary consumables and spares etc., complete as per site requirement and as per special conditions of contract. a) 120 Ltr capacity (Qty = 3 Nos Water Cooler unit x 24 month = 72 Job) (Note: Rate should be quoted per Water Cooler per month)	72.00	Job	500.00	36000.00
19.00	Comprehensive Annual Maintenance of wall mounted bi-level drinking water fountain system having 2 Nos. - Fountain/ Spout (one high and one low height respectively), water discharge rate 30 LPH having 1 No. - Online chiller unit with R-134a refrigerant, adjustable thermostat control, push button, suitable for operation on 230 V $\pm$ 10%, single phase, 50Hz, AC supply etc. in different location of NITB as per special condition of contract. (Make- OASIS, Model No. M8CR) (Qty = 10 Nos Water Fountain unit x 24 month = 240 Job) (Note: Rate should be quoted per Water Fountain unit per month)	240.00	Job	500.00	120000.00

Sl.No	Description of Work / Item(s)	Qty	Unit	Rate (In Rs.)	Amount (In Rs.)
20.00	Comprehensive Annual Maintenance of following different size wall mounted stainless steel air curtain with effective air throw atleast 2.5 metre, noise upto 70 dB, suitable for door size in different location of NITB as per special condition of contract.(Make-Technomech). a) 2500 mm (width) x 2400 mm (height) (Qty = 4 Nos Air Curtain unit x 24 month = 96 Job) (Note: Rate should be quoted per Air Curtain unit per month)	96.00	Job	150.00	14400.00
21.00	Comprehensive Annual Maintenance of following different size wall mounted stainless steel air curtain with effective air throw atleast 2.5 metre, noise upto 70 dB, suitable for door size in different location of NITB as per special condition of contract.(Make-Technomech). a) 2100 mm (width) x 2400 mm (height) (Qty = 4 Nos Air Curtain unit x 24 month = 96 Job) (Note: Rate should be quoted per Air Curtain unit per month)	96.00	Job	150	14400.00
22.00	Comprehensive Annual Maintenance of following different size wall mounted stainless steel centrifugal type non re circulating Air curtain with effective air throw atleast 2.5 metre, noise upto 45 dB, suitable for door size at New ATC cum Technical Block as per special condition of contract. a) 2000 mm (width) x 2400 mm (height) (Qty = 6 Nos Air Curtain unit x 12 month = 72 Job) (Note: Rate should be quoted per Air Curtain unit per month) (Shall be execute after DLP period of this item)	72.00	Job	150.00	10800.00
23.00	Comprehensive Annual Maintenance of following different size wall mounted stainless steel air curtain with effective air throw atleast 2.5 metre, noise upto 70 dB, suitable for door size in different location of NITB as per special condition of contract.(Make-Technomech). a) 1500 mm (width) x 2400 mm (height) (Qty = 8 Nos Air Curtain unit x 24 month = 192 Job) (Note: Rate should be quoted per Air Curtain unit per month)	192.00	Job	150.00	28800.00
24.00	Comprehensive Annual Maintenance of following different size wall mounted stainless steel air curtain with effective air throw atleast 2.5 metre, noise upto 70 dB, suitable for door size in different location of NITB as per special condition of contract.(Make -Technomech). a) 1800 mm (width) x 1650 mm (height) (Qty = 4 Nos Air Curtain unit x 24 month = 96 Job) (Note: Rate should be quoted per Air Curtain unit per month)	96.00	Job	150.00	14400.00

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Sl.No	Description of Work / Item(s)	Qty	Unit	Rate (In Rs.)	Amount (In Rs.)
25.00	Comprehensive Annual Maintenance of wall mounted stainless steel (304) fully automatic hand dryer with drying time 30 sec maximum, IPX1 protection Suitable for operation on 230 V ± 10%, single phase, 50Hz, AC supply in different location of NITB as per special condition of contract.(Make/ Model: Technocrat Security Systems/ Classic SS) . (Qty = 30 Nos Automatic Hand Dryer x 24 month = 720 Job) (Note: Rate should be quoted per Hand Dryer unit per month)	720.00	Job	150.00	108000.00
26.00	Comprehensive Annual Maintenance UV+UF based Water Purification system having capacity 50 Ltr/H including filters, UV's, Membrane and auto cutt off water level sensor as per technical specifications installed at various locations by visiting once in a month and attending any numbers of breakdown calls including carrying out preventive maintenance such as cleaning, repairing/ replacement consumable items [membrane of make - permionics/ membrane filters, UV of make - SS Alfa/ sukrut, Prefilter - 20" - 5 micron yarn cadle and 20" carbon block) piping and electrical components with genuine materials, taking rectification action, ensuring servicing/ satisfactory working condition of the system as per the detailed specifications, terms & conditions covered under this contract. (Qty = 18 Nos Purifier x 24 month = 432 Job) (Note: Rate should be quoted per Water Purifier per month)	432.00	Job	500.00	216000.00
27.00	Comprehensive Annual Maintenance Pre-filter +RO +UV+UF+TDS Controller based Water Purification system having capacity 50 Ltr/H including filters, UV's, Membrane and auto cutt off water level sensor as per technical specifications installed at various locations by visiting once in a month and attending any numbers of breakdown calls including carrying out preventive maintenance such as cleaning, repairing/ replacement consumable items piping and electrical components with genuine materials, taking rectification action, ensuring servicing/ satisfactory working condition of the system as per the detailed specifications, terms & conditions covered under this contract. (Qty = 05 Nos RO x 10 month = 50 Job) (Note: Rate should be quoted per Water Purifier per month) (Shall be execute after DLP period of this item)	50.00	Job	500.00	25000.00

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Sl.No	Description of Work / Item(s)	Qty	Unit	Rate (In Rs.)	Amount (In Rs.)
28.00	All inclusive comprehensive maintenance of 80 Ltr to 310 Ltr Single door refrigerator, direct cooling, stabiliser free operation including stand & all accessories as required as per direction of engineer in charge. installed at various location by visiting once in a month and attending any numbers of breakdown calls including carrying out preventive maintenance such as cleaning, repairing/ replacement consumable items, piping and electrical components with genuine materials, taking rectification action, ensuring servicing/ satisfactory working condition of the system as per the detailed specifications, terms & conditions covered under this contract. (Qty = 15 Nos Refrigerator x 24 month = 360 Job) (Note: Rate should be quoted per Refrigerator unit per month)	360.00	Job	100.00	36000.00
29.00	Painting, of AC plant associated internal and exposed pipe lines, Motors, Pumps, associated valves, fittings and supports of all associated installations at service block, trench and NITB area with anti-rust paint in two coats etc. as per site requirement [Approximate 730 sqmtr in 01 Job]	2.00	Job	15000.00	30000.00
30.00	Dismantling of all type of air conditioning system Up to 2 TR and safely handed over to AAI store including finishing of wall properly with cement plaster, Putty, Color etc. as per site requirement.	15.00	Job	500.00	7500.00
31.00	Dismantling of all type of air conditioning system from 3.0 to 4.0 TR and safely handed over to AAI store including finishing of wall properly with cement plaster, Putty, Color etc. as per site requirement.	5.00	Job	500.00	2500.00
32.00	Installations of all type of air conditioning system (Up to 2 TR) with connected refrigerant copper piping (Minimum 3 Mtr.) with Nitrile rubber insulation, copper cable including suitable heavy duty M.S.Stand for outdoor unit, Standard drain pipe, 15 A plug Top including all accessories etc. as per technical specification and as per site requirement.	20.00	Job	500.00	10000.00
33.00	Installations of all type of air conditioning system (3 TR to 4 TR) with connected refrigerant copper piping (Minimum 3 Mtr.) with Nitrile rubber insulation, copper cable including suitable heavy duty M.S.Stand for outdoor unit, Standard drain pipe, Single Phase/ Three Phase Industrial plug Top box including all accessories etc. as per technical specification and as per site requirement.	4.00	Job	500.00	2000.00
34.00	Providing and fixing of 20mm inner dia CPVC drain pipe for drain water for AC and wastage water of water cooler unit to nearest drain point including CPVC Elbow, CPVC "T", CPVC Coupler, Reducer, solvent, clamp, net packing at end etc. as per site requirement.	100.00	Meter	10.00	1000.00
35.00	Providing & fixing extra refrigerant copper piping Up to 2.0 TR with Nitrile rubber insulation and suitable copper cabling between indoor and outdoor units etc. as required.	100.00	Meter	250.00	25000.00

Sl.No	Description of Work / Item(s)	Qty	Unit	Rate (In Rs.)	Amount (In Rs.)
36.00	Providing & fixing extra refrigerant copper piping Up to 3.0 to 4.0 TR with Nitrile rubber insulation and suitable copper cabling between indoor and outdoor units etc. as required.	30.00	Meter	300.00	9000.00
37.00	Supply of 50mm thick Box type washable synthetic type air pre filters having anodized aluminium frame and efficiency 90% down to 10 micron of following sizes for AHUs, as and when required as per the site requirements. a) Size - 610mm x 610mm x 50mm	10.00	Each	50.00	500.00
38.00	Supply of 50mm thick Box type washable synthetic type air pre filters having anodized aluminium frame and efficiency 90% down to 10 micron of following sizes for AHUs, as and when required as per the site requirements. a) Size - 305mm x 610mm x 50mm	5.00	Each	50.00	250.00
39.00	Supply of 50mm thick Box type washable synthetic type air pre filters having anodized aluminium frame and efficiency 90% down to 10 micron of following sizes for AHUs, as and when required as per the site requirements. a) Size - 305mm x 305mm x 50mm	3.00	Each	50.00	150.00
40.00	Supply of PVC fills having size of 600mm x 300mm x 150 mm for cooling tower as and when required after the prior approval of sample.	300.00	Each	20.00	6000.00
	TOTAL				10353420.00

(Rupees One Crore Three Lakh Fifty Three Thousand Four Hundred Twenty Only)

Note :- GST shall be paid as per actual.

(R.B.S.Kushwaha)
DGM(E-E)
AAI,CA,Vadodara

19/01/2023

Signature Not Verified

Digitally signed by RAVINDER SINGH MEHROTRA

Date: 2023.04.01 10:33:25 IST

Location: eProcurement System for Central PS