

अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport

निविदा का मूल्य / Cost of Tender: Rs. 1680/-

भारतीय विमानपत्तन प्राधिकरण  
AIRPORTS AUTHORITY OF INDIA  
सरदार वल्लभभाई पटेल अन्तरराष्ट्रीय हवाईअड्डा,  
Sardar Vallabhbhai Patel International Airport,  
अहमदाबाद / Ahmedabad -380003



भारतीय विमानपत्तन प्राधिकरण  
AIRPORTS AUTHORITY OF INDIA

निविदा दस्तावेज  
TENDER DOCUMENT  
विषय / TITLE

स.व.प.अं. हवाई अड्डा अहमदाबाद पर जीएनएसएस आर & डी केंद्र मे कम्प्युटर सर्वर और  
स्टोरेज समाधान हेतु आपूर्ति, संस्थापन, परीक्षण एवं कमीशनिंग

**Supply, Installation, Testing & Commissioning of Computer server and  
Storage solution for GNSS R & D center at SVPI Airport, Ahmedabad, Gujarat**

निविदा सं.(संचार) / *Tender No:* AAI/AHM/CNS/GAGAN/04

निविदा पहचान Tender ID: [2020\\_AAI\\_42391\\_1](#)

**Note:** The Signed and Sealed copy of this tender document with the entries of offer filled up and duly attached with the original page(s) without disturbing the original page format shall be uploaded with digital signature along with the Technical Bid in the e-tendering portal of Airports Authority of India. The changes in the content of the tender Document in any-other form will be considered as non-responsive offer.

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport**

यह पृष्ठ रिक्त छोडा गया है  
PAGE LEFT BLANK

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**विषय-सूची की सारणी**  
**TABLE OF CONTENTS**

<b>Sr. No.</b>	<b>Section</b>	<b>PARTICULARS</b>	<b>PAGE</b>
1	Section-I	निविदा आमंत्रण सूचना /Notice Inviting Tender	4
2	Section-II	ई-टेंडरिंग प्रक्रिया के लिए दिशानिर्देश/ General E-Tendering Procedure Guideline	14
3	Section-III	कार्य की अनुसूची एवं सामान्य जानकारी / SCOPE OF WORK AND GENERAL INFORMATION	18
4	Section-IV	शर्तें एवं नियम / Terms & Conditions	25
5	Annexure-I	Bill of Quantity	33
6	Annexure-II	TECHNICAL SPECIFICATIONS COMPLIANCE STATEMENT	36
7	Annexure-III	स्वीकृति पत्र /Acceptance Letter	64
8	Annexure-IV	निष्पादन बैंक गारंटी / Performance Bank Guarantee	65
9	Annexure-V	Force Majeure की सूचना/ Intimation of Force Majeure	67
10	Annexure-VI	समय के विस्तार के लिए आवेदन/ Application for extension of Time	68
11	Annexure-VII	वैन्डर संस्था / कंपनी का विवरण / Details Of The Vendor Firm/Company	70
12	Annexure-VIII	ठेकेदार/ बोली लगाने वाले के द्वारा घोषणा- 1/ Declaration-1 By The Contractor/Tenderer	71
13	Annexure-IX	ठेकेदार / बोली लगाने वाले के द्वारा घोषणा-2/ Declaration-2 By The Contractor/Tenderer	72
14	Annexure-X/XI	ठेकेदार / बोली लगाने वाले के द्वारा घोषणा-3/4 Declaration-3, 4 By The Contractor/Tenderer	73-74
15	Annexure-XII	ठेकेदार/ बोली लगाने वाले के साथ समझौता /Agreement WITH SUCCESSFUL BIDDER	75
16	Schedule A	बोली मूल्य नमूना (वित्तीय बोली) / Sample Price Bid ("Financial Bid")	77

अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport

अनुच्छेद-1 /SECTION-I

निविदा आमंत्रण सूचना (3 बीओटी - 3 लिफाफे खुली निविदा)

**NOTICE INVITING TENDER (3 BOT – 3 ENVELOPE OPEN TENDER)**

निविदा संदर्भ संख्या /Tender Ref No: AAI/AHM/CNS/GAGAN/04

निविदा पहचान Tender ID: [2020\\_AAI\\_42391\\_1](#)

अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से, संयुक्त महाप्रबन्धक (संचार), भारतीय विमानपत्तन प्राधिकरण, सरदार वल्लभभाई पटेल अंतरराष्ट्रीय हवाईअड्डा, अहमदाबाद-380003 द्वारा, ई-टेन्डरिंग पोर्टल के माध्यम से, योग्य बोली लगाने वालों से, निम्नलिखित कार्य हेतु, निविदाएँ आमंत्रित की जाती हैं।

Tenders are invited through E-Tendering portal by Jt. GM (CNS), AAI, SVPI Airport, Ahmedabad- 380003, on behalf of Chairman, AAI from the eligible bidders for the works as detailed below.

1. **कार्य का विवरण : स.व.प.अं. हवाई अड्डा अहमदाबाद पर जीएनएसएस आर & डी केंद्र मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु आपूर्ति, संस्थापन, परीक्षण एवं कमीशनिंग**

**Details of works: - “Supply, Installation, Testing & Commissioning of Computer server and storage solution for GNSS R & D center at SVPI Airport, Ahmedabad, Gujarat”.**

- 1.1 अनुमानित मूल्य (रू.)(सभी कर सहित)/Estimated Cost ( Rs.) (Inclusive of All Taxes) :-  
Rs 58,26,945/-

Estimated cost of the purchase / work & the EMD are as given below:

S. No	Name of the Work	Estimated Cost Rs. (Inclusive of Taxes)	EMD Rs.	Tender Submission Last Date	Cost of tender fee Rs. (Inclusive of Taxes)
01.	Supply, Installation, Testing & Commissioning of Computer server and storage solution for GNSS R & D center at SVPI Airport, Ahmedabad, Gujarat	Rs 58,26,945/-	Rs 1,16,540/-	20/02/2020	Rs 1680/-

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**1.2 निविदा के संबंध में महत्वपूर्ण तारीखें इस प्रकार हैं / The critical dates for this tender are as given below.**

ई निविदा पोर्टल से निविदा दस्तावेज डाउनलोड करना Download of Tender Document from e-tender portal	From 08.02.2020 to 20.02.2020 (Up to 18:00 Hours)
बोलीकर्ताओं द्वारा पूछताछ Submission of queries by bidders	From 08.02.2020 to 14.02.2020 (Up to 17:00 Hours)
भाविप्रा द्वारा बोलीकर्ताओं की पूछताछ के जवाब Response to Bidders' queries by AAI	From 08.02.2020 to 15.02.2020 (Up to 18:00 Hours)
ई निविदा पोर्टल पर ऑन लाईन बोली प्रस्तुत करना (सभी लिफाफे) Online Submission of Bids (All envelopes) on e-tender portal	From 08.02.2020 to 20.02.2020 (Up to 18:00 Hours)
निम्न के लिए मूल डीडी/बैंक गारंटी प्रस्तुत करना Submission of DD/Bank Guarantee in original of i) निविदा फीस/ Tender fee ii) ईएमडी/ EMD <b>OR</b> यदि छूट के लिए पात्र हैं तो एनएसआईसी/ एमएसएमई पंजीकरण दस्तावेजों की स्कैन की गई प्रति Scan copy of NSIC/ MSME registration documents, if eligible for exemption.	From 08.02.2020 to 21.02.2020 (Up to 13:00 Hours)
तकनीकी बोली खोलना Opening of Technical Bids - Envelope-I (Fee envelope)	21.02.2020 15:00 Hours
तकनीकी बोली खोलना Opening of Technical Bids - Envelope-II (Fee envelope)	21.02.2020 17:00 Hours
मूल्य बोली खोलना Opening of Price Bids	28.02.2020

**1.3 कार्य पूरा करने के लिए आपूर्ति, स्थापना, परीक्षण और कमीशनिंग (एसआईटीसी) अनुमत समय 45 दिन है, जिसे कार्य आदेश जारी करने दिन से माना जाएगा।**

Total time allowed for the completion of work "Supply, Installation, Testing & Commissioning of Computer server and storage solution for GNSS R & D center" is **45 days** from the date of acceptance of contract. However, all delivery of the material will have to be completed within **30 days** from the date of acceptance of contract.

**2. Eligibility Criteria :-**

**2.1** बोलीकर्ता मूल उपकरण निर्माता होना चाहिए (ओईएम) अथवा इसका अधिकृत प्रतिनिधि या डीलर या सिस्टम इंटीग्रेटर या बोलीकर्ता किसी भी भारतीय राज्य / केंद्र सरकार के विभागों / भारत के सार्वजनिक उपक्रमों / सीपीडब्लूडी / रेल्वे / एमईएस / पीडब्लूडी / नगर निगमों आदि के साथ पंजीकृत होना चाहिए।

The bidders should be Original Equipment Manufacturer (OEM) or its authorized representative/Dealer or System Integrator (SI).

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

- a. In case of authorized representative/Dealer, current authorization from OEM authorizing the bidder as its authorized representative shall be submitted.
- b. In case of SI, authorization of OEM(s) firm for their product(s) for the current tender shall be submitted.
- c. Bidder shall obtain certificate from OEM/undertaking from the respective OEM(s) to ensure availability of spares component for entire life of the item (estimated to be 10 years). Applicable for active hardware components.
- d. System Integrator firm is one who sources sub-systems from one or more OEM(s) firms and integrates the same with its own manufacturing/ developing subsystem(s), to supply fully functional system as per prescribed specifications. Current Authorization of OEM firm authorizing the bidder firm for its product(s), spare, sales and service shall be presented by the bidder firm.
- e. The bidder should have presence (self/channel partner) in Ahmedabad/Gandhinagar to provide 24x7 services.

2.2 बोली लगाने वाली संस्था के पास, निविदा में समाहित व दिए गए कार्य को पूरा करने के लिए, सभी आवश्यक साधन, संयन्त्र, कुशल मानवशक्ति आदि विद्यमान होनी चाहिए। बोली लगाने वाली संस्था द्वारा इस आशय का एक उत्तरदायित्व प्रमाणपत्र देना होगा, जिसमें लिखा होगा कि, निविदा में समाहित व दिए गए कार्य अथवा उसके किसी भी भाग को करने के लिए, किसी भी तीसरी संस्था को काम नहीं दिया जाएगा।

The bidder firm shall possess the required tools, plants, skilled manpower, etc. required for execution of the subject scope of work in the tender. Bidder firm shall submit an **undertaking stating** that no part of the scope of work shall be sublet or outsourced to any third party.

2.3 यदि किसी भी ठेकेदार का कोई भी नजदीकी रिश्तेदार (जोकि अनुबंध की प्रक्रिया या कार्यदिश देने के कार्य से जुड़ा हो) भाविप्रा में, कार्यपालक या गैरकार्यपालक (दोनों शामिल हैं) स्तर का अधिकारी कार्यरत है, तो उस ठेकेदार को इस कार्य के लिए निविदा जमा करवाने की अनुमति नहीं दी जाएगी। उन्हें उन सभी कर्मचारियों, चाहे वे किसी भी स्तर पर और किसी भी काम से जुड़े हों या उन्हें एवजी अथवा अस्थाई तौर पर रखा गया हो, के नाम देने होंगे, जिनके नजदीकी रिश्तेदार भाविप्रा में अधिकारी के रूप में कार्यरत हैं। इन शर्तों में से किसी भी शर्त का भंग होने पर संबंधित संस्था को, प्राधिकरण के साथ अनुबंध की चयनित सूची से हटा दिया जाएगा।

The Contractor shall not be permitted to tender for works in AAI, (responsible for award and execution of contracts) in which his near relative is posted as officer in any capacity between the grades of Executives and Non Executives (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any officer in AAI. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of the Authority.

टिप्पणी : नजदीकी रिश्तेदार का मतलब है, पत्नी, पति और माता-पिता, संरक्षक, बच्चे और नाती-पोते, भाई और बहनें, चाचा-काका, चाची-काकी और चचेरे भाई-बहन तथा कानूनी दत्तक।

**Note:** By the term near relative is meant wife, husband and parents, grandparents, children and grandchildren, brothers and sisters, uncle, aunt and cousin and their corresponding in laws.

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**3. Annualized average financial turnover:**

Details	Amount	Duration
Bidder should have annualized average financial turnover of at least	<b>Rs. 17,48,084/-</b>	During last 3 years ending 31stMarch 2019

As a proof of financial turnover, copy of abridged Balance Sheet along with Profit & Loss account of the bidder for last three years should be submitted.

Firms showing continuous losses during last three years in the balance sheet shall be summarily rejected.

**4. अनुभव /Experience :-**

The bidder should have successfully executed work order as per the minimum amount mentioned in the table below for **SITC of Computer server and storage solution** or similar work, any one of the following values during last seven years.

S. No.	Details	Amount
1.	इसी प्रकार का एक कार्य (एक पीओ) इतने रूपए की राशि से कम नहीं होना चाहिए <b>One similar</b> work of not less than amount (One PO)	<b>Rs. 46,61,556/-</b>
2.	इसी प्रकार के दो कार्य इतने रूपए की राशि से कम (दो पीओ) नहीं होना चाहिए <b>Two similar</b> works of not less than amount (Two POs)	<b>Rs. 29,13,473/-</b>
3.	इसी प्रकार के तीन कार्य इतने रूपए (तीन पीओ)की राशि से कम नहीं होना चाहिए <b>Three similar</b> works of not less than amount (Three POs)	<b>Rs. 23,30,778/-</b>

**5. निष्पादन/अनुभव प्रमाणपत्र /Performance/Experience Certificate:**

5.1 जैसा कि ऊपर पैरा 4 पर दर्शाया गया है, बोली लगाने वाले को, उनके द्वारा किए गए कार्य निष्पादन से संबंधित प्रमाणपत्र जमा करवाना होगा। यह प्रमाणपत्र उस उपभोक्ता द्वारा कार्य निष्पादन के बाद दिया जाना चाहिए, जिसके लिए कार्य निष्पादन किया गया है। यह प्रमाणपत्र बोली लगाने वाले के द्वारा लगाई जाए। यह निष्पादन/अनुभव प्रमाणपत्र में निम्नलिखित बातों का स्पष्ट उल्लेख होना चाहिए:

- i.** आदेश अथवा अनुबंध का मूल्य।
- ii.** आदेश अथवा अनुबंध का कार्यक्षेत्र।
- iii.** आदेश अथवा अनुबंध संख्या तथा कार्य सौंपने की तारीख।
- iv.** आदेश अथवा अनुबंध के पूर्ण होने की तारीख।
- v.** कार्यदिश पाने के बाद, आपूर्ति एवं स्थापित की गई कार्य-प्रणाली के संतोषजनक निष्पादन की स्थिति ।

## अहमदाबाद एयरपोर्ट में कम्प्यूटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport

Bidder must submit performance/experience certificate in respect of the works claimed against experience as mentioned under Para 4. These certificates should be issued by the end user for whom the works have been carried out. Certificate shall be endorsed by the bidder. Such performance/experience certificates should clearly indicate the following:

- i. Value of order or contract
- ii. Scope of order or contract
- iii. Order or Contract No., Award date
- iv. Order or Contract Completion date.
- v. That the supplied & installed systems have performed satisfactorily after commissioning.

5.2 ऊपर दर्शाए पैरा 4 के अनुसार, अनुबंध में समाहित कार्य-निर्माण के कार्य क्षेत्र के तहत निष्पादन से संबंधित, समुचित ढंग से दस्तावेजीकरण करके, कार्य को प्रमाणीकृत किया जाना चाहिए।

The scope of works in respect of works claimed against Para 4 above, should be substantiated by submission of appropriate documentation such as relevant portion of the contract.

### 6. बोली लगाने वाले के पास वैध पीएएन/GST पंजीकरण होना चाहिए।

The bidder should have valid PAN/GST.

6.1 बोली लगाने वाली संस्था अथवा उसकी उप संस्था अथवा उसकी मुख्य संस्था द्वारा वैकल्पिक बोलियाँ लगाने की स्वीकृति नहीं दी जाएगी। यदि इस प्रकार की बोलियाँ लगाई जाती हैं, तो उन्हें नियमानुसार निरस्त कर दिया जाएगा।

No bidder firm or its subsidiary firm or its parent firm shall be allowed to submit **alternate bids**. Such bids shall be summarily rejected.

6.2 भारत सरकार के निदेशों के अनुसार, बोली लगाने वाले, जोकि एनएसआईसी/एमएसएमई में पंजीकृत हैं, को दी जाने वाली सुविधा सुलभ होगी।

Concessions to the bidders registered with NSIC/MSME, shall be applicable as per the directives of Govt. of India.

### 7. निविदा की प्रक्रिया, ई-पार्टल पर URL address [www.etender.gov.in](http://www.etender.gov.in) के पते पर ऑन लाईन होगी। इच्छुक बोली लगाने वाले, सीपीपी पोर्टल पर लॉगइन करके, निविदा के दस्तावेज प्राप्त कर सकते हैं। निविदा किसी अन्य रूप में स्वीकार नहीं की जाएगी। इसके अलावा, यह बात ध्यान में रखी जाए कि, भाविप्रा में ई-निविदा पार्टल पर रख दी गई है, वह निर्णायक होगी और बिना निवेदित निविदा मूल्यांक के लिए उपलब्ध नहीं होगी।

The tendering process is online at NIC CPP Portal URL address [www.etenders.gov.in](http://www.etenders.gov.in). Aspiring bidders may go through the tender document by login the CPP portal. The tenders will not be accepted in any other form. Further it may be noted that tenders which are duly submitted on e-tendering portal of AAI shall only be final and tenders just saved without submission will not be available for evaluation.

### 8. Any amendment or corrigendum to the tender document will be posted on CPP Portal. For the bidders, submitting bids on downloaded tender document, it is

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

bidders' responsibility to check for any amendment/corrigendum on the AAI website or check for the same CPP Portal before submitting their duly completed bids.

9. बोली लगाने लगाने वाले प्रत्याशियों को यह सलाह दी जाती है कि, "ऑनलाईन बोली लगाने के लिए निर्देश" पर ई-निविदा की आवश्यकताओं से विमुक्त होने के लिए, वे अपने आपको सीपीपी पोर्टल पर पंजीकृत करवाएँ, यूजर आईडी और पासवर्ड प्राप्त करें तथा सैल्फ हैल्प फाईल्स पर जाएँ। यह होमपेज सीपीपी पोर्टल [www.etenders.gov.in](http://www.etenders.gov.in) लॉगइन करने पर उपलब्ध होगी। साथ-साथ डिजिटल हस्ताक्षर प्रमाणपत्र (डीएससी) प्राप्त करना होगा, जोकि आवेदन करने के लिए आवश्यक होता है। इस प्रक्रिया में सामान्यतः 03 दिन का समय लगेगा। निविदाकर्ता भाविप्रा के सहायता डेस्क से सहायता प्राप्त कर सकते हैं

Prospective tenderers are advised to get themselves acquainted for e-tendering participation requirements at "instruction for Online Bid Submission", register themselves at CPP portal, obtain 'User ID' & 'Password' and go through the 'self-help files' available in the home page after login to the CPP portal [www.etenders.gov.in](http://www.etenders.gov.in). They should also obtain Digital Signature Certificate (DSC) in parallel which is essentially required for submission of their application. The process normally takes 03 days' time. The tenderer may also take guidance from AAI Help Desk Support.

10. **Tender fee of Rs.1680.00** (non-refundable) will required to be paid offline in the form of Demand Draft drawn in favor of "**Airports Authority of India**" payable at **Ahmedabad** from Nationalized or any scheduled bank (but not from co-operative or Gramin bank). The original Demand Draft against Tender fee should be posted/couriered/given in person to the concerned officials latest as specified in the Tender Document. **The details of Demand Draft, physically sent, should tally with the details available in the scanned copy of DD and the data entered during bid submission time. Scanned copy of Tender fee DD should be uploaded in fee folder (Envelope-1).**
11. Tender shall accompany the **earnest money deposit (EMD)** of Rs. **1,16,540/- and EMD** shall be accepted **offline only** in the form of Demand Draft Drawn in favour of "**Airports Authority of India**", payable at **Ahmedabad** from a nationalized or any scheduled bank (but not from co-operative or Gramin bank). The original Demand Draft against EMD should be posted/couriered/given in person to the concerned officials latest as specified in the Tender Document. The details of Demand Draft, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Scanned copy of EMD DD should be uploaded in fee folder (Envelope-1). **The bid of the bidder, who fails to submit the original DD towards Tender Fee & EMD before the stipulated time, shall be rejected out-rightly. Any postal delay will not be entertained.**

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

12. Tenders not accompanied by the requisite EMD and Tender Fee Except to NSIC/MSME Registered bidders shall be summarily rejected.
13. Concessions to Small Scale Industries (SSI) Units & Central Public Sector Enterprises (CPSEs) will be applicable as per Govt. of India guidelines.
14. Following e-envelopes shall be submitted through online submission at NIC CPP Portal by the bidder.

**Fee Envelop- I:** - Tender fee and EMD for on line e-Tendering/ Scanned copy of NSIC or MSME registration certificate in case of MSME or NSIC bidder.

**Envelop- II (PQQ/Technical Bid):** - Eligibility Bid & Technical e-Bid.

**Envelop- III (Financial Bid):** - The Financial e-Bid.

14.1 **Envelope- I (Fee):** - Envelope-I will contain scanned copy of Tender fee DD and EMD DD. Bidders having valid NSIC or MSME registration have to upload scanned copy of valid MSME or NSIC Registration certification in fee folder to qualify for exemption of submission of EMD and Tender fee.

14.2 **Envelope II (PQQ/Technical Bid) :- Envelope II (Eligibility Bid & Technical Bid)** will Contain qualifying requirements of Contractor / Firm: -

The tenderer shall submit their application by downloading the “PQQ Performa” from the e – tender portal, fill-up the required information and upload the digitally signed file of scanned documents and firm’s bio-data in support of their meeting each criteria mentioned below in the “PQQ Folder” in Technical Bid / Attachments Section in the portal. Uploading of application in location other than specified above shall not be considered. Hard copy of application shall not be entertained.

15. **List of documents to be uploaded in the PQQ/Technical Bid (Envelope II)-**

क्र.सं. S No.	योग्य बोली ई-दस्तावेज (पीडीएफ) Eligibility Bid e-Documents (PDF)	ई-फाईल: जो भी नाम की e-File :Named As
A	पीएन/जीएसटी PAN /GST	संस्था / कंपनी का विवरण Firm/Company Details
B	Firm/shop registration certificate	Registration
C	Letter for Un-conditional Acceptance of terms & conditions of tender as per Annexure-III	Acceptance Letter
D	वैन्डर संस्था/कंपनी का विवरण : निविदा दस्तावेज के परिशिष्ट- VII पर प्ररूप संलग्न है। Details of the Vendor Firm/ Company: Format enclosed as Annexure-VII of the tender document	वैन्डर विवरण Vendor Details
E	31 मार्च, 2018/2019 को समाप्ती से पिछले तीन सालों का लेखा परीक्षा किया हुआ लेखा-जोखा Annualized Average Financial Turnover	एबीएस & पी&एल /ABS & P&L-2018; एबीएस & पी&एल /ABS &

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

	equivalent to Rs. <b>17,48,084/-</b> during last three financial years ending 31st March 2019. FY (2016-17, 2017-18, 2018-19) Copy of abridged Balance Sheet(ABS) along with Profit and Loss account of the firm (bidder) for last three years ending 31 <sup>st</sup> March 2019 duly attested by Chartered accountant	P&L-2017 एबीएस & पी&एल/ABS & P&L-2016
F	कार्य करने के अनुभव के साक्ष्य (ग्राहक द्वारा जारी की गई संबंधित पीओ / कार्य-आदेश के पृष्ठों की प्रतिलियाँ) Proof of Experience of Works claimed. (copy of relevant pages of PO / Work Order issued by the customer) As per Para 4, Sec-I of NIT -One PO of equivalent to 80% of the estimated cost = <b>Rs. 46,61,556/-</b> - Two PO of equivalent to 50% of the estimated cost = <b>Rs. 29,13,473/-</b> -Three PO of equivalent to 40% of the estimated cost= <b>Rs. 23,30,778/-</b>	एक पीओ/One PO, दो पीओ/Two PO, तीन पीओ/Three PO
G	कार्य पूर्ण करने के साक्ष्य (ग्राहक द्वारा जारी किया गया कार्य पूर्ण होने का प्रमाणपत्र) तथा साथ में कार्य करने का पूरा ब्यौरा । Proof of completion (Completion Certificate issued by the customer) with complete details of works claimed similar to SITC of Computer server and storage solution.	एक सीसी/One CC, एक सीसी/Two CC or, एक सीसी/Three CC
H	प्रतिनिधि को शक्तियाँ प्रदान करना (कंपनी के निदेशक अथवा संस्था के स्वामी/भागीदार के इतर वाले मामले में) Power of Attorney (In case of Signatory is other than Director of a Company or Proprietor / Partner of the Firm)	पीओए PoA
I	ठेकेदार / निविदाकर्ता द्वारा घोषणा - 1, घोषणा - 2, घोषणा -3, घोषणा -4 Declaration-1, Declaration-2, Declaration-3 Declaration-4 by The Contractor/ Tenderer	घोषणा-1, घोषणा-2, घोषणा-3 घोषणा-4 Declaration-1, Declaration-2, 3 Declaration-4,
J	Signed Tender Document including Corrigendum (If any).	Tender Doc
K	TECHNICAL SPECIFICATION COMPLIANCE STATEMENT (Annexure II) and BOQ (Annex-I)	Technical Compliance Statement
L	Product/Technical Brochure of Offered Make/Model	Technical Brochure

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

M	Authorization letter from OEM (Refer Para 2.1 of Section-I) Including following information: a. Confirm that the products quoted <b>are not end of life products</b> b. Undertake that the support including spares, patches for the quoted products shall be available <b>for next 10 years.</b>	Authorization letter
N	Any other eligibility related documents as per tender document.	Other Docs

16. **वित्तीय बोली -III:-**

**Envelope- III (Financial Bid): -**

The Financial e-Bid shall be submitted in .xls file uploaded in price bid folder of e-Tender CPP Portal. The bidder shall download .xls file from Price bid folder, will fill rates in the mentioned shells in .xls file. Bidder should ensure the final price in .xls file in Word and figures. After filling of price bid, bidder will digitally signed the .xls file and upload the document in price bid envelope. Unconditional rebate i.e. **header discount (%)** if any is to be put in mentioned section of .xls file only.

17. **बोली खोले जाने की कार्यवाही इस प्रकार की जाएगी:-**

**Bid Opening Process is as below: -**

A. **Envelope-I (FEE Folder): -** Fee folder will be opened as per date and time mentioned in Tender document. It should comprises of scanned copy of tender fee DD and EMD fee DD. EMD DD and Tender fee DD should be received in physical format before date and time mentioned in tender document. In case of NSIC/MSME bidder, scanned copy of valid NSIC or MSME certificate to be uploaded in fee folder to qualify for exemption of Tender fee and EMD fee.

B. **Envelope II (PQQ/Technical Bid):** Envelope II will be opened only of those bidders, who have submitted scanned copy of EMD DD and Tender fee DD in fee folder as well as both DD should matched with hard copy of EMD DD and Tender fee DD received in physical format. The intimation regarding acceptance / rejection of their bids will be intimated to the contractors / firms through e – tendering portal.

If any clarification is needed from the bidder about the deficiency in his uploaded documents, the bidder shall upload the requisite clarification / documents within time in “Short fall documents “, failing which tender will be liable of rejection.

C. **Envelope- III (Financial Bid):** Bidders are requested to note that the Price bid folder will contain .xls file to fill price of each items. Bidder has to download .xls file and fill the .xls file as per the description asked in the .xls file. After filling of rates bidder has to check and confirm final amount in letters and words both. Filled .xls file is to be digitally signed by bidder and then uploaded in prescribed folder on CPP portal. Prices should not to be indicated anywhere in Envelope – II. The financial bids of the contractors / firms found to be meeting

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

the qualifying requirements and technical criteria shall be open. AAI also reserves the right to call off process or short-listing of contractors at any stage without assigning any reasons.

**Sample price bid format is given in Schedule "A".**

18. Bidders shall quote prices inclusive of all taxes, GST etc.
19. पत्राचार के लिए पता: आवेदन पत्र देने और पूर्व योग्यता सूचना संबंधी स्पष्टता/व्याख्या व पूछताछ के लिए निम्नलिखित पते पर पत्राचार किया जा सकता है।  
प्रभारी सीएनएस /संयुक्त महाप्रबन्धक (संचार)  
भारतीय विमानपत्तन प्राधिकरण,  
सरदार वल्लभभाई पटेल अंतरराष्ट्रीय हवाईअड्डा,  
अहमदाबाद फ़ैक्स: 079-22867939

**Address for Correspondence:** Applications and enquiries regarding clarification/ interpretation in connection with this pre-qualification notice should be addressed to:

**Jt. GM (ATSEP-GAGAN), Terminal-4  
Airports Authority of India,  
SVPI Airport, Ahmedabad-380003  
e-mail : uicgnssahm@aai.aero  
Fax: 079-22867939**

20. भा.वि.प्रा. के पास, कोई भी आवेदन अथवा सभी आवेदन, बिना कोई कारण बताए, निरस्त करने का अबाधित अधिकार आरक्षित होगा। भा.वि.प्रा. के पास, बिना कोई कारण बताए, कार्यवाही स्थगित करने का भी अबाधित अधिकार आरक्षित होगा।

AAI reserve the right to accept or reject any or all application without assigning any reasons. AAI also reserves the right to call off tender process at any stage without assigning any reason.

21. भारतीय विमानपत्तन प्राधिकरण, डाक द्वारा भेजे गए आवेदन/निविदा दस्तावेजों की विलम्बित प्राप्ति/गुम होने/प्राप्ति न होने अथवा बोली लगाने वाले द्वारा समय पर निविदा अपलोड न कर पाने के लिए जिम्मेदार नहीं होगा।

AAI shall not be responsible for delay/loss/non-receipt of application/tender document AAI sent by post or if bidder fails to upload tender in time.

\*\*\*\*\*

हस्ता/- - Sd/-

संयुक्त महाप्रबन्धक (संचार-गगन) / Jt. General Manager (ATSEP-GAGAN),  
कृते एवं अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से,  
For & on behalf of Chairman Airports Authority of India,  
सरदार वल्लभभाई पटेल अंतरराष्ट्रीय हवाईअड्डा,  
Sardar Vallabhbai Patel International Airport  
अहमदाबाद Ahmedabad-380003

**GENERAL E-TENDERING PROCEDURE GUIDELINES**

1. The tender document consists of four Sections and Twelve Annexure. The bidder should go through all these sections (Section-I :- Notice Inviting Tender; Section-II :- General E-Tendering Procedure Guideline; Section-III:- Scope of Work and General Information, Section-IV :- Terms & Conditions, and Annexure-I to Annexure-XII ) of the tender document and must comply with each clause of all the four sections and All Annexures.
2. Bidders willing to participate may download the digitally signed tender document on-line from NIC CPP portal at <http://etenders.gov.in/eprocure/app> and submit digitally counter signed tender document on-line at the same portal.
3. The instructions in the tender document are binding on the bidder and submission of the tender shall imply unconditional acceptance of all the terms and conditions by the bidder.

3.1. Schedule of Important Activities mentioned in **Para 1.2 of Section-1.**

3.2. Bidder shall upload tender on NIC CPP Portal well in advance to avoid last minute hassles. AAI shall not entertain any queries on such subject after last date of downloading tender document.

3.3. Date of acceptance and opening of tender can be extended on sole discretion of Jt.GM (ATSEP).

**4. Amendment to Tender document**

4.1. At any time, prior to scheduled date of submission of bids, AAI if it deems appropriate to revise any part of this tender or to issue additional data to clarify and interpretation of provisions of this tender, it may issue addendum / corrigendum to this tender. Any such addendum / corrigendum shall be deemed to be incorporated by this reference into this tender and binding on the bidders. Addendum / corrigendum will be notified through NIC CPP portal at <http://etenders.gov.in/eprocure/app>

4.2. At any time, prior to the date of submission of bids, AAI may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the bid documents by amendments.

**5. Clarifications of Bid Documents**

5.1. Bidder, requiring any clarification of the tender Document, may submit their clarifications, if any, through provision of NIC CPP Portal at <http://etenders.gov.in/eprocure/app>

5.2. Request for clarifications received from bidders shall be responded by AAI till the schedule indicated in para.1.2 above or as extended thereto by AAI.

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

Replies to Clarifications by AAI will be uploaded through NIC CPP Portal. The bidders are advised to visit NIC CPP portal at <http://etenders.gov.in/e procure/app> regularly. Request for clarifications received through E-mail/Fax or letter shall not be considered.

- Clarifications and other documents, if and when issued by AAI, shall be in relation to the tender and hence shall be treated as their extension.
- AAI makes no representation or guarantee as to the completeness or accuracy of any response, nor does AAI undertake to answer all the queries that have been posted by the Bidders.
- **Bidders shall upload their bid well in advance to avoid any last minute problem, however bidders can modify their bid till the last date and time of bid submission date and time as mentioned in Para 1.2 above.**

**6. On-line E-Tendering:** For all AAI tenders hosted on CPPP's NIC CPP site, the Financial Bid, PQQ bid and Technical Bids shall be submitted on-line only.

1. For any technical related queries please call the Helpdesk. The 24 x 7 Help Desk Number 0120-4200462,0120-4001002. Mobile: 91 8826246593 E-Mail: support-eproc@nic.in

Note- Bidders are requested to kindly mention the URL of the Portal and Tender Id in the subject while emailing any issue along with the Contact details. For any issues/ clarifications relating to the tender(s) published kindly contact the respective Tender Inviting Authority.

2. For any Policy related matter / Clarifications, please contact Dept of Expenditure, Ministry of Finance. E-Mail: [cppp-doe@nic.in](mailto:cppp-doe@nic.in)

3. For any Issues / Clarifications relating to the publishing and submission of AAI tender(s):

(a) In order to facilitate the Vendors / Bidders as well as internal users from AAI, Help desk services have been launched between 0800-2000 hours for the CPPP under GePNIC <http://etenders.gov.in> .The help desk services shall be available on all working days (Except Sunday and Gazette Holiday) between 0800-2000 hours and shall assist users on issues related to the use of Central Public Procurement Portal (CPPP).

(b) Before submitting queries, bidders are requested to follow the instructions given in "Guidelines to Bidders" and get their computer system configured according to the recommended settings as specified in the portal at "System Settings for CPPP" **\*The Helpdesk services shall remain closed on all Govt. Gazette Holidays.**

(c) In case of issues related to uploading bid on CPPP portal, escalation matrix is as under

SL. No	Support Persons	Escalation Matrix	E-Mail Address	Contact Numbers	Timings*
--------	-----------------	-------------------	----------------	-----------------	----------

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

1	Help Desk Team	Instant Support	eprochelp@aai.aero	011-24632950, Ext-3512 (Six Lines)	0800-2000 Hrs. (MON - SAT)
2	Sanjeev Kumar	After 4 Hours of Issue	sanjeevkumar@aai.aero	011-24632950, Ext-3505	0930-1800 Hrs. (MON-FRI)
3	S. Nita AGM(IT)	After 12 Hours	snita@aai.aero	011-24632950, Ext-3523	0930-1800 Hrs. (MON-FRI)
4	Jt.General Manager(IT)	After 24Hours	ykkausik@aai.aero	011-24651507	0930-1800 Hrs. (MON-FRI)
5	General Manager(IT)	After 03 days	gmitchq@aai.aero	011-24657900	0930-1800 Hrs. (MON-FRI)
6	Bid Manager: Surendra Sunda AGM (CNS), GAGAN, Ahmedabad	For tender Queries	ssunda@aai.aero	079-22861025 +91 9426588022	0930-1800 Hrs. (MON-FRI)

**7. E- Tendering Participation Requirements:** Prospective bidders are required to carry out the following activities:

**7.1 Registration:** The tendering process is online at NIC CPP Portal URL address [www.etender.gov.in](http://www.etender.gov.in) Aspiring bidders may go through the tender document by login the CPP portal. Prospective Tenderer are advised to get themselves acquainted for e-tendering participation requirements at “instruction for Online Bid Submission”, register themselves at CPP portal, obtain ‘User ID’ & ‘Password’ and go through the ‘self-help files’ available in the home page after login to the CPP portal [www.etenders.gov.in](http://www.etenders.gov.in) They should also obtain Digital Signature Certificate (DSC) in parallel which is essentially required for submission of their application. The process normally takes 03 days’ time. The Tenderer may also take guidance from AAI Help Desk Support.

**7.2 Login ID :** Bidder shall click ‘Apply for Access Authentication’ and fill in details. On saving the details, a password for the registered bidder shall be generated by the system and the password shall be sent to the bidder’s e-mail ID which was filled in during registration. On receipt of e-mail, the login ID is ready with the bidder to proceed further.

**7.3 General Guidelines for Bidders:** General guidelines for bidders to proceed further in the tender process are available in NIC CPP portal under Self Help Files Tab. Bidders shall go through the guidelines before submitting their bids on-line.

**7.4 Digital Certificates:** Bidder shall have a legally valid class III digital certificate as per Indian IT Act, 2000 from the licensed Certifying Authorities, operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities of India (CCA). Please see [www.cca.gov.in](http://www.cca.gov.in) for licensed CA’s in India.

**7.5 On-Line E - Tendering:** For all AAI tenders hosted on NIC CPP site, all the documents excluding tender fee and EMD shall be submitted off line only. Tender

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

fee and EMD fee DD is to be to be submitted offline; however scanned copy of EMD DD and Tender fee DD is to be uploaded in designated fee folder.

**7.6 Bidder's Training Support System:** On – Line Training and Technical assistance for interested bidders shall be available as follows.

**7.6.1** Detailed information in this regard have been provided to the bidders at NIC CPP portal under the Self Help Tab. Training support system for registered bidders is given inside the portal and visible to the registered bidders only. Bidders may also take the telephonic assistance from Help Desk.

\*\*\*\*\*

**SCOPE OF WORK AND GENERAL INFORMATION**

**1. Purpose & Scope:-**

1.1. This tender set out the terms & conditions be met in connection with the provision of **Supply, Installation, Testing & Commissioning of Computer server and storage solution for GNSS R & D center at SVPI Airport, Ahmedabad** as per specifications given in Annexure-I & Annexure-II of the tender Document.

**1.2. Scope of Work**

1.2.1. GNSS (Global Navigation Satellite System) Research & Development centre for Ionospheric studies and navigation application is being established at SVPI Airport Ahmedabad. Under this project, the data from existing 25 dual-frequency GPS receivers at different Airports will be archived at the GNSS R & D Centre, Ahmedabad through AAI Intranet/Internet or other media in future. Hence the design and development of a central archiving and processing facility for storing all data (Ionospheric data, GPS data in raw and RINEX format etc) and deriving/presenting results and final products is the main objective for the GNSS R & D centre.

1.2.2. This tender document includes details like quantity, delivery, installation, commissioning (including Operating system, virtualization & other software) for the items as tendered for & support services for maintenance, etc.

1.2.3. Supply and installation of all active and passive components as specified in the bill of material and schedule of quantity.

1.2.4. The Computer server and storage solution comprising – 2 computer servers, Storage Attached Network (20TB usable), Next Gen Hardware Firewall, Network switches (2 nos.), KVM switch and monitor shall be installed within the 42U rack with all cables/patch cord, transceiver connectivity. The technical specifications are provided in Annexure-II.

1.2.5. The above hardware is complimented by Windows Server 2019 and VM-ware for creating virtual servers of different applications as per requirement. The technical specifications are provided in Annexure-II.

1.2.6. The 6 KVA UPS (2 nos.) with battery in High availability is required for server and storage power. The technical specifications are provided in Annexure-II.

1.2.7. The UPS and its batteries (in separate rack) shall be installed along with all cable connectivity in adjacent room to server room. The input Power source point to UPS and output of UPS to server room will be extended by AAI.

1.2.8. Configuration of computer servers, work-stations, networking components, storage, operating system, application software, networking environment and UPS etc. as per customer and site requirement.

1.2.9. Vendor shall create user accounts with access policy, in consultation with AAI.

## अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport

- 1.2.10. One Guest account with limited access rights shall be created on both server and workstations.
- 1.2.11. All administrator and user account password shall be handed over to AAI.
- 1.2.12. Laying of backbone cable and connectivity to workstations shall be implemented as per the AAI provided layout plan. The approx. size of site is about 50'x70', in which server room and workstation room are separated by max 50'. The maximum number of nodes could be 10.
- 1.2.13. Backbone shall be highly reliable and scalable network architecture.
- 1.2.14. Design of backbone shall be based on highly fault tolerant network architecture with nil scope of single point failure.
- 1.2.15. The server and storage are to be connected to workstation/ clients (08 nos. already available) in separate room, adjacent to Server room (separated by 50 feet).
- 1.2.16. The required passive networking components as defined in Schedule-A are to be used for proper networking of servers and clients with proper rack dressing.
- 1.2.17. The installation, testing and commissioning of the above items is to done in server room in GNSS R & D centre, Terminal-4, SVPI, Airport, Ahmedabad.
- 1.2.18. The requirement of two Workstations (Windows OS and Linux Each) and MS office professional 2019 (08 nos.) as defined in BOQ/Schedule-A are to supplied and installed separately. Windows OS and Linux are to be installed in supplied Workstations and MS office (08 Nos.) is to be installed in already available workstation and Desktop PC in GNSS R & D Centre. The technical specifications are provided in Annexure-II.
- 1.2.19. Installation/configuration of Windows server, VMware and other required softwares in two Servers.
- 1.2.20. Server Hardware RAID configuration
- 1.2.21. Logical Drive creation (RAID level) in servers.
- 1.2.22. Creation of the virtual servers like data server, application server, web server, file server, domain server, FTP server, IIS, NFS etc. as per requirement.
- 1.2.23. Storage system with full RAID configuration and Logical Drive creation (RAID level) and mapping of disk partitions, if required. Creation of Virtual Disk and LUN assigning in Host Server
- 1.2.24. Supply of standard installation manuals / CDs, Original Software Media, License copy, recovery kits etc.
- 1.2.25. Supply & Installation as per Tender documents, but installation as per site specific and not limited to above only.
- 1.2.26. Vendor shall provide operational & maintenance training to AAI officers nominated by Incharge, CNS-GAGAN.

### 1. Acceptance Test

- After successful installation of the System in accordance with the customer stated requirements, end to end testing shall be conducted in presence of AAI representatives.
- Two copies of the test report and commissioning certificate stating that the

## अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport

system has been installed and commissioned to the requirement of the specification shall be submitted to AAI after handing over the commissioned system.

- The date on which acceptance testing performed successfully in presence of AAI representatives and acceptance report get signed shall be deemed to be considered as the date of successful commissioning of the System.
- Any delay by the Vendor in the Acceptance Testing shall render the Vendor liable to the imposition of appropriate Penalties.

### 2. Deployment of Manpower:

The bidder has to deploy qualified engineer to complete the work as per the scope of the tender document. The person deployed by bidder will work under the supervision of the AAI officer deployed by GAGAN unit Incharge, Ahmedabad.

### 3. Tender Document :

- 3.1. The tender document consists of four Sections and 12 Annexure. The bidder should go through all these sections (Section-I:-Notice Inviting Tender; Section-II:- General E-Tendering Procedure Guideline; Section-III:- Scope of Work and General Information, Section-IV: - Terms & Conditions and Annexure I to Annexure XII) of the tender document and must comply with each clause of all the four sections and Annexure.
- 3.2. The instructions given in the tender document are binding on the bidder and submission of the tender will imply unconditional acceptance of all the terms & conditions by the bidder.
- 3.3. Deviations, if any, from the laid down requirements/ specifications shall be brought out separately in the deviation sheets to be attached with relevant section of the tender. The scanned copy of deviation sheet shall be uploaded along with the technical bid documents.
- 3.4. Each and every page of submitted tender document including technical documentation should be serially numbered & indexed.

### 4. Technical Literature & Brochures, Language

- 4.1. Literature & Brochures are required for all types of Hardware and Software along with installation procedure.

### 5. Address for Correspondence

All completed tender documents and enquiries regarding clarification/interpretation should be uploaded on AAI e-tender portal before the date prescribed in Tender. Address for Correspondence mentioned in **Para 19 of Section-1**.

अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport

**6. Tendering Procedure:-**

**7.1. Envelope – I – Fee Envelope:** Fee envelope should comprise of following documents:

- a. Scanned copy of Tender fee of requisite amount as mentioned in para 2 of Section-I paid off line in the form of DD, in case of non NSIC registered bidders.
- b. Scanned copy of Earnest Money Deposit of requisite amount as mentioned in para 2 of Section-I paid offline in the form of DD, in case of non NSIC registered bidders.
- c. Copy of Valid NSIC/MSME Registration certificate in case of NSIC/MSME bidders claiming for exemption of Tender fee and EMD fee.
- d. During bid evaluation EMD exemption shall be granted to NSIC registered bidder firm. In case NSIC/MSME registration certificate is found invalid during evaluation, the bid of such bidder shall be rejected.

**7.2. Envelope-II: Qualifying requirements of bidder (PQQ document)/ Technical Bid:**

- a. It should comprise of documents listed in Para 15 of Section 1.

**7.3 Envelope – III – Financial Bid: :-**

- The pricing schedule document as per format is given in NIC CPP Portal.
- **No condition, whatsoever, should be stipulated in this part.** Everything that the bidder has to say, regarding tender, other than pricing should be stated only in Technical Bid of the tender. If any conditions are stipulated in the Price Bid of the tender, **the tender is liable to be rejected.**
- Tenders, in which any of the particulars and prescribed information are missing or are incomplete, in any respect and/or prescribed conditions are not fulfilled, shall be considered non responsive and are liable to be rejected.

8. Concessions to Small Scale Industries (SSI) Units & Central Public Sector Enterprises (CPSEs) will be applicable as per Govt. of India guidelines.

**9. Opening of Tender Documents:-**

- 9.1. AAI shall open FEE Envelop Bids as per scheduled Tender Opening Date and Time.
- 9.2. AAI will inform the schedule date and time of opening of PQQ/Technical bid to qualified bidders. Authorized representatives of AAI shall download all the up-loaded documents against “PQQ” and evaluate bids for Pre- qualification. Bidders may remain present at the venue i.e. AAI’s premises during the

## अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport

opening of “PQQ/Technical” or Bidders can monitor the “PQQ/ Technical” opening process On-line.

- 9.3. To shortlist PQQ/ Technical qualified bidder, PQQ/Technical Bids of eligible bidders shall be scrutinized by AAI to ensure whether the same are in conformity with the operational requirement & technical specifications. Bidder should provide complete information to substantiate compliance of the technical specifications listed in the tender. In case of incomplete compliance statement or inadequate information, tenders shall be finalized on the basis of the information available. It shall, therefore, be in the bidders' interest to give complete and comprehensive technical particulars, description and details while submitting the bid.
- 9.4 AAI may seek clarifications on technical details or any other information deemed necessary. The queries raised should be replied positively within the time specified, failing which the evaluation will be done on the basis of the information available. **Such queries raised on-line on NIC CPP portal shall be replied on-line positively by the bidder, within the time specified, failing which the evaluation shall be done on the basis of the information available.**
- 9.5 Price Bid, only for the bidders found PQQ/technically qualified by AAI shall be opened. For E-Tender, Date and Time of opening of financial bid shall be notified to successful bidders through NIC CPP Portal. Bidders may present at the venue during opening of financial bid or can monitor On-Line the bid opening process.
- 9.6 No correspondence shall be entertained from the bidders after opening of Price Bid of the Tender. Date of acceptance and opening of tender can be extended on sole discretion of Jt. GM(CNS-GAGAN).**

### 10 Comparison and Evaluation of Tenders :

- 10.1. The tenders received and accepted will be evaluated by AAI to ascertain the complete scope contained in the tender document. The objective of the evaluation is to select a bidder that can provide the desired service with maximum efficiency and quality and meeting the Technical requirements defined in **Annexure - II**.
- 10.2. In the evaluation of tenders, the overall quality and economy of the system offered will be kept in view. Such offers which necessitate, additional expenditure required to be made by AAI may have to be loaded to make the offer compatible with the tender document requirement.
- 10.3. Tenders meeting PQQ/Technical bid criteria as specified herein shall only be informed and considered for opening and evaluation of financial bid. However, tenders not meeting PQQ/Technical bid criteria shall be informed for not meeting the PQQ/ technical bid criteria
- 10.4. The tenders found technically acceptable on evaluation of PQQ/Technical shall be compared on the basis of price quoted by the bidders for the entire scope of proposal. The amount indicated in the pricing schedule **“Schedule-A”** will only be taken for price comparison. The lowest Tender shall be decided on the basis of lowest **Net Cost to AAI i.e. Lowest Quote.**

### 11. Conversion Basis of Tenders: Not Applicable

अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport

**12. Rejection & Return of Tender:**

Airports Authority of India reserves the right to reject any or part of tender without assigning any reason. The un-opened price bids for the bidders which do not technically qualify to participate in price bid opening shall be returned back after finalizing the award of tender, if requested by the bidder. AAI also reserves the right at its sole discretion not to award any order under the tender called. AAI shall not pay any cost incurred in the preparation and submission of any tender or any cost incidental to it.

- 12.1. Tenders, in which any of the particulars and prescribed information is vague, missing or is incomplete, in any respect and/or prescribed conditions are not fulfilled, shall be considered non-responsive and are liable to be rejected. If the bidder gives wrong information in his tender, AAI reserves the right to reject such tender at any stage or to cancel the Contract, if awarded and forfeit the Earnest Money Deposit. AAI reserves the right to debar such bidders to participate in future tender.
- 12.2. The information contained in the tender should be comprehensive and to the point. The tenders containing information other than sought, with a motive to confuse or delay the finalization process are likely to be rejected.
- 12.3. Canvassing in any form in connection with the tenders is strictly prohibited and the tenders submitted by the Contractors who resort to canvassing are liable for rejection.
- 12.4. Should a bidder have a relation or relations employed in the capacity of an officer of AAI, the authority inviting tender shall be informed of the fact along with the offer, failing which AAI, at its sole discretion may reject the tender or cancel the contract and forfeit the Earnest Money Deposit.

**13. Award of Contract**

- 13.1. The acceptance of the tender will be intimated to the successful bidder by issuing letter of intent. On receipt of letter of intent successful bidder shall send unconditional acceptance of letter of intent to the **Jt. General Manager (ATSEP-GAGAN) Airports Authority of India, SVPI Airport Ahmedabad** within five working days of issue of letter of intent through Email /Fax/ Courier / by authorized representative or as deemed appropriate, failing which it should be constituted that he is not interested in the offer and hence not accepted the letter of intent unconditionally.
- 13.2. AAI shall issue the purchase order to successful bidder on receipt of acceptance of letter of intent. Successful bidder shall return one copy of purchase order within three working days as a confirmation to acceptance of terms and conditions of purchase order duly signed by him on each page of the order.
- 13.3. Successful bidder has to enter into an agreement with AAI on terms and conditions mentioned in the tender, its corrigendum and technical queries and responses against which purchase order has been issued. The agreement shall be executed on a non-judicial stamp paper of `100/- (Rupees One hundred only) and the cost of stamp paper shall be borne by the contractor.

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

13.4. AAI shall be the sole judge in the matter of award of contract and the decision of AAI shall be final and binding.

**14. Consignee:-**

प्रभारी सीएनएस /संयुक्त महाप्रबन्धक (संचार-गगन)/Jt. GM (ATSEP-GAGAN)  
भारतीय विमानपत्तन प्राधिकरण,/Airports Authority of India,  
सरदार वल्लभभाई पटेल अंतरराष्ट्रीय हवाई अड्डा,/ SVPI Airport  
अहमदाबाद फ़ैक्स: 079-22867939/ Ahmedabad, Fax: 079-22867939

**15. Execution of Works**

15.1. The works shall be carried out under the supervision of the In-charge CNS-GAGAN according to the terms and conditions of the contract.

**16. Declaration :**

16.1. The General Information and Guidelines given in the Tender Document are hereby accepted unconditionally and shall be complied with.

\*\*\*\*\*

Signature of Bidder

Name: .....  
Telephone: .....  
Fax: .....  
E-mail: .....

Stamp: .....

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport**

**Section-IV**

**TERMS & CONDITIONS**

**1 Standards & Proven Product**

Not Applicable

**2. Time/Delivery**

All delivery of the material will have to be completed within 30 days from the date of acceptance of contract. All activities leading to the commissioning of the contract to be completed within 45 days from the date of award. CNS-GAGAN Incharge shall appoint an officer on behalf of him/her or his authorized representative for the purpose of implementation & monitoring of the work.

**3 Liquidated Damages (L.D.)**

3.1 In case of delay in completion of the contract, liquidated damages (L.D.) shall be levied @ 1% of the full value of uncompleted portion of work per week (part of week to be treated as one week) subject to a maximum of 10% of total contract value. If the uncompleted work, restrict the operation of complete system then LD shall be applicable to total value of contract with approval of Competent Authority.

**4 Time: The Essence of Contract.**

The time and date of completion of the works as contained in the supplier proposal and as agreed to contractually after modifications, if any, shall be final and binding upon the supplier. It must be understood that the supplier has made the proposal after fully considering all such factors which may have any bearing on the time schedule of the contract, and no extension in the schedule whatsoever.

**5. Delay & Non-Conformance**

5.1 In case of time schedule including approved delay with or without levy of liquidated damages for late delivery of or late completion of SITC whichever if applicable as contained in Para 2 & 3 above not being adhered to, AAI shall have the right to cancel the order wholly or in part thereof without any liability of cancellation charges and procure the goods elsewhere in which case the successful bidder shall make good the difference in the cost of goods procured elsewhere and price set forth in the order with the successful bidder.

**6. Deductions from Contract Price**

6.1 NA

**7. Right to Accept or Reject the Tenders**

7.1 The right to accept the tender in full or in part/parts will rest with AAI. However, AAI does not bind itself to accept the lowest tender and reserves to itself the authority to reject any or all the tenders received without assigning any reason whatsoever.

7.2 Tenders, in which any of the particulars and prescribed information is missing or is incomplete, in any respect and/or prescribed conditions are not fulfilled, shall be considered non responsive and are liable to be rejected.

**8 Termination of Contract at Purchaser's Initiative**

8.1 The AAI reserves the right to terminate the contract either in part or in full due to the reasons other than specified herein. The AAI shall in such an event give 15 days' notice in writing to the Contractor of their decision to do so.

8.2 The Contractor upon receipt of such notice shall discontinue the work on the date and to the extent specified in the notice, make all reasonable efforts to obtain cancellation of all orders and contracts to the extent they are related to the work terminated and terms satisfactory to the AAI, stop all further subcontracting or purchasing activity related to the

## अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport

work terminated, and assist the AAI in maintenance protection, and disposition of the works acquired under the contract by the AAI.

### **9 Earnest Money Deposit (EMD)**

9.1 Tenders not accompanied by the requisite EMD or proof of exemption from EMD shall be rejected.

9.2 EMD shall be refunded to bidders who fail to qualify Pre-qualification criteria or Technical qualification criteria immediately after PQ / Technical evaluation report is accepted.

9.3 The EMD of the successful bidder will be returned only after the successful bidder submits the performance guarantee in the prescribed Performa, as required in Para 10 of this section.

9.4 If the successful bidder fails to submit the performance guarantee and fails to enter into an agreement with AAI within 30 calendar days after the date of acceptance of P.O., the EMD amount shall be forfeited and purchase order shall be cancelled.

9.5 No interest or any other expenses, whatsoever, will be payable by AAI on the EMD in any manner.

### **10 Performance Bank Guarantee**

10.1 The bidder, whose tender is accepted, shall within 30 calendar days of the issue of letter of acceptance of the bid, shall submit unqualified performance guarantee of 10% (Ten Per Cent) of the total price to AAI in the form of an irrevocable and unconditional bank guarantee on a Nationalized / Scheduled Bank, as per Performa attached as Annexure- IV.

10.2 In case, the successful bidder fails to submit the PBG within stipulated period, interest @ 12% p.a. on Performance Guarantee amount would-be levied (non-refundable) for delayed period of submission and shall be deducted from EMD.

In case successful bidder fails to submit performance bank guarantee within 60 days, AAI reserves the right to forfeit EMD and cancel the order.

10.3 The Performance Guarantee **shall be valid for 6 months beyond the warranty period as per Para 16 of Section-IV** or shall remain valid as per provisional extension granted by AAI. If the agency fails to extend the validity of the Performance Guarantee, the same shall be encased by AAI with or without notice.

10.4 The guarantee amount shall be payable to AAI without any condition whatsoever and the guarantee shall be irrevocable.

10.5 The performance guarantee shall be deemed to govern the following guarantees from the successful bidder, in addition to the other provisions of the guarantee.

10.6 The successful and satisfactory operation of the equipment supplied in accordance with the specifications and other relevant documents.

10.7 The equipment supplied shall be free from all defects of design, material and workmanship and upon written notice from AAI, the successful bidder shall fully remedy, free of expenses to AAI, all such defects as developed under the normal use of the said equipment within the period of guarantee/warranty.

10.8 The performance guarantee is intended to secure the performance of the entire equipment. However, it is not to be construed as limiting the damages stipulated in any other clause.

10.9 The performance guarantee will be returned to the successful bidder at the end of the period of liability without interest.

## अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport

### 11 Force Majeure

11.1. AAI may grant an extension of time limit set for the completion of the work in case the timely completion of the work is delayed by force majeure beyond the contractor's control, subject to what is stated in the following sub paragraphs and to the procedures detailed there in being followed. Force majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.), acts of states, the direct and indirect consequences of wars (declared or un declared), hostilities, national emergencies, civil commotions and strikes (only those which exceed a duration of ten continuous days) at successful Bidders factory. The successful bidder's right to an extension of the time limit for completion of the work in above mentioned cases is subject to the following procedures:

11.1.1 That within 10 days after the occurrence of a case of force majeure but before the expiry of the stipulated date of completion, the bidder informs the AAI in writing that the Bidder considers himself entitled to an extension of the time limit.

11.1.2 That the Successful Bidder produces evidence of the date of occurrence and the duration of the force majeure in inadequate manner by means of documents drawn up by responsible authorities.

11.1.3 That the Successful Bidder proves that the said conditions have actually been interfered with the carrying out of the Contract.

11.1.4 That the Successful Bidder proves that the delay occurred is not due to his own action or lack of action.

11.2 Apart from the extension of the time limit, force majeure does not entitle the successful bidder for any relaxation or to any compensation of damage or loss suffered.

### 12 Arbitration and Laws

12.1 Except where otherwise provided for in the contract, all questions and disputes relating to the meeting of the specifications, designs, drawings, and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works, or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be settled within thirty (30) days (or such longer period as may be mutually agreed upon) from the date that either party notifies in writing that such dispute or disagreement exists. Provided that any dispute that remains unresolved shall be settled under the Rules of Indian Arbitration and Conciliation Act, 1996, The venue of Arbitration shall be Ahmedabad, India. The arbitration award shall be final and binding upon the parties and judgment may be entered thereon, upon the application of either party, by any court having jurisdiction.

12.2 Indian laws shall govern this contract.

### 13 Price :

13.1 The bidder shall confirm that quoted prices shall be firm and fixed and subject to no escalation whatsoever till the validity period of the tender.

13.2 The rates shall be entered in figures as well as in words. For the purpose of the tender, the metric system of units shall be used. In the event of any discrepancy, the unit

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

price quoted in words will be taken as the correct basis. Follow the instructions available on NIC-CPP Portal.

13.3 In case of item rate tender, only rates quoted shall be considered. Bidder shall quote the rates in figures as well as in words (In English language only). The rates quoted in figures shall be in International numerals and whole numbers. The amount for each item shall be worked out and the all requisite totals given. Special care shall be taken to write rates in figures as well as in words, and the amounts in figures only. The Total Amount shall be written both in figures and in words. Follow the instructions available on NIC-CPP Portal

13.4 The rates should include patent rights, if any

13.5 That if on checks there are differences between the rates given by the contractor in words and figures or in amount worked out by him, the following procedures should be followed:

a) When there is a difference between the rates in figures and in words, the rates which correspond to the amounts worked out by the contractor, should be taken as correct.

b) When the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or inwards, then the rate quoted by the contractor in words should be taken as correct.

c) When the rate quoted by the contractor in figures and in words tallies but the amount is not worked out correctly, the rate quoted by the contractor should be taken as correct and not the amount.

d) In case of percentage rate tender, the contractors are required to quote their rates both in amount as well as in the percentage below/ above the rates entered in the schedule. In such cases, in the event of arithmetical error committed in working out the amount by the contractor, the tendered percentage and not the amount should be taken into account.

e) If agency fail to quote the rate in word & in figure and amount(both) the same shall be assume to be included in the total tendered amount.

**13.6 Cost of Freight and Insurance:**

All Material shall be fully insured by the contractor. The cost of Insurance and Freight shall be paid by the contractor.

**13.7 GST:**

Bidders shall quote prices inclusive of GST. AAI shall reimburse the GST against the production of GST challan towards payment of GST.

**13.8 Others Taxes :**

Price quoted shall be inclusive of cost of all taxes and duties applicable including all applicable inland taxes in India (if any).

13.9 In case of Public Sector Undertakings (Govt. of India) and SSI, registered with NSIC under single point registration scheme entitled for purchase preference facilities under the existing policy of Govt. of India, necessary price break-up indicating clearly the value added content of the manufacturer must be indicated in the pricing schedule.

13.10 **Detailed List of deliverables** – (Bill Of Quantity) with Make & Model/ Part No. of equipment and accessories offered - fully meeting the operational and technical requirement as spelt out in Section-III and Annexure-II of tender shall be attached with duly filled Annexure-I. The above detailed list of deliverables should also be submitted along with the Technical Bid.

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport**

**14 Validity of Tender :**

14.1 The tender must remain valid for a minimum of 180 days from the last date of submission of tender closing of the tender.

**15 Terms of Payment**

Payment to the Contractor shall be made in the following manner:-

15.1 No mobilization advance shall be paid for any activity.

15.2 70% of the payment will be made after receipt of goods at site in good condition on submission of the following documents in ORIGINAL

a) Invoice + 2 copies

b) Itemized Packing list with cost of each item +2copies

c) Proof of dispatch of /Delivery Challan

d) Certificate of goods received at site in physically good condition and certified by the AAI representative.

15.3 The balance 30% payment will be made after successful installation and testing and on submission of following documents:

a) Acceptance Report duly Sign by AAI representative.

15.4 TDS will be deducted as applicable.

**16 Guarantee/Warranty:**

All goods / materials and Cabling / Labour work shall be supplied / carried out strictly in accordance with the specifications, drawings, datasheets, other attachments and conditions stated in the Bid / Order / LOI. All materials supplied by the Vendor shall be warranted to be of the best quality of their respective kinds and shall be free from faulty design, workmanship and materials. In event of default originating with the design, material arising at any time during the **warranty period of 60 months from the date of acceptance report**, the Vendor shall replace as may be necessary to ensure the material should function in accordance with the specification and to fulfil the foregoing Warranty without any delay at his own expense (including freight, duty and customs for sent for repair) and at no cost to AAI. The Vendor shall warrant that every work executed under the contract shall be free from all defects and faults in material, workmanship etc. for a period of 60 (Sixty) months from the date of acceptance report.

**17.** The Bidder/OEM will warranty that products supplied under the contract are newly made and are free from defects in the design, engineering and workmanship. The bidder would be responsible for the up keep and maintenance of the infrastructure and necessary deliverables under the scope of work during the entire warranty period, as mentioned in Bill of Material, from the date of final acceptance of the system by the customer. The bidder shall not, without the express prior written consent of AAI, assign to any third party of the contract or part thereof. Service support for the entire warranty period (five years from the final acceptance from the customer) will be on site and comprehensive (including spares) and free of cost for the entire warranty period.

17.1 AAI reserves the right to encash complete value of performance Bank guarantee if the performance of supplied is not satisfactory without assigning any reason.

## अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport

### 17.2 Operational Maintenance During Warranty Period

The contractor shall replace any parts; found defective during warranty period without any charges whatsoever to AAI. During warranty period, the contractor shall provide free replacement of any defective spares of the equipment supplied against this work.

18 **Factory Inspection** : Not Applicable

19 **Acceptance Test & Commissioning** :

19.1 It will be the responsibility of the vendor to submit the system test procedure carried out for conducting the post installation acceptance testing.

19.2 The system will be commissioned after successful completion of acceptance testing, operational & maintenance training and all the works under the scope of the tender.

19.3 Installation will be termed as completed after successful completion of testing in presence of AAI representative and signing of acceptance report.

### 20. **Packing and Marking:**

All packing should be strong enough to withstand rough handling during loading, un-loading and transporting of the packages.

All delicate surfaces of goods should be carefully protected and painted with protective paint/compound and wrapped to prevent rusting and damage.

All protrusions and threaded fittings shall be suitably protected and openings shall be blocked by covers.

Wherever required material shall be packed in polyethylene bags and silica gel or similar dehydrating compound shall be put inside the bags to protect them. Pipes/tubes made of stainless steel; copper etc. shall be packed in wooden crates irrespective of their sizes. The supplier shall be held liable for all damages or breakage of the goods attributable to defective or insufficient packing as well as for corrosion due to insufficient protection.

### 21. **Patents, Successful Bidder's Liability & Compliance Of Regulations**

21.1 Successful bidder shall protect and fully indemnify AAI from any claims for infringement of patents, copy right, trade mark or the like.

21.2 Successful bidder shall also protect and fully indemnify AAI from any claims from successful bidder's workmen/employees, their heirs, dependents, representatives etc. or from any other person(s) or bodies/companies etc. for any act of commission or omission while executing the order.

21.3 Successful Bidder shall be responsible for compliance with all requirements under the laws and shall protect and indemnify AAI completely from any claims/penalties arising out of any infringements

### 22 **Substitution & Wrong Supplies** :

Unauthorized substitution or materials delivered not complying with the description or quality or supplied in excess quantity or rejected goods shall be taken back by the Successful Bidder at his cost and risk.

Substitute items are not permitted, however depending upon certain unavoidable circumstances, AAI may consider so. Bidder shall not substitute any item at the time of delivery against the item mentioned in purchase order, without written approval from

## अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport

Airports Authority of India. AAI, solely its own discretion may accept the higher version of item of same make and better Technical specifications.

### 23 Insurance, Freight:

All shall be fully insured by the contractor. The cost of Insurance and Freight shall be paid by the contractor.

### 24 Dispatch of Documents:

The successful bidder shall forward sets of the following documents, as soon as goods are dispatched.

- a) Invoice + 2 copies
- b) Itemized Packing list with cost of each item + 2 copies
- c) Proof of dispatch of items

### 25 TAXES, PERMITS AND LICENCES:

In case supplies are delayed for reasons attributed to the suppliers, the increased rate of statutory taxes shall be borne by the supplier. However, any benefit accruing due to decrease in statutory taxes shall be passed on to AAI.

### 26 Miscellaneous

26.1 In addition to the above any other information / description, the bidders may wish to provide, like the features / performance figures specified/indicated should be with supporting documents / Calculations. All figures indicated by the bidders must be fully qualified and subject to coordinated performance.

26.2 AAI reserves the right to change the quantity to be supplied to the extent to  $\pm 25\%$  of the tendered quantity or part thereof, indicated in Annexure-I, at the time of placement of purchase order.

26.3 AAI reserves the right to place repeat order, within validity of contract period i.e. expiry of warranty as mentioned in contract, not exceeding 50% the quantity of the original order.

### 27 Novation Clause:

Obligations relating to Transfer The Authority agrees that during the Concession Term, in the event the Authority transfers the rights to operate and maintain the Airport to a third party(s), the Authority shall ensure that :

(a) The Authority shall cause to transfer/novate this Agreement, in favour of such third party, on the principle that such transfer/novation would release Authority of all liabilities and obligations arising from and after the date of transfer/novation of such rights. The Parties, along with relevant third party(s) shall execute necessary documentation or put in place necessary agreements for the aforesaid transfer/novation; and

(b) the rights and obligations under or pursuant to all contracts and other arrangements entered into in accordance with the provisions of this Agreement between Authority and Concessionaire shall be vested in such third party.

### 28. Additional SOFTWARE LICENCES (IF APPLICABLE)

The Vendor shall be responsible for providing Software (System Software, Application Software, Device Drivers, IOS, etc) required, if any, to meet any additional requirements during the currency of the Agreement without any additional cost to AAI. All license

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport**

software must be in the name of AAI. The ownership of any customized software involved, will be with AAI.

**29. INSTALLATION OF ADDITIONAL HARDWARE (IF APPLICABLE)**

During the currency of the Agreement, for any additional requirement of equipment including interface equipment, the specifications will be provided by the Vendor. AAI will verify suitability of the specifications submitted by Vendor and recommend to AAI for acceptance. The Vendor will be obligated to undertake integration, operation and maintenance for all additional equipment if required.

**30 Contract Agreement**

30.1 The Successful bidder is required to Sign a Contract Agreement with AAI on a non-judicial Stamp paper of Rs.100/- to endorse the terms and condition of this tender, within 10 days from the date of acceptance of the work order.

30.2 The Cost of obtaining Stamp paper, typing & printing is to be borne by the successful bidder.

Signature of Bidder

Name: .....

Telephone: .....

Fax: .....

E-mail :.....

Stamp:.....

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**Annexure-I**

**Bill of Quantity**

(As per Tender Document)

**Name of Work:** Supply, Installation, Testing and Commissioning of Computer Server and Storage Solution for GNSS R & D Centre, SVPI, Airport, Ahmedabad

<b>Sl. No.</b>	<b>Item</b>	<b>Description</b>	<b>Qty</b>	<b>Offered Make/Model</b>
1	Computer Server	Rack mount with 18C Proc, 2.6 GHz, 128 GB RAM, 2 x 240 Gb SSD, 5 Yr Warranty	2	
2	Windows Server Standard 2019 Core License 16 core	SNGL OLP 16Lic NL CoreLic	2	
3	Windows Server Standard 2019 Core License 2 cores	SNGL OLP 2Lic NL CoreLic	2	
4	Windows Server Client Access License (CAL) 2019	SNGL OLP NL DvcCAL	10	
5	Storage System-SAN	Storage Attached Network (SAN) 20 TB usable capacity in RAID 6 & hot spare (SSD+NLSAS Mixed), 5 yrs warranty	1	
6	Network Switch – 24 port	24 x1G port + 2x10G Port BaseT+ 2x10G SFP+ Ethernet Switch in HA 5Yrs warranty	2	
7	Next Generation Firewall- Hardware	AGSS Firewall, VPN, ISP Load Balancing & Failover, Bandwidth Management & QoS, Authentication, AD Integration, User Management, Gateway Anti Virus, Anti Malware, Web & URL Filtering, Application Control, IDS, IPS, DDos Protection, Botnet Filtering, DPI SSL (Encrypted Traffic	1	

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

		Inspection for Threats), Sand boxing for Unknown Threat Protection, Ransomware Protection, 5Years warranty		
8	6KVA UPS with battery & racks	6 KVA UPS in High Availability with battery bank and racks 5 yrs UPS warranty, 2 yrs battery warranty	2	
9	a. 8-port KVM Switch with cables	Standard 8-ports multiplatform KVM Switch with min. 1.5m length cables, 5 yrs warranty	1	
10	b. 17" Rack mount KVM LCD monitor	Rack Mountable standard 17 inch LCD Monitor with rack mounting Plates/ Kits, 5 yrs warranty	1	
11	c. Rack 42U	Standard 42U 19" rack With required number of power connection strips and individual power-on switch for mounting servers, storage, Ethernet switches, network devices, monitor etc.	1	
12	MS Office Professional 2019- Software	MS Office Prof 2019 software plus perpetual license for individual machine	8	
13	VMware vSphere Essentials Plus Kit- Software with license	VMware vSphere Essentials Plus Kit for 3 hosts (Max 2 processors per host)- latest version	1	
14	Workstation with Windows OS	Intel Xeon E3 Processor,4 core, 3.5 GHz or above, 8 MB Cache or higher, 32 GB RAM, 1TB HDD, 24" Monitor, Windows OS, 5 yrs warranty	1	

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

15	Workstation with Linux	Intel Xeon E3 Processor,4 core, 3.5 GHz or above, 8 MB Cache or higher, 32 GB RAM, 1TB HDD, 24" Monitor, Ubuntu / RHEL, 5 yrs warranty	1	
16	UTP Cat6 cable 305 mtr	Standard items of DLINK/Molex	2	
17	24-port jack panel	Standard items of DLINK/Molex	1	
18	Cat6 patch cord 2 mtr	Standard items of DLINK/Molex	16	
19	Cat6 Datagate shutter jack	Standard items of DLINK/Molex	16	
20	Installation and Configuration		1 Lot	

**Port Consignee:**

The Office of Jt. GM (ATSEP) GAGAN,  
Terminal 4 Building,  
SVPI Airport,  
Ahmedabad - 380003

I/We have carefully read and understood the terms and conditions of the arrangements for the supply of listed items and the prescribed specifications for which this Tender is submitted and in the event of my/our Tender being approved we undertake to strictly comply with them.

**Signature of the Bidder / Authorized Signatory:**\_\_\_\_\_

**Name:** \_\_\_\_\_

**Telephone:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Stamp:** \_\_\_\_\_

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**Annexure: II**

**TECHNICAL SPECIFICATIONS COMPLIANCE STATEMENT**

**1. TECHNICAL BID FORMAT FOR COMPUTER SERVER (Qty - 02 Nos.)**

<b>Make:</b>		<b>Model:</b>		
<b>Sl No.</b>	<b>Parameter/ Features</b>	<b>Requirement</b>	<b>Compliance (Y/N)</b>	<b>Remarks/ Deviation</b>
1	Chassis/ Form Factor	Max 2U - Rack Mountable with sliding rails		
2	CPU	Single Populated of latest generation Intel Xeon-Gold, Min 18 Cores, Min 2.6 GHz, 24.75 MB L3 cache or higher		
3	Motherboard	Intel® C621 Series Chipset		
4	Memory	24 DDR4 DIMM slots RDIMMS & LRDIMMS. Populated with 128 GB DDR4 RDIMM, 2933 MHz. Scalable upto 1.5TB using DDR4 memory. Should be capable of identifying and reporting whether genuine OEM memory is installed for system reliability. System should support persistent memory. While the server is powered off, data should be saved in the NAND flash memory of each persistent memory DIMM to restore when power is on		
5	Persistent memory	System should support persistent memory at over 1TB scale to deploy in-memory database		
6	Memory Protection	Advanced ECC with multi-bit error protection, Online spare, mirrored memory and fast fault tolerance		
7	HDD Bays	Front drive bays: Up to 16 x 2.5" SAS/ SATA/ SSD Up to 8 x 3.5" SAS/SATA  The drive carrier should have intuitive icon based display along with "DO NOT REMOVE" caution indicator that gets activated automatically in order to avoid data-loss/downtime due to wrong drive removal.		
8	Hard disk drive	Min 2 x 240GB SSD Hot Plug SFF drives		
	RAID Controller	12Gb/s SAS Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

9		Mirroring/10 Advanced Data Mirroring with 2GB battery backed write cache (onboard or on a PCI Express slot) Storage controller should support Secure encryption/data at rest Encryption		
10	Networking features	1Gb 4-port network adaptors 10GBaseT 4-port Ethernet adaptor Infiniband support Options: 40Gb dual port or 100Gb Single or Dual port Adapter		
11	Host Bus Adapter	Dual Port 16 Gbps Fibre Channel Controller Card (for connectivity to external storage)		
12	Interfaces	Serial - 1 Micro SD slot - 1 USB 3.0 support - Min 5 : Min 1 front, 2 rear, 2 internal (secure)		
13	Bus Slots	Six PCI-Express 3.0 slots, atleast two x16 PCIe slots		
14	Power Supply	hot plug redundant low halogen power supplies with minimum 94% efficiency		
15	Fans	Redundant hot-plug system fans		
16	Industry Standard Compliance	ACPI 6.1, PCIe 3.0 Compliant PXE, WOL Support Microsoft® Logo certifications USB 3.0 Support Energy Star ASHRAE A3/A4 UEFI (Unified Extensible Firmware Interface Forum)		
17	System Security	UEFI Secure Boot and Secure Start support Security feature to ensure servers do not execute compromised firmware code FIPS 140-2 validation Common Criteria certification Configurable for PCI DSS compliance Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser Support for Commercial National Security Algorithms (CNSA) mode to prevent the use of insecure algorithms Tamper-free updates - components digitally signed and verified Secure Recovery - recover critical firmware to known good state on detection of compromised firmware Ability to rollback firmware		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

		Secure erase of NAND/User data TPM (Trusted Platform Module) 1.2 option TPM (Trusted Platform Module) 2.0 option Bezel Locking Kit option Chassis Intrusion detection option		
18	Operating Systems and Virtualization Software Support	Microsoft Windows Server Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) VMware ClearOS		
19	GPU support	System should support NVIDIA's latest computational accelerators and graphics accelerators		
20	System tuning for performance	1. System should support feature for improved workload throughput for applications sensitive to frequency fluctuations. This feature should allow processor operations in turbo mode without the frequency fluctuations associated with running in turbo mode 2. System should support workload Profiles for simple performance optimization		
21	Secure encryption	System should support Encryption of the data (Data at rest) on both the internal storage and cache module of the array controllers using encryption keys. Should support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.		
22	Warranty	Warranty of 5-Year with Onsite support on 24 x 7		
23	Provisioning	1. Should support tool to provision server using RESTful API to discover and deploy servers at scale 2, Provision one to many servers using own scripts to discover and deploy with Scripting Tool (STK) for Windows and Linux or Scripting Tools for Windows PowerShell		
24	Firmware security	1. For firmware security, system should support remote management chip creating a fingerprint in the silicon, preventing servers from booting up unless the firmware matches the fingerprint. This feature should be immutable 2. Should maintain repository for firmware and drivers recipes to aid rollback or		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

		patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware		
25	Embedded Remote Management and firmware security	<p>1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication</p> <p>2. Server should have dedicated 1Gbps remote management port</p> <p>3. Remote management port should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware</p> <p>3. Server should support agentless management using the out-of-band remote management port</p> <p>4. The server should support monitoring and recording changes in the server hardware and system configuration. It assists in diagnosing problems and delivering rapid resolution when system failures occur</p> <p>5. Applications to access the server remotely using popular handheld devices based on Android or Apple IOS should be available</p> <p>6. Remote console sharing upto 6 users simultaneously during pre-OS and OS runtime operation, Console replay - Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support. Should provide support for AES and 3DES on browser. Should provide remote firmware update functionality. Should provide support for Java free graphical remote</p>		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

		<p>console.</p> <p>7. Should support managing multiple servers as one via</p> <p>Group Power Control</p> <p>Group Power Capping</p> <p>Group Firmware Update</p> <p>Group Configuration</p> <p>Group Virtual Media</p> <p>Group License Activation</p> <p>8. Should support RESTful API integration</p> <p>9. System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support</p>		
26	Server Management	<p>Software should support dashboard view to quickly scan the managed resources to assess the overall health of the data centre. It should provide an at-a-glance visual health summary of the resources user is authorized to view.</p>		
		<p>The Dashboard minimum should display a health summary of the following:</p> <ul style="list-style-type: none"> <li>• Server Profiles</li> <li>• Server Hardware</li> <li>• Appliance alerts</li> </ul>		
		<p>The Systems Management software should provide Role-based access control</p>		
		<p>Management software should support integration with popular virtualization platform management software like vCenter, and SCVMM</p>		
		<p>Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.</p>		
		<p>Should provide an online portal that can be accessible from anywhere. The portal should provide one stop, online access to the product, support information and provide information to track warranties, support contracts and status. The Portal should also provide a personalized dashboard to monitor device health, hardware events, contract and warranty status. Should provide a visual status of individual devices and device groups. The Portal should be available on premise (at</p>		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

		our location - console based) or off premise (in the cloud).		
		Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.		
		The Server Management Software should be of the same brand as of the server supplier.		
27	Cables and Connectors	All the components including cables, connectors, Transceivers, Patch Cords to be provided		
28	<b>Software Licenses:</b>  <b>Windows OS Core and Client access License</b>	<b>Supply and installation of :</b>		<b>Model/Part no:</b>
		Windows Server Standard Core 2019 SNGL OLP 16 Core license		
		Windows Server Standard Core 2019 SNGL OLP 2 Core license		
		Windows ServerCal 2019 Client Access Licence (CAL) SNGL OLP for 10 devices per server		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**2. TECHNICAL BID FORMAT FOR STORAGE SYSTEM (QTY- 01 NO.)**

<b>Make:</b>		<b>Model:</b>		
<b>Sl. No.</b>	<b>Features/Parameter</b>	<b>Requirement/Functionality</b>	<b>Compliance (Y/N)</b>	<b>Remarks/Deviation</b>
1	Operating System & Clustering Support	1. Support industry-leading Operating System platforms including: Windows 2012R2/2016/2019 VMware and Linux. 2. Support all above operating systems in Clustering.		
2	Capacity & Scalability	Min 2 x 800 GB SAS Mix Use SSD and 20TB usable Capacity in RAID 6 using NLSAS drives . Scalable to minimum of 120 number of SAA SFF drives.		
3	Front-end Ports	Minimum of 4 x 16Gbps FC ports per controller with SFP Trans-Receiver or minimum of Dual 16Gbps FC ports and Dual 10Gbps ISCSI ports per controller.  Flexibility to use all above ports either as FC or ISCSI by replacing the requisite SFP. Vendors shall provide the additional SFP accordingly. In case, vendor doesn't support this feature, then every controller shall be populated upfront with 4 x 16Gbps FC ports and 4 x 10Gbps ISCSI ports.		
4	Architecture	The storage array should support dual, redundant, hot-pluggable, active-active array controllers for high performance and reliability		
5	No Single point of Failure	Offered Storage Array shall be configurable in a No Single Point of failure including Array Controller card, Cache memory, FAN, Power supply etc.		
	Cache	1. Offered Storage Array shall be given with Minimum of 8GB cache per controller in a single unit.		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

6		<p>2. Cache shall be backed up in case of power failure for indefinite time either using batteries or capacitors or any other equivalent technology.</p> <p>3. Offered Storage shall also have optional support for min 3TB Flash cache using SSD / Flash drives. Vendor should provide min 2 x 960 GB Flash cache</p> <p>4. Offered Flash cache shall be tuned for random read operations and shall remain activated even at less than 70% of random average read workload.</p>		
7	Raid Support	<p>1. Shall support Raid 0, 1, 1+ 0, 5 and Raid 6</p> <p>2. All Raid Sets shall support thin provisioning. Vendor shall offer the license of thin provisioning for complete supported capacity of the array.</p> <p>3. Thin provisioning shall be supported with offered Flash Cache.</p>		
8	Point in time and clone copy	<p>1. Offered Storage array shall be configured with array based Snapshot and clone functionality and shall be configured for minimum of 64 snapshot licenses and shall support upto 512 snapshot license.</p>		
9	Virtualization and Thin provisioning	<p>1. Offered storage shall be offered and configured with virtualization capability so that a given volume can be striped across all spindles of given drive type within a given disk pool. Disk pool shall support all listed raid sets of Raid 1, Raid 5 and Raid 6.</p> <p>2. Offered Storage shall be offered and configured with Thin Provisioning capability.</p>		
10	Data Tiering	<p>Offered Storage shall also be configured for Sub-Lun Data tiering in real time fashion across different type of drives within a given pool like SSD, SAS, NL-SAS etc. License shall be configured for maximum supported capacity of the array.</p>		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

11	Global and dedicated Hot Spare	1. Offered Storage Array shall support Global hot Spare for offered Disk drives. 2. Atleast 1 hot spare shall be configured for every 30 drives.		
12	Logical Volume & Performance	1. Storage Subsystem shall support upto 512 Logical Units. 2. Offered Storage shall have inbuilt performance management software. Configuration Dashboard shall show overall IOPS and MB/sec performance.		
13	Load Balancing & Multi-path	Multi-path and load balancing software shall be provided, if OEM/vendor does not support MPIO functionality of Operating system.		
14	Form factor	2U 19" rack mountable		
15	Power	Dual redundant		
16	Certification	Environmental and Regulatory compliance certification/datasheet		
17	Cables and Connectors	All the required components including cables, connectors, Transceivers, Patch Cords etc. to be provided		
18	Warranty	Warranty includes 5-Year Onsite support with 24 x 7, 4 Hr Response		
19	Compatibility with computer server	Server and Storage shall be preferably of same Make with compatible interface		

**3. TECHNICAL BID FORMAT FOR 24 PORT NETWORK SWITCH (Qty- 2 Nos.)**

Make:		Model:		
b	Parameter	Requirement	Compliance (Y/N)	Remarks/ Deviation
1	I/O ports and slots	24 RJ-45 auto-negotiating 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T), 2 SFP+ fixed 1000/10000 ports, 2 RJ-45 1/10GBASE-T ports		
2	HA	Required		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

3	Additional ports and slots	1 RJ-45 console port to access limited CLI port		
4	Formfactor	1U Rack mountable with required accessories		
5	Memory and processor	Min 128 MB flash; Packet buffer size: 1.5 MB, 1 GB SDRAM		
6	Performance	100 Mb Latency : < 5 $\mu$ s		
		1000 Mb Latency : < 5 $\mu$ s		
		10 Gbps Latency : < 1.5 $\mu$ s		
		Throughput : up to 95.2 Mpps (64-byte packets)		
		Routing/Switching capacity : 128 Gbps		
		Routing table size : 32 entries (IPv4), 32 entries (IPv6)		
		MAC address table size : 16384 entries		
7	Reliability	MTBF (years) : Min 87.2		
8	Environment	Operating temperature : 32°F to 113°F (0°C to 45°C)		
		Operating relative humidity : 10% to 90%, noncondensing		
9	Safety/emission certifications	UL 60950; IEC 60950-1; EN 60950-1 FCC part 15 Class A; VCCI Class A		
10	Management	IMC - Intelligent Management Center; Limited command-line interface; Web browser; SNMP Manager; HTTPS; RMON1; FTP.		
11	Warranty	5 Years Onsite Warranty		
12	Cables and Connectors	All the components including cables, connectors, patch cord to be provided		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**4. TECHNICAL BID FORMAT FOR NEXT GENERATION FIREWALL  
(Qty- 01 No.)**

<b>Make:</b>		<b>Model:</b>		
<b>Sl. No.</b>	<b>Features/ Parameter</b>	<b>Requirement/Functionality</b>	<b>Compliance (Y/N)</b>	<b>Remarks/ Deviation</b>
1	Firewall Throughput	Min 750 Mbps		
2	IPS Throughput	Min 300 Mbps		
3	Threat Prevention	Min 235 Mbps		
4	Anti Virus Throughput	Min 235 Mbps		
5	Anti-malware	Min 200 Mbps		
6	Application Inspection	Min 375 Mbps		
7	TLS/SSL inspection and	Min 50 Mbps		
8	Full DPI / NGFW / UTM	Min 235 Mbps		
9	Concurrent	Min 100,000		
10	New Connections /	Min 5,000		
11	Site to Site IPsec VPN	10		
12	IPSec VPN clients	1		
13	SSL Inspection	60 Mbps		
14	Integrated Network	5x1GbE, 1 USB, 1 Console		
15	IPv6 Compatibility	Required full IPv6 Ready		
16	Single Sign-On (SSO)	500		
17	Management	CLI, SSH, Web UI, Capture Security Center, GMS, REST APIs		
18	<b>VPN</b>			
	Virtual Interfaces (VLANs)	Minimum 25 VLANS, 802.IQ Trunking		
	Access points	8		
	Encryption/authentication	DES, 3DES, AES (128, 192, 256-bit), MD5, SHA-1, Suite B Cryptography		
	Route-based VPN	RIP, OSPF, BGP		
	Certificate support	Verisign, Thawte, Cybertrust, RSA Keon, Entrust and Microsoft CA		
	VPN features	Dead Peer Detection, DHCP Over VPN, IPSec NAT Traversal, Redundant VPN Gateway, Route-		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

		based VPN		
	Global VPN client platforms supported	Windows 8.0 32/64-bit, Windows 8.1 32/64-bit, Windows 10		
19	<b>SECURITY SERVICES</b>			
	Deep Packet Inspection services	Gateway Anti-Virus, Anti-Spyware, Intrusion Prevention, DPI SSL		
	Content Filtering Service (CFS)	HTTP URL, HTTPS IP, keyword and content scanning, Comprehensive filtering based on file types such as ActiveX, Java, Cookies for privacy, allow/forbid lists		
		Support Comprehensive Anti-Spam Service, Application Visualization, Application Control, Capture Advanced Threat Protection		
20	<b>NETWORKING</b>			
	IP address assignment	Static, (DHCP, PPPoE, L2TP and PPTP client), Internal DHCP server, DHCP relay		
	NAT modes	1:1, 1:many, many:1, many:many, flexible NAT (overlapping IPs), PAT, transparent mode		
	Routing protocols	BGP, OSPF, RIPv1/v2, static routes, policy-based routing		
	QoS	Bandwidth priority, max bandwidth, guaranteed bandwidth, DSCP marking, 802.1e (WMM)		
	Authentication	LDAP (multiple domains), XAUTH/RADIUS, SSO, Novell, internal user database, Terminal Services, Citrix, Common Access Card (CAC)		
	Local user database	150		
	VoIP	Full H.323v1-5, SIP		
	Standards	TCP/IP, UDP, ICMP, HTTP, HTTPS, IPSec, ISAKMP/IKE, SNMP, DHCP,		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

		PPPoE, L2TP, PPTP, RADIUS, IEEE 802.3		
	Certifications	FIPS 140-2 (with Suite B) Level 2, UC APL, VPNC, IPv6 (Phase 2), ICSA Network Firewall, ICSA Anti-virus		
21	Input power	100 to 240 VAC, 50-60 Hz		
22	MTBF (in years)	Min 56		
23	Environment	Temp- 0°-40° C Humidity- 5-95% non-condensing		
24	Compliance Certificates	CB, CE, FCC Class B, IC, VCCI, MIC, RCM, UL, CCC		
25	Software	Firewall, IPS and management softwares must be of latest release version along with Sandboxing Solution, latest tested firmware and supplied with firewall device.		
26	General Specification:  Administration, Authentication & General Configuration	The proposed solution should have unrestricted user/node license.		
		The appliance based security platform should be capable of providing Firewall, IPS, Botnet Filtering, D-Dos Protection, Sandboxing Solution, URL Filtering, Application Control, Web Reputation and VPN (both IPsec and SSL) functionality in a single appliance from day one		
		The proposed solution should support administration via secured communication over HTTPS, SSH and from Console.		
		The proposed solution should support Route (Layer 3)/transparent mode (Layer 2).		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

		The proposed solution should send alert email to admin on change of gateway status.		
27	Firewall	The proposed solution should be standalone appliance with hardened OS.		
		The proposed solution should support stateful inspection with one-to-one & dynamic NAT, PAT, multi zone security architecture.		
		The proposed solution should have predefine application based on port/Signature & also support creation of custom application based on port/protocol number.		
		The proposed solution should support VLAN tagging support, Fully Qualified Domain Name (FQDN) based host and host group, Protocol independent multicast routing with IGMP snooping, Support for deployment of the UTM in a secure Layer 2 bridging mode, providing rich Layer 2-7 UTM security services for the protected network while remaining "invisible" to devices on each side of it.		
		The UTM/Firewall System shall comply with RFC 1918 with support for Static & Dynamic Network Address Translation and Port Address Translation.		
		The proposed solution must support IPv6		
		The Proposed solution must be SD WAN enable from day one		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

28	Anti Virus / Anti Malware Solution	The proposed solution should have an integrated Anti Virus solution, Should support 20000+ signature in the Gateway Antivirus (GAV)		
		Should have not have any limit of file size for AV Scanning		
		support scanning for SMTP, POP3, FTP over the HTTP		
		support blocking of dynamic/executable files based on file extension.		
		Virus gateway should provide real-time detection of viruses and malicious code at the gateway for SMTP, IMAP/ POP3, HTTP, HTTPS and FTP Internet traffic. IM protocols (MSN, Yahoo etc). The solution should detect and block viruses in HTTPS traffic.		
		The proposed solution should update the signature database at a frequency of less than one hour & it should also support manual update.		
		The proposed solution should support real mode or batch mode for HTTP virus scanning.		
		The proposed solution should provide historical reports based on username, IP address, Sender, Recipient & Virus Names.		
29	Cables and Connectors	All the components including cables, connectors, Transceivers, Patch Cords etc. to be provided		
30	Warranty	5 Years 24 x 7 Warranty with Subscription and Support		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**5. TECHNICAL BID FORMAT FOR 6 KVA UPS WITH BATTERY (Qty – 2 Nos.)**

<b>Make:</b>		<b>Model:</b>		
<b>Sl. No.</b>	<b>Features/Parameters</b>	<b>Requirement/Functionality</b>	<b>Compliance (Y/N)</b>	<b>Remarks/Deviation</b>
1	Capacity (in kVA / kW)	6 kVA/ 5.4 kW 1-Phase Input / 1-Phase Output. Required in Parallel mode i.e. 2X6kva		
2	Technology and Capability	a) True Online configuration with double conversion UPS		
		b) Microprocessor /DSP based control, using IGBT devices and high switching frequency PWM (>15kHz)		
		c) Active Power Factor Correction (APFC) in converter to improve Input Power Factor > 0.98		
		d) Possibility of enhancing UPS capacity / redundancy by operating UPS in 1+1 Parallel Redundant Configuration (PRS).		
		e) UPS should be designed at Rated output PF of 0.9		
3	Input facility - Phases / Wires	1-Phase / 2-Wire & Gnd (Phase & Neutral + Ground)		
4	Input Voltage Range	160 - 280V AC (On Full Load)		
5	Nominal Input Frequency	50 / 60 Hz (Auto selectable)		
6	Input Frequency Range	40 to 70 Hz		
7	Input Power Factor	> 0.98 on Full Load		
8	Input Current Harmonic Distortion (THDi)	< 5% on full resistive Load		
9	Generator Compatibility	Compatibility to genset supply required		
10	Input Protection (Thru In-built 1P MCB)	Should be provided at the input of the UPS suitable for the full rated capacity of the UPS		
11	Nominal Output voltage	220/ 230/ 240VAC (Selectable)		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

12	Output Voltage Regulation	±2%		
13	Nominal Output Frequency	50 / 60 Hz		
14	Output Frequency Regulation	+/- 0.05 Hz (Free Running / Self Clocked Mode)		
15	Output Wave Form	Pure sine wave		
16	Output Voltage Distortion (THDu)	<= 2% for Linear load		
17	Crest Factor	3 : 1 On Full Load (Minimum)		
18	Output Short circuit Protection	Electronic / Fused		
19	Transfer Time (Mode of operation)	Nil from Mains mode to Battery Mode Nil from Battery Mode to Mains mode		
20	Transfer Time (Inverter to Bypass / Bypass to Inverter)	< 2 ms (Synchronized Mode)		
21	Automatic & Bi-directional static by-pass (In-built)	Should be provided to take care of uninterrupted transfer of load from Inverter to bypass (under overload / fault conditions) & automatic retransfer from bypass to inverter (on removal of overload / fault conditions)		
22	Overall Efficiency (AC to AC) - Online (Double Conversion)	>= 94% (On Full R Load) & >= 98% in ECO mode		
23	Measurements (On LCD)	Input: Voltage / Frequency Output: Voltage / frequency Battery: Remaining time / Voltage Load: Percentage / kW		
24	Fault Indication (On LCD)	Charger Failure Battery Failed Battery Low Overload		
25	Indications (LED/LED)	AC indicator/Battery Mode of Operation / Bypass feeding the load / UPS Fault		
26	Audible Alarms	Battery Low beep / DC Fault beep/ UPS Overload beep/ o/p short ckt fault beep/ Shutdown beep		
27	Backup Required	60 Minutes on Full Load		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

28	Battery Bank Voltage	Vendor to include battery sizing calculations with tender		
29	Battery Bank VAh	(Battery Charger shall be min. 10% capacity of the Battery Ah being offered)		
30	Batteries Type	Sealed Maintenance free lead-acid batteries- Valve Regulated Lead Acid Battery (AGM -VRLA) 12V Cells		
31	Battery Makes	OEM Certified		
32	Number of Battery Banks	Maximum Two Banks in parallel		
33	Battery recharge time (After complete discharge) to 90% capacity	8-10 hours		
34	Serial Communication RS232 Port (Option of USB Port should be available)	RS232 Port should be provided as standard in the UPS. However there should be provision for USB port also in the UPS		
35	REPO(Remote Emergency Power OFF) / ROO(Remote ON - OFF) Port	Should be provided as standard in the UPS		
36	Interface to NMS (Network Management System)	SNMP Card for connecting the UPS to LAN thru Ethernet port & monitoring thru NMS should be available		
37	Cold Start	UPS should start up On AC Supply (Mains) without DC Supply (Batteries) On DC Supply (Batteries) without AC Supply (Mains)		
38	Automatic Restart	UPS should start up automatically on mains resumption after battery low shutdown		
39	Operating Temperature	0 to 40 deg C		
40	Storage Temperature	-15 to 50 deg C		
41	Operating Humidity	0% ~ 95%RH (No Condensing)		
42	Type of Cooling	Natural Convection Cooling through air vents		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport**

43	Noise Level	< 58 dbA at 1 meter distance		
44	Form Factor	Rack & Tower mountable		
45	Air Filters (mandatory)	UPS should have internal anticorrosion air filters for dust filtration		
46	Standards	Compliance to EN/EC 62040-1/2/3/4		
47	Warranty	5 Years Comprehensive OEM Warranty on UPS and 2 years on Batteries, Parallel Kit		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**6. TECHNICAL BID FORMAT FOR 8-PORT KVM SWITCH, 17" LCD MONITOR AND 42 RACK**

**a. 8-port KVM Switch (Qty - 1 No.)**

<b>Make:</b>		<b>Model:</b>		
<b>Sl. NO.</b>	<b>Feature/Parameter</b>	<b>Requirement/Functionality</b>	<b>Compliance (Y/N)</b>	<b>Remarks/ Deviation</b>
1	Computer Connections	Direct – 8 Max- 64 (via cascade)		
2	Port Selection	Hotkeys, Pushbuttons		
3	Connections	Support PS/2 and USB for Console and Computer		
4	Multiplatform Support	Windows, Linux, Mac		
5	Resolution Support	1920x1080 or better		
6	Housing, mounting	Metal, Rack mount		
7	Scan Interval	1–255 Seconds		
8	Operating Temp	0–50°C		
9	Environment	Storage Temp. -20–60°C Humidity : 0–80% RH, Non-condensing		
10	Certification	BIS, UL		
11	Cables and Connectors	Min 1.5 m length cable with all cables/connectors for connecting VDU/KBD/Mouse		
12	Warranty	5 years		

**b. LCD Monitor 17" (Qty - 1 No.)**

<b>Make:</b>		<b>Model:</b>		
<b>Sl. No.</b>	<b>Parameters/Features</b>	<b>Requirement</b>	<b>Compliance (Y/N)</b>	<b>Remarks/ Deviation</b>
1	LCD Control	4 x Pushbutton		
2	Connectors	Compatible with KVM Switch		
3	LCD Module	17" TFT-LCD or Higher		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

4	Resolution	1280x1024 or better		
5	Response Time	5 ms		
6	Contrast Ratio	1000:1		
7	Luminance	250 cd/m <sup>2</sup>		
8	Input Video Resolution	1920x1200@60Hz; 1280x1024@75Hz, DDC2B		
9	Input power	100-240 VAC; 50-60 Hz		
10	Operating Temp	0-50° C		
11	Housing	Metal+Plastic, Single Rail		
12	Warranty	5 years		
13	Compatibility	KVM Switch and Monitor shall have compatible interface and preferably of same Make		

**c. 42U Rack (Qty - 1 No.)**

<b>Make:</b>		<b>Model:</b>		
Sl. No	Parameter	Requirement	Compliance (Y/N)	Remarks/ Deviation
1	Size	Height 42U usable Width 600 mm Depth overall: 1000mm & Depth Usable: 920mm		
2	Standards	DIN 41494 or EIA 310D		
3	Frame Construction	Ten folds vertical profiles + CRCA Steel End Frames (Welded picture frame to provide stability.)		
4	Load Carrying Capacity	700 Kgs		
5	Powder coating requirements	Nano ceramic pre-treatment process using a zirconium coat (Thickness 70 to 80 Microns)		
6	Material	CRCA Steel IS 513 GrD or better		
7	Doors & Side panel	Front & Rear perforated door with hexagonal perforation with minimum 70% opening for better air movement across the Rack. Side panels should have slam latches & indents for improved strengths & aesthetics		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

8	Environment Friendly	ROHS Compliant		
9	ISO Certification	ISO 9001-2000, ISO 14001 -2004		
10	19" Angles in the Rack	Fully reachable 19" mounting angles at front and rear The 19" angles should have "U" marking for easy location of equipment in the designated slots.		
11	Power Management	2 nos. PDU SOCKET 10 X 5/15 AMP WITH 32 AMP MCB AND INDICATOR WITH 3MTR CABLE AND 3 pin plug i.e. It should have individual power-on switch for mounting 2 nos. servers,1 storage, 2 Ethernet switches, NG Firewall, KVM monitor etc. in rack		
12	Equipment Tray	2 no. EQUIPMENT SHELF		
13	Floor Placement	Castors - 2nos. with foot brakes and 2nos without brake and Levelling legs		
14	Thermal Management	4 Nos Fan 90 CFM 230V		
15	Equipment Mounting Hardware	Min 5 nos Hardware Pkt of 20		
16	Earthing Provision	Earth Continuity kit		
17	Warranty	5 years		

**7. TECHNICAL BID FORMAT FOR MS OFFICE PROFESSIONAL 2019 (QTY - 8 NOS.)**

Make:		Model:		
Sl. NO.	Parameter	Requirement	Compliance (Y/N)	Remarks/ Deviation
1	MS office Professional Plus 2019	Includes Access, Excel, Outlook, PowerPoint, Publisher, Word, and Skype for Business		
2	License type	Perpetual		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**8. TECHNICAL BID FORMAT FOR VM-WARE (QTY - 1 NO.)**

Make:		Model:		
Sl. No.	Parameter	Description	Compliance (Y/N)	Remarks/ Deviation
1	VMware vSphere Essentials Plus Kit for 3 hosts (Max 2 processors per host)	VMware vSphere Essentials Plus includes vCenter Server Essentials and ESXi for 3 hosts, plus the following features: vCenter agents, Update Manager, High Availability. vSphere Essentials Plus is limited for use on up to 3 hosts and on servers with up to two processors only. The server hosts must be managed by the vCenter Server Essentials edition that is provided with this bundle. It shall be of latest version.		
2	Production Support/Subscription	5 years Technical Support, 24 Hour Severity 1 Support -- 7 days a week.		
3	License Type	Perpetual		

-----

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**9. TECHNICAL BID FORMAT FOR WORKSTATION WITH WINDOWS OS  
(QTY - 1 NO.)**

<b>Make:</b>		<b>Model:</b>		
<b>Sl. NO.</b>	<b>Parameter/Features</b>	<b>Requirement/Functionality</b>	<b>Compliance (Y/N)</b>	<b>Remarks/Deviation</b>
1	Processor	Intel Xeon E3,4 core, 3.5 GHz or above, 8 MB Cache or higher		
2	Chipset	Intel® C246 chipset		
3	Memory	ECC Memory 32 GB or more expandable up to 128 GB, DDR4 2666 MHz or more		
4	Hard Disk Drive	1 TB 7200/10000 RPM SATA or higher capacity, Min 2 internal SATA/SDD bays for expansion		
5	RAID Controller ports	Minimum 4 ports of 6Gbps and should support RAID 0,1.		
6	Expansion Slots	PCIe X 1 slot – 1 no. free slots PCIe X 4 slot – 1 no. free slots PCIe X 16 slot- 1 no. free slots		
7	Optical Drive	Slim DVD+/-RW Double Layer Super Multi (SATA) drive.		
8	Graphics	Dedicated/Discrete, 4GB nVIDIA Quadro graphics card		
9	Networking	Integrated Gigabit (10/100/1000), Dual Gigabit NIC (Optional), Wifi 802.11ac, Bluetooth		
10	Audio	High Definition Integrated Audio with Internal speaker.		
11	Form factor	Tower/ Mini tower/Rack		
12	IO Ports	Six or more USB Ports (Minimum two no's 3.0/3.1 USB port) Min One USB Type C port One RJ-45 port One serial port (Either inbuilt or separate card to be provided) One HDMI/DVI/DVI-D/VGA port Headphone/Microphone-1		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

		MicroSD slot-1 1 x Audio Line-in, and 1 Audio Line-out		
13	Power Supply	230 V ± 10 %, 50 Hz		
14	Monitor	Anti-glare LED backlit, IPS Display, Min 24" inch, Full HD, Resolution 1920 X 1080 or better		
15	Keyboard	Standard keyboard of same make as that of workstation		
16	Mouse	Optical Scroll Mouse (same make as that of workstation) with mouse pad		
17	Operating System	<b>Genuine Win 10 Pro 64 WKST.</b> System should support for Red Hat® Enterprise Linux Desktop 7.5		
18	Recovery/Resource CDs	Restore / Recovery CD must contain software for restoring OS & drivers/data.		
19	Additional Software	Automatic system performance tuning and monitoring software on Windows. The tuning software should have modules for resource monitoring over a long period of time, and should be capable of showing GPU utilisation (GPU, Graphics memory and Codec activity) for both Graphics and GPU Compute cards. A complete Offline Diagnostics and Asset Discovery software suite should be supplied along with the system.		
20	Security, Compliance and certification	TPM, BIS Registration, RoHS Compliance, TCO-07 (for monitor) Windows OS and Linux Certification		
21	Warranty	Minimum Five year on-site warranty		

-----

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**10. TECHNICAL BID FORMAT FOR WORKSTATION WITH LINUX (QTY – 1 NO.)**

<b>Make:</b>		<b>Model:</b>		
Sl. No.	Parameter/ Features	Requirement/Functionality	Compliance (Y/N)	Remarks/ Deviation
1	Processor	Intel Xeon E3, Min 4 core, 3.5 GHz or above, 8 MB Cache or higher		
2	Chipset	Intel® C246 chipset		
3	Memory	ECC Memory 32 GB or more expandable up to 128 GB, DDR4 2666 MHz or more		
4	Hard Disk Drive	1 TB 7200/10000 RPM SATA or higher capacity, Min 2 internal SATA/SDD bays for expansion		
5	RAID Controller ports	Minimum 4 ports of 6Gbps and should support RAID 0,1.		
6	Expansion Slots	PCIe X 1 slot – 1 no. free slots PCIe X 4 slot – 1 no. free slots PCIe X 16 slot- 1 no. free slots		
7	Optical Drive	Slim DVD+/-RW Double Layer Super Multi (SATA) drive.		
8	Graphics	Dedicated/Discrete, 4GB nVIDIA Quadro graphics card		
9	Networking	Integrated Gigabit (10/100/1000), Dual Gigabit NIC (Optional), Wi-Fi 802.11ac, Bluetooth		
10	Audio	High Definition Integrated Audio with Internal speaker.		
11	Form factor	Tower/ Mini tower		
12	IO Ports	Six or more USB Ports (Minimum two no's 3.0/3.1 USB port) Min One USB Type C port One RJ-45 port One serial port (Either inbuilt or separate card to be provided ) One HDMI/DVI/DVI-D/VGA port Headphone/Microphone-1 MicroSD slot-1		

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

		1 x Audio Line-in, and 1 Audio Line-out		
13	Power Supply	230 V ± 10 %, 50 Hz		
14	Monitor	Anti-glare LED backlit, IPS Display, Min 24" inch, Full HD, Resolution 1920 X 1080 or better		
15	Keyboard	Standard keyboard of same make as that of workstation		
16	Mouse	Optical Scroll Mouse (same make as that of workstation) with mouse pad		
17	Operating System	<b>Ubuntu / RHEL</b> including All drivers required for proper integration of components. System should support for Red Hat® Enterprise Linux Desktop 7.5		
18	Recovery/Resource CDs	Restore / Recovery CD must contain software for restoring OS & drivers/data.		
19	Additional Software	Automatic system performance tuning and monitoring software on Windows. The tuning software should have modules for resource monitoring over a long period of time, and should be capable of showing GPU utilisation (GPU, Graphics memory and Codec activity) for both Graphics and GPU Compute cards. A complete Offline Diagnostics and Asset Discovery software suite should be supplied along with the system.		
20	Security, Compliance and certification	TPM, BIS Registration, RoHS Compliance, TCO-07 (for monitor) Windows OS and Linux Certification		
21	Warranty	Minimum Five year on-site warranty		

-----

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**11. TECHNICAL BID FORMAT FOR PASSIVE NETWORKING COMPONENTS**

Sl.No.	Item	Description	Qty	Make/Model	Compliance (Y/N)
1	UTP Cat6 cable 305 mtr	Cat6, PowerCatPlus, 4 pair, 23 AWG, Blue, Reel in box pack of Molex/D-Link Make	2		
2	24-port jack panel	Unloaded jack panel Cat6 of Molex/D-Link Make	1		
3	Cat6 patch cord 2 mtr	Standard item of Molex/D-Link Make	16		
4	Cat6 Datagate shutter jack	Powercat6, shuttered white of Molex/D-Link Make	16		

-----

**Note:**

1. It may be noted that the specifications given above are the minimum specification. Items with higher / better specifications shall be technically acceptable; however, no cost benefit shall be given to such tenders on this account. Higher version/model may also be quoted in case of non-availability or end-of-life of proposed model/version with recommendation/certification letter from OEM. Tenderer should offer only one make for all types of items and only one model for each item. Multiple offers by the bidder will be rejected and tender will not be considered for evaluation.
2. No product shall be offered for which OEM has announced end-of-life.
3. Product shall not be in refurbished mode in any form.
4. Guarantee/Warrantee for minimum Five years or Warranty period provided by OEM (Whichever is higher) for Servers/Storage/Network switch/ Firewall/ Workstation/ KVM Monitors, UPS etc.
5. Both servers will have Windows server Standard 2019 SNGL OLP as the main operating system with required number of core license and 10 Client Access Licenses.

-----

अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport

Annexure-III

**ACCEPTANCE LETTER**

(TO BE SUBMITTED IN Envelope II (PQQ/Technical Bid))

To

Jt.GM (ATSEP-GAGAN)  
Airports Authority of India  
SVP International Airport  
Ahmedabad Gujarat 380003

**Sub: Un-conditional Acceptance letter**

**Name of Work: -“Supply, Installation, Testing & Commissioning of Computer server and storage solution for GNSS R & D center at SVPI Airport, Ahmedabad.”**

Dear Sir,

1. The tender document for the works mentioned above have been issued to us by Airports Authority of India and I/we hereby certify that I/we have read the entire terms and conditions of the tender document made available to me / us in the office of the Jt.GM (ATSEP -GAGAN), AAI, which shall form part of the contract agreement and I/we shall abide by the conditions / clauses contained therein.
2. I / We hereby unconditionally accept the tender conditions of AAI's tender document in its entirety for the above works.
3. It is clarified that after unconditionally accepting the quotation conditions in its entirety, it is not permissible to put any remarks / conditions (except unconditional rebates on quoted rates if any) in the quotation enclosed in envelope “A” & “B” and the same has been followed in the present case. In case any provisions of this quotation are found violated after opening envelope “A” & “B”. I / we agree that the quotation shall be rejected and AAI shall without prejudice to any other right or remedy be at liberty to forfeit the full said earnest money absolutely.
4. That, I /We declare that I/we have not paid and will not pay any bribe to any officer of AAI for awarding this contract at any stage during its execution or at the time of payment of bills, and further if any officer of AAI asks for bribe /gratification, I will immediately report it to the appropriate authority of AAI.

**Yours faithfully**

**(Date with rubber Stamp)**

**(Signature of the Bidder with Rubber Stamp)**

अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport

Annexure - IV

**PROFORMA BANK GUARANTEE FOR CONTRACT PERFORMANCE**

(To be stamped in accordance with Stamp act)

(The non-judicial stamp paper should be in the name of issuing Bank)

Ref:

Bank Guarantee:

Date:

To,

Jt.GM (ATSEP -GAGAN)  
Airports Authority of India  
SVP International Airport  
Ahmedabad Gujarat 380003

**Name of Work: - "Supply, Installation, Testing & Commissioning of Computer server and storage solution for GNSS R & D center at SVPI Airport, Ahmedabad, "**

Dear Sirs,

1. In consideration of the Chairman, Airports Authority of India [hereinafter called "AAI"] having offered to accept the terms and conditions of the proposed agreement between ..... and..... [here-in-after called "the said Contractor(s)"] for the works..... [here-in-after called "the said agreement"] vide Order no. .... Dated ....., having agreed to production of irrevocable Bank Guarantee for Rs..... (Rupees ..... only) as a security / guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.
2. We..... (indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this Guarantee without any demure, merely on a demand from AAI stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees .....only).
3. We, the said bank further undertake to pay to the Chairman, AAI any money so demanded notwithstanding any dispute or disputes raised by the contractor (s) i n any suit or proceeding pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal.
4. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment. We..... (indicate the name of the bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of AAI under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Projection- charge on behalf of AAI certified that the terms and conditions of the said agreement have been fully

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport**

and properly carried out by the said contractor(s) and accordingly discharges this guarantee.

5. We..... (indicate the name of the bank) further agree with AAI that AAI shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by AAI against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act or omission on the part of AAI or any indulgence by the AAI to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect so relieving us. This guarantee shall not be discharged due to the change in the constitution of the Bank or the contractor(s).
6. We..... (Indicate the name of the bank) lastly undertake not to revoke this guarantee except with the previous consent of AAI in writing.
7. This guarantee shall be valid upto ..... unless extended on demand by AAI. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs..... (Rupees ..... only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharge

WITNESS

Dated this ----- day of ----- 2020 at -----

Signature -----Signature -----

Name ----- (Bank's Rubber

Stamp) Official address ----- Name -----

Designation with Bank

Stamp

Attorney as per

Power of Attorney No. \_\_\_\_\_

Date. \_\_\_\_\_

\*\*\*\*\*

अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport

Annexure -V

**Format for Intimation of Force Majeure Occurrence**

To

Jt. GM (CNS-GAGAN)  
Airports Authority of India  
SVP International Airport  
Ahmedabad Gujarat 380003

**Name of Work: -“Supply, Installation, Testing & Commissioning of Computer server  
and storage solution for GNSS R & D center at SVPI Airport,  
Ahmedabad,”**

Sir,

Pursuant to ClauseNo.12-FORCEMAJEURE, it is for your kind information that a case of  
force majeure has since occurred. Details are given below:

Date of occurrence	Detail of Incident	Activity affected	Likely Delay	Requested Extension

We are entitled to an extension in the date of completion as requested above. Bar  
Chart with revised schedule of activities is attached. Please approve the extension in  
the time. Evidence of the date of occurrence is also enclosed.

It is certified that performance of the Contract has been interfered with. It is also  
certified that the incident has not occurred due to our own action and that there has  
not been any lack of action by us in preventing the occurrence.

We are only claiming the extension in the date of completion of the activity (ies) and  
not claiming the loss incurred in the course of the incident.

Yours truly,

(Project Leader)

Enclosures:

1. Revised Bar Chart.
2. Evidence of the occurrence of the Force Majeure case (..... sheets)

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**Annexure-VI**

**APPLICATION FOR EXTENSION OF TIME**

**Part-I**

1. Name of the Contractor
2. Name of the work as given in the agreement
3. Agreement No.
4. Contract Amount
5. Date of Commencement of work as per agreement
6. Period allowed for completion of work as per agreement
7. Date of completion stipulated in agreement
8. Date of actual completion of work
9. Period for which extension is applied for.
10. Hindrances on account of which extension is applied for with dates on which hindrances occurred and the period for which these are likely to last.

S. No.	Name of Hindrance	Date of Occurrence of hindrance	Date of over of hindrance	Period of hindrance	Overlapping Period	Net extension applied for	Remarks if any

Total period for which extension is now applied for on account of hindrances mentioned above.

Month Days

11. Extension of time required for extra work.
12. Details of extra work and the amount involved:-

Total value of extra work	Proportionate period of extension of time based on estimated amount put to tender on account of extra work.
(a)	(b)

13. Total extension of time required for 10 & 11.

Submitted to the Project Leader

Signature of Contractor

Dated

अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport

Part II  
(For Official Use)

1. Date \_\_\_\_\_ of \_\_\_\_\_ receipt \_\_\_\_\_ of \_\_\_\_\_ application  
from \_\_\_\_\_  
Contractor for the work of \_\_\_\_\_ in the office of the  
Assistant General Manager (CNS-GAGAN)
2. Recommendations of the project Leader as to whether the reasons given by the  
contractor are correct and what extension, if any, is recommended by him. If he  
does not recommend the extension, reasons for rejection should be given

Dated:  
Installation In-charge

Signature of the

**(To be filled in by the Project Leader)**

1. Date of receipt in the Office:-
2. Project Leader's remarks regarding hindrances mentioned by the contractor.
  - i) Serial No
  - ii) Nature of hindrance
  - iii) Date of occurrence of hindrance
  - iv) Period for which hindrance is likely to last
  - v) Extension of time applied for by the contractor
  - vi) Overlapping period, if any, giving reference to items which overlap
  - vii) Net period for which extension is recommended
  - viii) Remarks as to why the hindrance occurred and justification for extension recommended.
3. Project Leader's Recommendations. The present progress of the work should be stated and whether the work is likely to be completed by the date upto which extension has been applied for. If extension of time is not recommended, what compensation is proposed to be levied under Clause 32 of the agreement.

Signature of Project Leader

Signature of Accepting Authority

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport**

**Annexure-VII**

**Details of the Vendor Firm/Company**

1	Name of the Bidder/Contractor	
2	Name of the bank	
3	Name of the branch	
4	Complete address of bank	
5	Account of beneficiary	
6	Type of account	
7	Core Banking Account No in full	
8	IFSC code of the bank	

अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport

Annexure-VIII

**Declaration-1**

**By The Contractor/Tenderer:-**

I / we, the undersigned do hereby declare that, I / we have never ever been blacklisted and / or there were no debarring actions against us for any default services rendered to Airports Authority of India.

In the event of any such information pertaining to the aforesaid matter found at any given point of time either during the course of the contract or at the bidding stage, my bid/contract shall be liable for truncation / cancellation / termination without any notice at the sole discretion of the purchaser.

Signature of Tenderer : \_\_\_\_\_  
Name : \_\_\_\_\_  
Date : \_\_\_\_\_  
Seal :\_  
E-mail address :\_

अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport

Annexure-IX

**Declaration-2**

**By The Contractor/Tenderer:-**

I/We hereby declare that none of the members or my/our relatives is relative of any employee of AAI and I/We also further declare that no Director/Employee of Airports Authority of India is/are a Director/Partner of my/Our firm/Company/ Partnership) Proprietor.

Signature of Tenderer: \_\_\_\_\_  
Name : \_\_\_\_\_  
Date : \_\_\_\_\_  
Seal :\_  
E-mail address :\_

अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport

Annexure-X

**Declaration-3**

**By The Contractor/Tenderer:-**

I / we, the undersigned do hereby declare that, I / we have

Original equipment manufacturer (OEM)

Or

Authorized Dealer / Distributor / Channel partner / Business partner / Service partner

***(PLEASE TICK ANY OF ABOVE IN BOLD LETTERS)***

For supply of material / equipment to the Airports Authority of India as mention in tender. In the event of any such information pertaining to the aforesaid matter found at any given point of time either during the course of the contract or at the bidding stage, my bid/contract shall be liable for truncation / cancellation / termination without any notice at the sole discretion of the purchaser.

(Signature of Tenderer with Stamp)

Name: Date : Seal :\_ E-mail address: \_\_\_\_\_

अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport

Annexure-XI

**Declaration-4**

**By The Contractor/Tenderer:-**

I/We hereby declare that no part of the scope of work mentioned  
in tender shall be sublet or outsourced to any third party.

Signature of Tenderer: \_\_\_\_\_

Name : \_\_\_\_\_

Date : \_\_\_\_\_

Seal :\_

E-mail address :\_

अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer  
Server and Storage Solution at Ahmedabad Airport

Annexure-XII

**AGREEMENT (On INR 100/- Non Judicial Stamp Paper)**

**For Supply, Installation, Testing & Commissioning of Computer server and storage  
solution for GNSS R & D center at SVPI Airport, Ahmedabad,**

**Between**

**Jt.GM (ATSEP -GAGAN), Airports Authority of India, SVPI Airport, Ahmedabad  
380003**

**And**

**(Name of the Contractor along with address)**

**THIS AGREEMENT**, entered into this (Date) day of (Month & Year) by and between (Name of Contractor), having its office at (Contractor's Office Address) (hereinafter called the "Contractor") and the Jt.GM(ATSEP-GAGAN), Authority of India having its office at SVPI Airport, Ahmedabad 380003 (hereinafter called the "AAI"), the expressions "Contractor" and "AAI" shall mean their successors, legal representatives or assigns, for the " Supply, Installation, Testing & Commissioning of Computer server and storage solution for GNSS R & D center at SVPI Airport, Ahmedabad" .

**WITNESSETH,**

**WHEREAS**, AAI invited offers for the "Supply, Installation, Testing & Commissioning of Computer server and storage solution for GNSS R & D center at SVPI Airport, Ahmedabad".

**WHEREAS**, the Contractor has offered Supply, Installation, Testing & Commissioning of Computer server and storage solution for GNSS R & D center at SVPI Airport, Ahmedabad in accordance with their Price Bid dated (Date) and AAI has accepted its offer.

**NOW**, therefore, in consideration and mutual covenants contained herein, the Contractor and The AAI (hereinafter referred to as the "parties") agree that the following document shall be part of this agreement:-

- 9.1.A.I. AAI Tender Documents for the (Supply, Installation, Testing & Commissioning of Computer server and storage solution for GNSS R & D center at SVPI Airport, Ahmedabad) comprised in Volumes- (Numbers), including Drawings and Maps supplied by AAI.
- 9.1.A.II. Tender corrigendum no. 1, 2 ....
- 9.1.A.III. Tender clarifications offered by AAI subsequent to the Bidders queries by AAI (Date).

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

- 9.1.A.IV. Bid Documents submitted by the Contractor dated (Date) in fulfilling the contract requirements that includes the signed compliance.
- 9.1.A.V. Unconditional acceptance of AAI Tender conditions as given by the Contractor.
- 9.1.A.VI. Queries raised by AAI during technical evaluation and technical clarifications submitted by the contractor in response thereof.
- 9.1.A.VII. The price bid of the Contractor which was opened on (Date) and accepted by AAI.
- 9.1.A.VIII. Detailed itemized cost of the spares list, training program, syllabi for (Name of Equipment), clarification on data sharing between AAI, SVPI Airport, Ahmedabad 380003 and offered by the Contractor vide his letter dated (Date).
- 9.1.A.IX. Reference of LOI/Purchase order issued/acceptance of bidder for and on behalf of Contractor for and on behalf of Chairman, AAI.

For and on behalf of Contractor  
AAI

For and on behalf of Chairman,

Signature  
Name of the Executive  
Designation

Signature  
Name of the Executive  
Designation

1. Witness: (Signature, Date, Name, Designation on behalf of AAI)

2. Witness: (Signature, Date, Name, Designation on behalf of Contractor)

**अहमदाबाद एयरपोर्ट मे कम्प्युटर सर्वर और स्टोरेज समाधान हेतु एसआईटीसी/ SITC of Computer Server and Storage Solution at Ahmedabad Airport**

**Schedule: A**

**Sample Price Bid  
("Financial Bid")**

Validate Print Help

**Item Rate BoQ**

Tender Inviting Authority: भारतीय विमानपत्तन प्राधिकरण / AIRPORTS AUTHORITY OF INDIA

Name of Work: Supply, Installation, Testing & Commissioning of Computer server and storage solution for GNSS R & D center at SVPI Airport, Ahmedabad, Gujarat

Contract No: निविदा सं.(संचार) / Tender No: AAI/AHM/CNS/GAGAN/04

PRICE SCHEDULE						
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)						
NUMBE	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description- As per NIT-Annex-II	Quantity	Units	BASIC RATE In INR Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT with all Taxes and Charges. (Inclusive of GST)	TOTAL AMOUNT In Words
1	2	4	5	13	54	55
1	Computer Server (Hardware)	2.000	Nos		0.00	INR Zero Only
2	Windows Server Standard 2019 License 16 core SINGL OLP-Software	2.000	Nos		0.00	INR Zero Only
3	Windows Server Standard 2019 License 02 core SINGL OLP-Software	2.000	Nos		0.00	INR Zero Only
4	Windows Server 2019 Client Access License (CAL) SINGL OLP -Software	10.000	Nos		0.00	INR Zero Only
5	Storage System-SAN	1.000	Nos		0.00	INR Zero Only
6	Network Switch – 24 port	2.000	Nos		0.00	INR Zero Only
7	Next Generation Firewall- Hardware	1.000	Nos		0.00	INR Zero Only
8	6-KVA UPS with battery and Racks	2.000	Nos		0.00	INR Zero Only
9	8-port KVM Switch with cables	1.000	Nos		0.00	INR Zero Only
10	17" rack mount KVM LCD monitor	1.000	Nos		0.00	INR Zero Only
11	Rack 42U	1.000	Nos		0.00	INR Zero Only
12	MS Office 2019 professional	8.000	Nos		0.00	INR Zero Only
13	VMware vSphere Essential Plus kit licence for 3 Host	1.000	Nos		0.00	INR Zero Only
14	Workstation with Windows OS	1.000	Nos		0.00	INR Zero Only
15	Workstation with Linux	1.000	Nos		0.00	INR Zero Only
16	UTP Cat6 cable 305 mtr-Box	2.000	Nos		0.00	INR Zero Only
17	24-port jack panel	1.000	Nos		0.00	INR Zero Only
18	Cat6 patch cord 2 mtr	16.000	Nos		0.00	INR Zero Only
19	Cat6 Datagate shutter jack	16.000	Nos		0.00	INR Zero Only
20	Installation and Configuration	1.000	Nos		0.00	INR Zero Only
21	Header Discount (If Any)	1.000	Nos		0.00	INR Zero Only
Total in Figures					0.00	INR Zero Only
Quoted Rate in Words					INR Zero Only	

- Note:** 1. Bidders shall quote prices **Inclusive of GST** and inclusive of all other cost such as transportation, freight, Insurance, delivery or any other items required for SITC etc.
2. Warranty period will start from the Date of Acceptance report of all system.

**Signature of Contractor with Stamp**