



टाटा मूलभूत अनुसंधान संस्थान हैदराबाद /
TATA INSTITUTE OF FUNDAMENTAL RESEARCH HYDERABAD

परमाणु ऊर्जा विभाग की स्वायत्त संस्था, भारत सरकार
Autonomous Institution of the Department of Atomic Energy, Government of India

सर्वेक्षण सं. 36/पी, गोपानपल्ली गांव, सेरिलिंगमपल्ली मंडल, रंगारेड्डी जिला, हैदराबाद - ५०० ०४६, तेलंगाना।
Survey No.36/P, Gopanpally village, Serilingampally Mdl., Rangareddy Dist., Hyderabad - 500 046, Telangana.

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वेबसाइट / Website : www.tifrh.res.in

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तिथि / Date: 22.12.2025

NOTICE INVITING TENDER

निम्नलिखित कार्यों के लिए निविदा सह निविदा दस्तावेज (दो भाग सार्वजनिक निविदा) आमंत्रित करने की सूचना /
Notice Inviting Tender cum Tender Document (Two Part Public Tender) for the following works

Supply, Installation, Testing and Commissioning of Chilled Water Units and its related works at TIFR, Hyderabad.

निविदा सं. / Tender No.	TIFR/PD/CA25-168/ 251565
प्रकाशन की तिथि / Date of Publishing	22.12.2025
निविदा का प्रकार / Type of Tender	Two Bid System (Part-I: Technical cum eligibility Bid and Part-II: Financial Bid)
अनुमानित लागत / Estimated Cost	Rs.14,38,355/- (Inclusive of GST)
Location	Tata Institute of Fundamental Research 36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District, Hyderabad 500046
ईएमडी की लागत / Cost of EMD	<p>Rs.28,767/- (डिमांड ड्राफ्ट "टीआईएफआर सेंटर फॉर इंटरडिसिप्लिनरी साइंसेस" के पक्ष में तैयार किया जाना है, जो हैदराबाद में देय है (तकनीकी बोली भाग - I के साथ संलग्न किया जाना है)।</p> <p>Rs.28,767/- (Demand Draft to be drawn in favor of "TIFR Center for Interdisciplinary Sciences", Payable at Hyderabad.</p> <p>(To be enclosed with the Technical Bid Part – I).</p>

बोली-पूर्व बैठक की तिथि और समय / Pre-Bid Conference: (a) Date & Time:	26.12.2025 at 11:00 Hrs. For Pre-bid conference Zoom link, check TIFRH webpage-Tenders-TIFR/PD/CA25-168/251565
(b) Zoom Link	TIFR, Survey No. 36/P, Gopanpally (Village), Serilingampally (Mandal), Ranga Reddy Dist., Hyderabad-500046. Phone: 040-2020-3001
(c) Venue:	

टिप्पणी / NOTE:

- प्रतिष्ठित अनुसंधान संस्थानों, विश्वविद्यालयों, केंद्र सरकार / सार्वजनिक क्षेत्र के उपक्रम, निजी प्रयोगशालाओं, बहुराष्ट्रीय कंपनियों आदि में समान कार्य अनभव रखने वाले ठेकेदारों से उपर्युक्त कार्यों के लिए सीलबंद आईटम दर निविदाएं आमंत्रित की जाती हैं। इच्छुक ठेकेदार जो टीआईएफआर, हैदराबाद द्वारा निर्धारित पात्रता मानदंडों को पूरा करते हैं, केवल अपनी बोलियां प्रस्तुत करेंगे। / Sealed Item Rate Tenders are invited for the aforementioned works from contractors having similar work experience in reputed Research Institutions, Universities, Central Government/Public Sector Undertaking, Private Laboratories, Multinational Companies, etc. Interested contractors who are satisfying eligibility criteria stipulated by TIFR, Hyderabad shall only submit their bids.
- तकनीकी सह पात्रता बोली (भाग-I) और वित्तीय बोली (भाग-II) दोनों को बोलीदाता द्वारा अलग-अलग लिफाफों में विधिवत रूप से लिखा हुआ सीलबंद किया जाना चाहिए और इन दोनों सीलबंद लिफाफों को एक बड़े लिफाफे में रखा जाना चाहिए, जिसे भी सीलबंद किया जाना चाहिए और उस पर निविदा संख्या, विवरण और नियत तारीख लिखी होनी चाहिए। / Both Technical cum eligibility Bid (Part-I) and Financial Bid (Part-II) should be sealed by the bidder in separate envelopes duly super-scribed and both these sealed covers are to be put in a bigger envelope which should also be sealed and duly super-scribed with the Tender No., Description and Due Date.
- यदि “भाग-I” और “भाग-II” बोलियां अलग-अलग लिफाफों में सीलबंद नहीं की जाती हैं तो निविदा अस्वीकार कर दी जाएगी। / In case, the “Part-I” and “Part-II” bids are not sealed in separate envelopes, the tender shall be rejected.
- तकनीकी बोली में मूल्य का कोई संकेत नहीं होना चाहिए। / Technical bid should not contain any indication of the price.

- बिना ईएमडी/अपर्याप्त ईएमडी के साथ प्राप्त तकनीकी बोली को सरसरी तौर पर अस्वीकार कर दिया जाएगा। / The Technical Bid received without EMD/with Insufficient EMD shall be summarily rejected.
- हाथ से डिलीवरी/कूरियर द्वारा भेजी गई बोलियां, टीआईएफआर, हैदराबाद सुरक्षा कार्यालय के सुरक्षा कर्मचारियों से मुहर, तारीख और हस्ताक्षर प्राप्त करने के बाद उन्हें सौंप दी जानी चाहिए। / Bids sent by hand delivery/courier are to be handed over to the security staff at TIFR, Hyderabad security office after obtaining stamp, date and signature from them.
- निविदा में उल्लिखित किसी भी तकनीकी या वाणिज्यिक शर्तों के स्पष्टीकरण के लिए श्री कृष्णा ए ई, टेलीफोन: **040-2020-3009**, ई-मेल: krishnaae@tifrh.res.in से संपर्क करें। / Contact Mr. Krishna A. E., Tel: **040-2020-3009**, Email Id: krishnaae@tifrh.res.in for any technical or commercial terms clarifications mentioned in the tender.
- बोलियाँ प्रमुख, तकनीकी सेवाएँ, प्लॉट संख्या 36/पी, गोपनपल्ली गाँव, सेरिलिंगमपल्ली मंडल, रंगा रेड्डी जिला, हैदराबाद- ५०० ०४६, तेलंगाना, भारत को संबोधित की जानी चाहिए। / The Bids should be addressed to Head, Technical Services, Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District. Hyderabad- 500 046, Telangana, India.
- भविष्य में सभी शुद्धिपत्र/परिशिष्ट टीआईएफआर हैदराबाद वेबसाइट/सीपीपी पोर्टल पर प्रकाशित किए जाएंगे और इसके लिए कोई अलग विज्ञापन जारी नहीं किया जाएगा। सभी संभावित बोलीदाताओं से अनुरोध है कि वे ऐसे किसी भी अपडेट/शुद्धिपत्र के लिए नियमित रूप से हमारी वेबसाइट देखें। / All future corrigendum/addendum will be published on TIFR Hyderabad website / CPP portal and no separate advertisement will be released for the same. All prospective bidders are requested to visit our website regularly for any such updates/corrigendum.
- कृपया संलग्न बोली दस्तावेज देखें जिसमें विनिर्देश, निष्पादित की जाने वाली विभिन्न प्रकार की वस्तुओं की मात्रा की अनुसूची और अनुबंध की शर्तों का पालन किया जाना तथा अन्य आवश्यक दस्तावेज शामिल हैं जिन्हें टीआईएफआरएच वेबसाइट / सीपीपी पोर्टल से भी देखा और डाउनलोड किया जा सकता है। / Please see the attached bid document consisting of specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents which can also be seen and downloaded from TIFRH website / CPP portal.
- निविदा प्रस्तुत करने की अंतिम तिथि 12.01.2026 को 13:00 बजे तक है। / Last date for submission of the tender is 12.01.2026 by 13:00 Hrs.



प्रमुख, तकनीकी सेवा विभाग /
Head, Technical Services Dept.

सूचकांक / INDEX

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CHAPTER-I**INFORMATION AND INSTRUCTIONS TO BIDDERS**

1. INTRODUCTION: The Tata Institute of Fundamental Research (TIFR) is a National Centre of the Government of India, under the umbrella of the Department of Atomic Energy, as well as a deemed University awarding degrees for master's and doctoral programs.

Webpage: <https://www.tifrh.res.in>

2. DEFINITION OF TERMS: In constituting these general conditions and the annexed specifications, the following words shall have the meanings herein assigned to them unless there is something in the subject or context inconsistent with such construction.

2.1. The term 'TIFR, Hyderabad' shall mean Tata Institute of Fundamental Research, Hyderabad, 36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District, Hyderabad 500046 and shall include the TIFR, Hyderabad's heirs, successors and assigns.

2.2. The term 'Engineer' and 'Engineer-in-Charge' shall mean Engineer-in-Charge, TIFR, Hyderabad or such other officers as may be duly authorized and appointed in writing by the TIFR, Hyderabad to act as Engineer-in-Charge for the purposes of the Contract.

2.3. The term 'Bidder' shall mean any individual or organization that submits a proposal or offer in response to the invitation to tender for participating in a Tender Process.

2.4. The term "Contractor or Supplier" shall mean the tenderer whose tender has been accepted by the TIFR, Hyderabad for award of contract and shall include such tenderer's heirs, successors and assigns approved by the TIFR, Hyderabad.

2.5. The term 'Sub-Contractor' shall mean the firm or person other than the contractor named in the contract for any part of the work or any person to whom any part of the work has been sublet by the contractor with the consent in writing of the Engineer-in-Charge and shall include such person's heirs, successors and assigns approved by the TIFR, Hyderabad.

2.6. The Term 'Inspector' shall mean any person appointed by or on behalf of the TIFR, Hyderabad to inspect supplies, stores or work under the contract or any person deputed by the Inspector for the purpose.

2.7. The term 'Particulars' shall mean, the following:

2.7.1. Specifications

2.7.2. Drawing

2.7.3. Sealed Pattern denoting a pattern sealed and signed by the Inspector.

2.7.4. Proprietary make denoting the product of an individual firm.

2.7.5. Any other details governing the construction, manufacture and/or supply as existing for the contract.

2.8. The term 'Specifications' shall mean the specifications annexed to or issued with these Conditions of Contract.

2.9. The term 'Site' shall mean the whole of the premises, buildings and grounds in or upon which the work or works is / are to be provided, executed, erected, done or carried out.

2.10. The term 'Equipment' shall mean and include any equipment, stores and materials to be provided and work to be done by the contractor under the contract.

2.11. The term 'Contract' shall mean letter of Intent / Award, Letter of Acceptance of Tender and shall include the conditions of contract, specifications, schedules, tender, guarantee, drawings and any further conditions which may be specifically agreed to between the parties as forming a part of the contract.

2.12. The term 'Tests' shall mean such tests as prescribed in the contract and as instructed by the Engineer-in-Charge to be performed by the contractor before the works are finally accepted by the TIFR, Hyderabad ready for commercial use complete with all items to the satisfaction of the Engineer-in-Charge.

2.13. The term 'Writing' shall include any manuscript, typewritten or printed statement under or over signature and / or seal as the case may be. Words importing singular shall also include plural and vice versa where context requires.

2.14. The term 'Item Rate Tender' shall mean tenders in which the contractors are required to quote rates for individual items of work as given in the schedule of quantities.

3. SCOPE & OBJECTIVE:

3.1. The Objective of the tender is to execute "**Supply, Installation, Testing and Commissioning of Chilled Water Units and its related works**" at TIFR Survey No. 36/P, Gopanpally (Village), Serilingampally (Mandal), Ranga Reddy Dist., Hyderabad – 500 046 as per the specifications and Bill of quantities mentioned in the Financial Bid.

3.2. Period of Completion of Work: **90 days** from the date of signing the work order and Contract / agreement.

3.3. Defect Liability Period: **12 months** from the date of handing over of completed system as per the tender.

4. INSTRUCTIONS:

4.1. **Pre-Bid Conference:** All prospective bidders are requested to attend a pre-bid conference on the time, date and venue (in-person) / zoom meeting (online) mentioned in the NIT above & TIFRH Tenders webpage for clarification on the Tenders' technical specifications and commercial conditions, besides discussions on any additional suggestions proposed by the bidders. If found necessary, a corrigendum to the tender documents would

be issued and would be put up on TIFRH website for information of all contractors and thereafter no further query/condition shall be entertained.

4.2. Site visit by the tenderer: The tenderer is advised to visit the site of work, at his own cost, and examine it and its surroundings to himself collect all information that he considers necessary for proper assessment of the prospective assignment.

4.3. Sufficiency of Tender: The tenderer shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.

4.4. Submission of Bids: Bids shall be submitted to Head, Technical Services, TIFR, Survey No. 36/P, Gopanpally (Village), Serilingampally (Mandal), Ranga Reddy Dist, Hyderabad- 500046 in a sealed Master envelope superscribed with Tender No. **TIFR/PD/CA25-168/ 251565**, Description: **“Supply, Installation, Testing and Commissioning of Chilled Water Units and its related works at TIFRH”** and **Due date: 12.01.2026**, containing two separate sealed covers clearly super-scribed as **“Technical Bid”** and **“Financial Bid”** before the closing date and time of submission in the following manner:

4.4.1. “Technical cum eligibility Bid (Part-I)”: This will contain Technical part, Eligibility Documents along with testimonials and Earnest Money Deposit (EMD) which shall be submitted in the form of Demand Draft/Pay Order/Banker's cheque issued by a Scheduled Bank, drawn in favor of “TIFR Center for Interdisciplinary Sciences”, Payable at Hyderabad, (To be enclosed with the Technical Bid (Part-I)).

4.4.2. “Financial Bid (Part-II)”: This will contain the complete financial bidding document duly filled in Schedule of Financial Quote & Tender Drawings.

4.5. Evaluation of Technical Bids: The technical bids received will be opened first and examined for EMD, Eligibility Criteria, Conditions, etc. Tenders without EMD shall be summarily rejected.

4.6. Evaluation of Financial Bids: Financial Bids of technically qualified bidders will only be opened. The financial bids should contain the complete financial bid document duly filled in Schedule of Financial Quote of Financial Bid and signed along with Tender drawings. Work will be awarded to the lowest bidder (L1) based on the financial evaluation.

4.7. Payment Schedule:

4.7.1. The contractor shall submit the bills for payments along with a detailed statement showing the actual works carried out under different heads of items in the format specified by the TIFR. Minimum value of the work for interim payment (One Running Bill) shall be 35% of the work order value. All interim and final bills will be settled based on the joint measurements of each item of work and certified by TIFR Engineer. The bills for

non-perishable materials on site may also be submitted and the payment by TIFR against the same shall be to the maximum extent of 60% of the value of these materials on production of sufficient documentary evidence i.e. Original invoice, Inventory, etc.

4.7.2. All interim bills will be paid within 30 days from the date of submission and Final Bill along with all relevant documents will be settled within 30 days from the date of submission with certification of TIFR Engineer.

4.8. Other Instructions:

4.8.1. The Contractor should adhere to the building bye-laws applicable for the area.

4.8.2. The submission of the bid by the bidder would imply that they have carefully read and agreed to the terms and conditions contained in this bid document.

4.8.3. This notice inviting bid document shall form a part of the contract document.

4.8.4. Canvassing, either directly or indirectly, in connection with the tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.

CHAPTER-II**TENDER ELIGIBILITY CRITERIA & INSTRUCTIONS TO BIDDERS**

TECHNICAL CUM ELIGIBILITY BID
(PART-I)

- (i) Earnest Money Deposit as stipulated.**
- (ii) “Eligibility Criteria” & “Schedules” for tender qualification.**

1. Earnest Money Deposit (EMD):

1.1. EMD shall be submitted in the form of Demand Draft/Pay Order/Banker's cheque issued by a Scheduled Bank, drawn in favor of "TIFR Center for Interdisciplinary Sciences", Payable at Hyderabad, (To be enclosed with the Technical Bid (Part-I)).

2. Eligibility Criteria: Contractors who fulfil the following requirements shall ONLY be eligible to apply:

2.1. The bidder should hold a valid labour license issued by appropriate authority and must be valid throughout the contractual period.

2.2. The bidder should provide copy of the following original certificates:

- PAN card from Income Tax Authority.
- GST registration document.

2.3. The bidder should submit IT Returns documents for the last three consecutive financial years ended on March 31, 2025 audited by the licensed Chartered Accountant.

2.4. Turnover: The bidder should have an average annual financial turnover (gross) of **Rs.4.32 Lakhs** during the immediate last three consecutive financial years ending March 31, 2025 (certificate from licensed Chartered Accountant to be provided). The value of annual turnover figures shall be brought to current value by enhancing the actual turnover figures at a simple rate of 7% per annum.

2.5. Profit/Loss: The bidder should submit the profit/loss statements of immediate last five consecutive financial years duly certified and audited by the Chartered Accountant. The bidder should not have incurred any loss (profit after tax should be positive) in more than two years during the immediate last five consecutive financial years ending 31st March, 2025.

2.6. The bidder should submit Technical Data Sheets as per Annexure-IX enclosed with this tender document in 'Chapter-VI: Annexures'.

2.7. Experience:

2.7.1. The bidder should have an experience of having successfully completed similar works in Research Institutes, Universities, Private Laboratories, R & D institutes, etc. in any Government /PSU/Private organizations of repute during the last seven years ending last day of the month previous to the one in which tender is invited.

- Three similar completed works each costing not less than **Rs.5.75 Lakhs**, or
- Two similar completed works each costing not less than **Rs.8.63 Lakhs**, or
- One similar completed work costing not less than **Rs.11.51 Lakhs**.
- The value of executed works shall be brought to current costing level by enhancing the actual value of work at a simple rate of 7% per annum; calculated from the date of completion to previous day of the last day of submission of tender.

2.7.2. The bidder should furnish copies of work orders and completion certificates in support of the aforementioned works information. 'Annexure-VIII' is enclosed with this tender document in 'Chapter-VI: Annexures' for reference.

2.7.3. Important Notes:

- a) 'Similar work' shall mean: "HVAC works"
- b) 'Cost of work' shall mean gross value of the completed work including the cost of materials supplied to the Client, but excluding those supplied free of cost. The applicant's performance for each work completed in the last seven years should be certified by an officer not below the rank of Executive Engineer or equivalent. Information.
- c) The bidder should have a full-fledged in-house project management team to undertake the jobs.
- d) Bidder's non-adherence to furnishing of information in the given format/schedule will lead to disqualification of the tender.

2.8. The bidder should submit the Local Content Certificate as per Annexure-III enclosed with this tender document in 'Chapter-VI: Annexures'.

2.9. The bidder should not be blacklisted by any office / department of Central / State Government / Public Undertaking etc. The bidder should submit the undertaking form as per 'Annexure-VI' enclosed with this tender document in 'Chapter-VI: Annexures'.

(On bidder/firm's letterhead)

SCHEDULE – A
PROFILE AND DETAILS OF THE BIDDER

1. Name of the firm :
2. a) Address of the firm :
- b) Telephone No. :
- c) Mobile No. of Contact Person :
- d) Valid email id:
- e) Branch Office if any, in Hyderabad. :
3. Type of Organization (Proprietorships / Partnership) Ltd. Co. / Co-Operative) (Copy of relevant document to be enclosed) :
4. Firm Registration Details: :
- a) Year of Establishment / Date of Incorporation
- b) Registration No.
- c) GST Registration No.
- d) Income Tax No. (PAN)
- e) Labour License Details
5. Nature of Business :
6. Experience as prime Agencies/ Contractors (in Yrs.) :
7. Name and address of Bankers :
8. Organization chart of the Company including names and positions of directors / key personnel :

SCHEDULE – B

DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS COMPLETED DURING THE LAST SEVEN YEARS ENDING PREVIOUS DAY OF LAST DAY OF SUBMISSION OF TENDERS

(I) Major Works: "HVAC works" (Copies of work orders and completion certificates are to be provided)

- Three similar completed works each costing not less than **Rs.5.75 Lakhs**, or
- Two similar completed works each costing not less than **Rs.8.63 Lakhs**, or
- One similar completed work costing not less than **Rs.11.51 Lakhs**.

Sr. No.	Name of work/ project and location	Description of work in brief	Name of the Engineer with full postal address.	Name of the client, also specify whether Govt. / Semi Govt. / Pvt. body with full postal address	Contract Amount in (Rs.)	Year of commencement	Date of Completion		Whether work was completed /uncompleted/ the contract was terminated from either side? Give Details.	Any other relevant information
							Stipulated Date	Actual Date		
1.										
2.										

(II) List of works / projects under execution above **Rs.5.75 Lakhs.**

Sr. No.	Name of work/ project and location	Description of work in brief	Name of the Engineer with full postal address.	Name of the Client, also specify whether Govt. or semi Govt. or Pvt. Body with full postal address	Contract Amount in (Rs.)	Stipulated date of work completion	Present stage of work; Slow progress if any, and reasons thereof	Any other relevant information
1.								
2.								
3.								

SCHEDULE – C

TECHNICAL PERSONNEL AND THEIR SPECIFIC EXPERIENCE

1. List of technical personnel in your establishment and give details about their technical qualification and experience:

Sr. No.	Name	Age	Qualification	Project Experience	Nature of works handled	Name of the project Handled	Date of employment in your organization	Indicate specific experience in <u>"HVAC works"</u> which he/she was employed
1								
2								

2. Indicate other points if any, to show your technical and managerial competency to indicate any important points in your favour.

(On bidder/firm's letterhead)

SCHEDULE – D
FINANCIAL POSITION AND WORKING RESULTS

		2020- 21	2021- 22	2022- 23	2023- 24	2024- 25
1	Annual turnover : (immediate last three consecutive financial years)					
2	Net Profit : (immediate last five consecutive financial years)					
3	Credit Facilities : from the Bank					
a)	Cash Credit : Rs.					
b)	Overdraft Limit : Rs.					
c)	Guarantee : Rs.					
d)	Others : Rs.					
4	Certificate from the Bankers regarding financial soundness of the applicant			Enclosed (Yes / No)		
5	Solvency Certificate from the Bankers			Enclosed (Yes / No)		

(Authorised Signatory)

(On bidder/firm's letterhead)

SCHEDULE – E

MISCELLANEOUS INFORMATION

- 1 Whether it would be possible to :
process Bank Guarantee for various
advances during execution of the
work.

- 2 Details of Civil Suits / Litigations :
arose during execution of the
contracts in the last 5 years.

- 3 Latest Income Tax Clearance :
Certificate

- 4 Name of the two senior officials of :
Organizations preferably
Govt./Semi Govt/ Autonomous/
Public Sector Organization for
whom you have executed
important and major process
chillers and related works who
may be directly contracted by
TIFR to gather information about
your ability, competence and
capacity of your
work/organization/etc.

- 5 Number of Supplementary sheets :
attached.

CHAPTER- III**TERMS & CONDITIONS OF THE CONTRACT****1. Validity Period of Tender:**

1.1. The validity period for acceptance of tender shall be of 75 (Seventy Five) from the last day of receipt of technical bid, further

(a) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to TIFR within 7 days after the last date of submission of bids, then the TIFR shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of earnest money absolutely irrespective of whether a letter of acceptance for the work is issued or not.

(b) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to TIFR after expiry of 7 days after last date of submission of bids, then TIFR shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of whether a letter of acceptance for the work is issued or not.

2. Acceptance of Tender:

2.1. The Competent Authority, on behalf of TIFR, Hyderabad reserves to itself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted. The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest tender or any other tender.

2.2. "Letter of Intent": A "Letter of Intent (LOI)" will be issued as an intimation to the successful tenderer / contractor that his/her tender has been accepted and the successful tenderer / contractor should submit the requirements within the due date specified in the LOI.

3. Performance guarantee:

3.1. The successful tenderer / contractor shall submit an irrevocable Performance Guarantee (PG) amounting to 5% of the contract value within 7 (seven) working days from the date of issue of the "Letter of Intent (LOI)" in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement.

3.2. The performance guarantee shall be in the form of Demand Draft / Pay Order / Banker's cheque / Government Securities / Fixed Deposit Receipt (FDR) or Guarantee Bonds of any Scheduled Bank in accordance with the form as Annexure – I hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to TIFR as part of the performance guarantee and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to TIFR to make good the deficit.

3.3. The Performance Guarantee shall be initially valid up to the stipulated date of completion period plus 60 days beyond the date of completion of all contractual obligations of the contractor including warranty obligations. In case the time for completion of work gets

enlarged, the contractor shall get the validity of performance Guarantee extended to cover such enlarged time for completion of work.

3.4. The letter for commencement of work / work order shall be issued to the contractor only after he/she submits the performance guarantee in an acceptable form within 7 (seven) working from the date of issue of the "Letter of Intent (LOI)".

3.5. The performance guarantee shall be returned to the contractor, without any interest, after recording of the completion certificate for the work by the competent authority.

3.6. The Engineer-in-Charge shall make a claim under the Performance guarantee except for amounts to which TIFR is entitled under the contract (notwithstanding and / or without prejudice to any other provisions in the contract agreement) in the event of:

(a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above (or) failure to attend and rectify the problems in the guarantee period, in which event the Engineer in-Charge may claim the full amount of the Performance Guarantee.

(b) Failure by the contractor to pay TIFR, Hyderabad any amount due, either as agreed by the contractor or determined under any of the Clauses / Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer-in-Charge.

3.7. In the event of the contract being determined or rescinded under provisions of any of the relevant clauses of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of TIFR, Hyderabad.

4. Security Deposit:

4.1. The successful tenderer / contractor shall also be required to submit a Security Deposit (SD) amounting to 2.5% of the contract value within 7 (seven) working days from the date of issue of the "Letter of Intent (LOI)" in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement.

4.2. The Security Deposit shall be in the form of Demand Draft / Fixed Deposit Receipt (FDR).

4.3. Security Deposit shall be initially valid up to one year from the date of completion of work. In case the time for completion of work gets enlarged, the contractor shall get the validity of Security Deposit extended to cover such enlarged time for completion of work. The Security Deposit shall be returned to the contractor, without any interest, after completion of defect liability period.

4.4. All compensation or the other sums of money payable by the contractor under the terms of this contract may be deducted from, or paid by the sale of a sufficient part of his security deposit or from the interest arising there from, or from any sums which may be due to or

may become due to the contractor by TIFR or any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions or sale as aforesaid, the contractor shall within 10 days make good in cash or fixed deposit receipt tendered by the State Bank of India or by scheduled banks (if deposited for more than 12 months) endorsed in favor of the TIFR, HYDERABAD, any sum or sums which may have been deducted from, or raised by sale of his security deposit or any part Thereof.

5. Signing of Work Order and Contract / Agreement:

5.1. The Notice Inviting Tender (NIT) and all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto shall form a part of the work order / contract document.

5.2. A 'Work Order' will be issued to the successful tenderer / contractor fulfilling the provisions contained / issued in the "Letter of Intent (LOI)".

5.3. The successful tenderer / contractor within 7 days from receipt of 'Work Order' shall provide his/her acceptance by signing the work order and contract / agreement as per the provisions/requirements issued in the 'Work Order'.

5.4. Each page of the Work Order and Contract / Agreement and all the documents attached to it shall be signed by both the Engineer-in-Charge or his authorized representative and the contractor, as per the conditions of the NIT and Work Order.

5.5. The Contractor shall commence work immediately after signing the Work Order and Contract / Agreement.

5.6. No payment for the work done will be made unless the Work Order and Contract / Agreement is signed by the contractor.

6. Levy / Taxes payable by contractor:

6.1. GST or any other tax, levy or Cess in respect of input for or output by this contract shall be payable by the contractor and TIFR shall not entertain any claim whatsoever in this respect.

6.2. The contractor shall deposit royalty and obtain necessary permits as required for supply of the sand, aggregate, stone etc. from local authorities.

7. Deduction of Income Tax : Income Tax deductions shall be made from all payments made to the Contractor as per rules and regulations in force, in accordance with the Income Tax Act, 1961 under section 194-C prevailing from time to time.

8. Work at Site:

8.1. Access to the works shall be allowed only to the Contractor/Supplier, Sub-Contractors or his duly appointed representatives. The Contractor/ Supplier shall not object to the execution

of other works by other contractors or tradesmen and shall afford them every facility for execution of their several works simultaneously with his own.

8.2. Work at the TIFR, Hyderabad's premises shall be carried out at such time as the TIFR, Hyderabad may approve but the TIFR, Hyderabad shall give the Contractor/ Supplier all reasonable facilities for the same. The Contractor/Supplier shall provide sufficient fencing, notice boards etc. to guard the works and warn the public.

8.3. The Contractor shall obey Central, Local and State regulations and enactments pertaining to workmen and labor and the Engineer-in-Charge shall have the right to enquire into and decide all complaints on such matters. The Contractor should comply with the Minimum Wages Act and should also ensure that safe practices are followed by his people at site.

8.4. The contractor should follow safety precautions and maintain safety PPE's to their workmen throughout the project. Penalty will be imposed by TIFRH if violation of safety precautions.

9. Delays: The Contractor/Supplier shall not be entitled to claim any compensation for any loss suffered by him on account of delays in commencing or executing the work, including delays in procuring Government controlled or other materials and delay in obtaining instructions and decisions from the Engineer-in-Charge.

10. Taking Over: The equipment when erected at site shall be deemed to have been taken over by TIFR, Hyderabad when the Engineer-in-Charge will have certified in writing that the equipment has fulfilled the contract conditions.

11. Extension of Time: The time allowed for the execution of works as specified in para "Scope & Objective" above shall be the essence of the contract. If the work is hindered by the Contractor by any reasons, the Contractor should immediately give notice thereof in writing to the Engineer-in-Charge seeking extension of time within 14 days of the happening of the event causing delay in prescribed forms i.e. A form of application by the contractor for seeking extension of time (Annexure –V) to the authority is appended with this tender in "Chapter-VI: Annexures". The authority/Engineer-in-Charge shall, if justified, give a fair and reasonable extension of time for completion of work after due consideration of the same within 30 days of the date of receipt of such request from the Contractor in prescribed form.

12. Liquidated Damages:

12.1. For all delays, which do not merit any extension of time, the Contractor/ Supplier shall pay penalty or Liquidated Damages (LD) to the TIFR, Hyderabad at the rate of 0.5% of the contract value per week for delay in supply or completion of work subject to the maximum 10 per cent of the contract value.

12.2. The amount of Liquidated Damages shall be recoverable from the payment due to the Contractor/Supplier up to maximum of 10% of value of contract. The deduction of Liquidated Damages shall not, however, absolve the Contractor/Supplier of his responsibility and

obligations under the contract to complete the work in its entirety and shall also be without prejudice to action by the TIFR, Hyderabad under clause: 'Termination of Contract by the TIFR, Hyderabad'. After that the same shall be completed by the TIFR, Hyderabad at the Contractor's/Supplier's risk and cost.

13. Other Damages and Insurance:

13.1. Contractor's workmen / employee's Insurance: The Contractor/Supplier/Manufacturer shall be responsible for providing insurance for his/her workmen / employees engaged in performance of the contract. TIFR, Hyderabad shall not be liable in respect of any damages or compensation payable at law in respect of or in consequence of any accident or injury to any workman or any other person employed by the contractor and the Contractor shall indemnify and keep indemnified TIFR, Hyderabad against all such damages and compensation and against all claims, demands, proceedings, costs, charges & expenses, whatsoever in respect of or in relation thereof.

13.2. The Contractor/Supplier/Manufacturer shall also indemnify the TIFR, Hyderabad against all claims which may be made upon the TIFR, Hyderabad whether under the Workmen's Compensation Act or any other statute in force during the currency of this contract or at common law in respect of any employee of the Contractor/Supplier or of any of his sub-contractor and shall at his own expense effect and maintain until the work has been 'Taken Over', with an approved office. The contractor shall furnish a copy of the labor license before commencement of work. If the aforesaid are not applicable, the contractor should furnish declaration to this effect and shall indemnify TIFR, Hyderabad, for violation of any such compliances.

13.3. "Contractor's All Risk (CAR)" insurance: The Contractor shall insure the work for a sum equivalent to the Contract value together with materials and plants for incorporation therein, to the full replacement cost by providing the CAR policy document before the commencement of work.

13.4. Any other Insurance(s) and Evidence: The Contractor/Supplier/Manufacturer shall also at his own cost carry and maintain any and all other insurance(s) which may be required for the Contractor's Equipment and other things brought onto the Site by the Contractor, for a sum sufficient to provide for their replacement at the Site.

13.5. The Contractor/Supplier/Manufacturer shall reinstate all damage of every sort mentioned in this clause, so as to deliver up the whole of the contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to the property of the Owner/third parties.

13.6. The Contractor/Supplier/Manufacturer shall indemnify the TIFR, Hyderabad against all claims which may be made against the TIFR, Hyderabad, by any member of the public or other party, in respect of anything which may arise in respect of the works or in consequence

thereof and shall, at his own expense, effect and maintain, until the work has been 'Taken Over'.

13.7. The Contractor/Supplier/Manufacturer shall be responsible for all injury to persons, animals or things and for all damage to the works, structure of, and decorative work in the property which may arise from operation or neglect of himself or any of his Sub-Contractor or of his or Sub-Contractor's employees, whether such injury or damage may arise from carelessness, accident or any other cause whatever in any way connected with the carrying out of this contract. This clause shall be held to include any damage to buildings, whether immediately adjacent or otherwise, any damage to roads, streets, foot paths, as well as all damage caused to the works forming the subject of this contract by frost or other inclemency of weather. The Contractor/Supplier shall indemnify TIFR, Hyderabad and hold him harmless in respect of all and any expenses on property as aforesaid and also in respect of any claim made in respect of injury or damage under any acts of Government or otherwise and also in respect of any award of compensation or damages consequent upon such claim.

13.8. The TIFR, Hyderabad, with the concurrence of the Engineer In-Charge, shall be at liberty and is hereby empowered to deduct the amount of any damages compensation costs, charges and expenses arising or accruing from or in respect of any such claims or damages from any sums due to or become due to the Contractor/Supplier.

14. Guarantee and Defects Liability Period: The Contractor/Supplier/Manufacturer shall guarantee that all equipment shall be free from any defect due to the defective materials and bad workmanship and that the equipment shall operate satisfactorily and that the performance and efficiencies of the equipment shall be not less than the guaranteed values. The guarantee shall be valid for a period of 12 months after the date of commissioning as certified by the Engineer-in-Charge. Any parts found defective shall be replaced free of all costs by the Contractor/Supplier. The services of the Contractor's/Supplier's personnel if requisitioned during this period for such work shall be made available free of any cost to the TIFR, Hyderabad. If the defects are not remedied within a reasonable time, the **TIFR, Hyderabad** may proceed to do so at the Contractor's/Supplier's risk and expense without prejudice to any other rights.

15. Terms of Payment:

15.1. BILL FORMAT

Work Order-Item No.	Description of Items (At least 2 lines)	Unit	Work Order Quantity	Executed Quantity	Rate	% of work done	Total Amount

NOTE:

- All quantities in the bill should be cumulative.
- All measurements should be in the order of tender or work order sequence and should be recorded in the measurement book. The Measurement should be provided strictly in the below mentioned format only.
- The contractor will be paid only Three Running Account (RA) Bills and Final Bill considering the progress of works based on measurement of works completed. The contractor shall submit the bills for payments along with a detailed statement showing the actual works carried out under different heads of items in the format specified by TIFR-, Hyderabad.

15.2. MEASUREMENT FORMAT

Work Order-Item No.	Description of Item & Location against each Measurement taken	Nos.	Length	Width	Height	Qty.	Remarks

NOTE:

- The works which have been certified for running bills will also be verified along with the final bill and any defects found need to be replaced / rectified by the contractor at his cost. Till the time, the site is handed over in full, it is the contractor's liability to safeguard the works done and completed at site. The Progress of work should not be affected in any way quoting the reason of non-availability of funds / materials / releasing of Running bill. The liability of the contractor is to complete all works in his scope in the scheduled time as per the terms of contract and will not relieve the contractors from his obligations once the Running bill is paid / kept pending.

15.3. Final Payment:

Payments of Final bill shall be made after deduction of Security Deposit /Performance Guarantee as specified. The Security Deposit / Performance guarantee, shall be refunded on expiry of the Defects Liability Period after rectifying all defects to the satisfaction of the TIFR, Hyderabad / E.I.C.

The acceptance of payment of the final bill by the Contractor would indicate that he would have no further claim in respect of the work executed.

16. Special conditions of Contract governing supplies of the Equipment of this Tender:

16.1. Scope:

16.1.1. This specification covers the supply of material as per the enclosed details and quantities and supervision of erection/installation, testing and commissioning of the material.

16.1.2. The Contractor/Manufacturer/Supplier shall quote for all the materials along with accessories as mentioned in the enquiry.

16.1.3. All the supply shall be in accordance with relevant I.S. Specifications and recognized standards.

16.2. Inspection & Testing and commissioning of Material:

16.2.1. Contractor/Manufacturer/Supplier shall submit the lists of Type Tests and Routine Tests to be conducted on the material in the Technical Data Sheet.

16.2.2. All the materials shall be tested at factory as per IS Specifications of material by TIFR, Hyderabad's Engineer-in-Charge/Engineers before dispatch at the cost of Contractor/Manufacturer/Supplier.

16.2.3. Contractor/Manufacturer/Supplier shall inform the concerned Engineer-in- Charge for inspection and testing in accordance and fix up a suitable date for the same.

16.3. Test Certificates: Contractor/Manufacturer/Supplier shall submit the Test Certificates of all materials.

16.4. Taxes & Duty:

16.4.1. Contractor/Manufacturer/Supplier shall quote the basic price of material. Excise Duty, Custom Duty, Sales Tax, GST, Octroi, Delivery Charges, Transit Insurance and/or any other charges, if any, must be indicated separately.

16.4.2. TIFR being a research institute of Govt. of India, is eligible for Excise Duty Exemption on equipment supplies. Necessary exemption certificate will be provided by TIFR.

16.4.3. Transit Insurance: The Transit Insurance from the point of dispatch to the site of erection shall be in the scope of Supplier and the cost shall be indicated separately.

16.5. Delivery of Material:

16.5.1. The Contractor/Manufacturer/Supplier shall be held responsible for loading of all equipment and for the stores being sufficiently and properly packed for transport by rail, road, sea or air so as to ensure their being free from any loss or damage on arrival at destination. The packing and marking of packages shall be done by and at the expenses of

Manufacturer/Supplier. Each package shall contain a packing note quoting work order number and detail of the contents.

16.5.2. All the materials must be delivered at site i.e. TIFR at 36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District, Hyderabad-500046. The unloading and positioning of all equipment at the designated locations specified by the Engineer In-Charge shall be in the scope of the Supplier. The Supplier shall arrange for handling equipment, labour for rigging, etc. as required.

16.5.3. Material must be delivered at site in all respects as mentioned in the work order prior approval of the respective technical data sheet /pre dispatch inspection report by TIFR, Hyderabad E.I.C.

16.6. Guarantee:

If during the period of guarantee any fault or defect arises, the material shall be replaced/repaired immediately free of cost, as well as any replacement of accessories required shall be done free of cost.

16.7. Mistake in Drawing:

The Contractor/Supplier shall be responsible for and shall pay for any alterations in works due to any discrepancies, errors or omissions the drawings or other particulars supplied by him whether such drawings or particulars have been approved by the TIFR, Hyderabad or not.

16.8. Responsibility for Completeness:

Any fittings or accessories which may not be specifically mentioned in the specifications but which are usual or necessary are to be provided by the Contractor/Supplier without extra charge and the equipment must be complete in all details.

16.9. Extra/Deviation items & Variations in quantity

TIFR-Hyderabad has the right to omit/delete any of the items and also increase/decrease the quantities mentioned in the tender. No claim or any compensation in this regard will be accepted or paid to the contractor. However, if any new /additional items/deviated items are to be executed, the contractor is bound to execute such items with prior approval from TIFR-Hyderabad after furnishing the proper rate analysis for such extra/deviated items.

16.10. Rejection of Defective Equipment:

16.10.1. If the equipment after the acceptance thereof is discovered to be defective, notwithstanding that such defects could have been discovered at the time of inspection or found to have failed to fulfill the requirements of the contract or developed defects after the erection within a period of 12 months from the date of erection, even if such erection is done by the TIFR, Hyderabad, he shall be entitled to give a notice on the Contractor/Supplier setting forth details of such defects or failure and the Contractor/Supplier shall, provided such notice is given within a period of 14 months from the date of such erection or

acceptance, forthwith make the defective equipment good or alter the same to make it comply with the requirements of the contract at his own cost and further if in the opinion of the TIFR, Hyderabad, the defects are of such a nature that the defects cannot be made good or required without impairing the efficiency or workability of the equipment or if in the opinion of the TIFR, Hyderabad the Equipment cannot be repaired or altered to make it comply with the requirements of the Contract, the Contractor/Supplier shall, provided a notice given by the TIFR, Hyderabad in this behalf within a period of 14 months from the date of erection or acceptance thereof, remove and replace the same with the equipment conforming to the stipulated particulars, in all respects at the Contractor's/Supplier's own cost. Should he fail to do so within a reasonable time, the TIFR, Hyderabad may reject and replace, at the cost of the Contractor/Supplier, with equipment of the same particulars or if equipment conforming to the stipulated particulars are not in the opinion of the TIFR, Hyderabad readily procurable, such opinion being final, then with the nearest substitutes.

16.10.2. In the event of such rejection the TIFR, Hyderabad shall be entitled to use the Equipment in a reasonable and proper manner for a time reasonably sufficient to enable him to obtain replacement equipment as herein before provided.

16.11. Inspection and Final Tests:

All tests necessary to ensure that the Equipment complies with the particulars and guarantee shall be carried out at such place or places as may be determined by the Inspector. Should, however, it be necessary for the final test as to performance or guarantee to be held over until the Equipment is erected at site they shall be carried out within one month of completion of erection.

16.12. Intimation about Delivery:

If the TIFR, Hyderabad shall have notified the Contractor/Supplier in writing that the former is not ready to take delivery, no equipment or materials shall be forwarded until an intimation in writing shall have been given to the Contractor/Supplier by the TIFR, Hyderabad that he is ready to take delivery.

16.13. Delay in erection:

Wherever erection of an equipment or machinery is the responsibility of the Contractor/Supplier as a term of the contract and in case the Contractor fails to carry out the erection as and when called upon as to do within the period specified by the TIFR, Hyderabad, the TIFR, Hyderabad shall have right to get the erection done through any source of his choice. In such an event, the Contractor/Supplier shall be liable to bear any additional expenditure that the TIFR, Hyderabad may incur towards erection. The Contractor/Supplier shall, however not be entitled to any gain due to such an action by the TIFR, Hyderabad.

16.14. Definition of Equipment:

The work 'Equipment' wherever, it appears in these 'Special Conditions of Contract' governing supplier of Equipment in this Tender shall mean all switchgears, panels, etc. or

parts thereof or what the Contractor/Supplier agrees to supply under Contract as specified in the work order.

16.15. Force Majeure:

Normally Force Majeure shall cover only acts of God, fire, wars, strike, riots and civil commotion, floods, epidemic, quarantine related strikes, freight embargoes, etc. The contractor shall not be liable for any liquidated damages for delay or any failure to perform the contract arising out of Force Majeure conditions, provided that the contractor shall within ten days from the beginning of such delay notify the department in writing the cause of delay along with convincing supporting evidence. The department once convinced and accepted the reason may extend the supply completion period by a suitable / reasonable margin.

16.16. Termination of Contract by the TIFR, Hyderabad:

16.16.1. If the Contractor/Supplier commits any 'Act of Insolvency' or shall be adjudged an Insolvent or shall have an order for compulsory winding up made against him or pass effective resolution for winding up voluntarily, or if the Contractor/Supplier shall suffer any payment under this contract to be attached by or on behalf of any of the creditors of the Contractor/ Supplier, or shall assign the Contract without the prior consent in writing of the Engineer In-Charge, or shall charge or encumber this Contract or any payments due or which may become due to the Contractor/Supplier there under, or if the Engineer In-Charge shall certify in writing to the TIFR, Hyderabad that the Contractor/Supplier –

16.16.1.1. has abandoned the Contract, or

16.16.1.2. has failed to commence the works, or has without any lawful excuse these conditions suspended the progress of the works for seven days after receiving from the Engineer In-Charge written notice to proceed, or

16.16.1.3. has failed to proceed with the work with such due diligence and failed to make such due progress as would enable the works to be completed in accordance with the approved programme of work, or

16.16.1.4. has failed to remove materials from the site or to pull down and replace work for seven days after receiving from the Engineer In-Charge written notice that the said materials or work were condemned and rejected by the Engineer In-Charge under these conditions, or

16.16.1.5. has neglected or failed persistently to observe and perform all or any of the acts matters or things by this contract to be observed and performed by the Contractor for seven days after written notice shall have been given to the Contractor/ Supplier requiring the Contractor/Supplier to observe or perform the same, or

16.16.1.6. has to the detriment of good workmanship or in defiance of the Engineer In-Charge's instructions to the contrary sub-let any part of the contract, then and in any of the above said causes, the TIFR, Hyderabad with the written consent of the Engineer In-Charge may, notwithstanding any previous waiver, after giving seven days' notice in writing under the provisions of this clause to the Contractor/Supplier, determine the contract but without prejudice to the powers of the Engineer In- Charge or the obligations and liabilities of the Contract, the whole of which shall continue to be in force as if the contract

has not been so determined and as if the work subsequently executed has been executed by and on behalf of the Contractor/ Supplier.

16.16.2. After the issue of such notice, the Contractor/Supplier shall not be at liberty to remove from site any equipment, tools and materials belonging to him which shall have been placed thereon for the purpose of the works and the TIFR, Hyderabad shall have lien upon such equipment, tools or materials to subsist from the date of such notice and until the notice shall have been complied with.

16.16.3. If the Contractor/Supplier shall fail to comply with the requirements of said notice for seven days after such notice has been given, the TIFR, Hyderabad shall have the power to enter upon and take possession of the works and site and all equipment, tools and materials thereon, and to engage any other person, firm or agency to complete the works, utilizing the equipment, tools and materials to the extent possible. The TIFR, Hyderabad shall not in any way be responsible for damage or loss of the tools, equipment and materials and the Contractor/Supplier shall not have any compensation therefore.

16.16.4. Upon completion of the works, the Engineer In-Charge shall certify the amount of expenditure properly incurred consequent on and incidental to the default of the Contractor/Supplier as aforesaid and such amount shall be deducted from the payments due to the Contractor/Supplier, including the Security Deposit. If the said amount exceeds the payment due to the Contractor/Supplier, the TIFR, Hyderabad shall be at liberty to dispose off any of the Contractor's/Supplier's materials, tools or equipment and apply the proceeds for the payments due from the Contractor/Supplier and recover the balance by process of law.

16.16.5. After the works have been completed after the amounts due to the Contractor/Supplier, the Engineer In- Charge shall give notice in writing to the Contractor/Supplier to remove the surplus equipment and material from site. If such equipment and materials are not removed within a period of 14 days after such notice, the TIFR, Hyderabad shall have the power to remove and sell the same holding the proceeds less the cost of removal and sale, to the credit of the Contractor/Supplier. The TIFR, Hyderabad shall not be responsible for any loss sustained by the Contractor/Supplier from the sale of the equipment and material.

16.17. Contractor's Representative:

The Contractor/Supplier shall employ at least one qualified representative (i.e. Air compressor work supervisor License with minimum 3 years of experience of similar works as stipulated by TIFR, Hyderabad in the work order) whose name shall have previously been communicated in writing to the Engineer In-Charge and approved by him to supervise the erection. Any written order or instructions given to the representative shall be deemed to have been given to the Contractor/Supplier. The Engineer In-Charge shall be at liberty to object to any particular representative/or any persons employed by the Contractor/Supplier on the work and the Contractor/Supplier shall remove the person objected to, on the receipt of the Engineer In-Charge, in writing, a request requiring him to do so and shall provide in

his place another competent representative acceptable to the Engineer In-Charge. The Contractor's/Supplier's representative shall be a qualified electrical/ mechanical engineer possessing adequate site experience in similar nature of works.

16.18. Completion Time:

Unless otherwise agreed in writing between the TIFR, Hyderabad and the Contractor/Supplier, the work contract shall be completed within the stipulated period mentioned elsewhere in this tender document from the date of Work Order issued to Contractor/Supplier by the TIFR, Hyderabad.

16.19. Delivery of Material at Site:

The Contractor/Supplier/Manufacturer shall arrange for safe transit and delivery of material at site and unloading the material at site.

16.20. Measurements:

All joint measurements of quantities shall be done by the Contractor at his own cost in the presence of the Engineer In-Charge or any authorized person deputed by him who will certify the routes, length and quantities etc. for the purpose of determination of the amount payable.

16.21. Spare Parts & Manuals:

Manufacturer/Contractor/Supplier should submit operation, maintenance and spare part list and manuals for all equipment.

16.22. Training:

Manufacturer/Contractor/Supplier should provide training for operation and maintenance free of cost for equipment supplied.

16.23. Special Instruction for bidding process

This tender is a two part tender. The Part-I: Technical Bid and Part-II: Financial Bid. Bidders shall seal each bid separately with a clear label on the envelope about its content. Both the bids should be submitted in a single drop two cover method. Any pricing details must not appear in the Part-I: Technical Bid.

16.24. Drawings and Documentation:

Contractor should make and submit the drawing as per the site conditions and take approval from EIC. As-built drawings as specified in this technical specifications shall be submitted by the Contractor.

16.25. Permissions and Approvals:

All statutory permissions and approvals from Electricity authority as may be required for commissioning of the entire system shall be carried out by the contractor. All necessary documentation for obtaining such permissions and approvals shall be done by the

contractor. TIFR, Hyderabad shall assist in providing required declarations. Statutory fees shall be paid by the TIFR, Hyderabad.

16.26. Guarantee (Equipment):

The equipment shall be guaranteed against all design and manufacturing defects, poor workmanship etc. for a period of 12 months from the date of commissioning or 15 months from the date of supply, whichever is earlier. Any defects discovered during this period shall be rectified by the vendor free of cost to the TIFR, Hyderabad.

CHAPTER-IV**SPECIFICATIONS AND TECHNICAL DETAILS****TECHNICAL SPECIFICATION****1.FAN COIL HI WALL AND CEILING MOUNTED UNITS:****1.1 General:**

- The scope shall further include supply, installation, testing and commissioning of fan coil Hi Wall units and Ceiling mounted units. The fan coil units shall be wall/ ceiling mounted draw through type complete with finned coil, fan with motor, insulated drain pan, cleanable air filters and fan speed regulator and other controls as described. Performance of the complete FCU shall be certified as per AHRI Standard.

1.2 Casing:

- All sheets used for casing panels shall be with 1.25 mm thick pre-painted precoated/powder coated GI sheet.

1.3 Cooling coil:

- Coils shall be made of 10mm or larger copper tube with plain aluminum fins expanded on to the tube. Number of fins shall not be less than 10-12 fins per inch. Coils shall be tested to 20 bar working pressure. Supply and return connections shall be 16mm O.D copper arranged either right or left handed as required. Automatic air vents shall be provided on the return headers with a flexible pipe discharging into the drain pan. End connections shall have supply, return and control solenoid valves (on the return side). Coil design shall be such that the coil could be disconnected and removed from the unit for cleaning and maintenance. The coil circuit should be sized for adequate water velocity but not exceeding 1.8 m/s. The air velocity across the coil shall not exceed 155 m/min.

1.4 Fan:

- This shall consist of two lightweight aluminum impellers of forward curved type, both statically and dynamically balanced, along with properly designed GI sheet casings. Fans shall be slow-speed direct driven. Fans shall have three speeds (100%, 70% & 50%) and shall be quiet in operation. The maximum sound power level of the unit shall not exceed NC 35. Fan motors shall be single phase 220V 50Hz or 3 phase 400V with built in thermal overload protection and shall be capable of reliable starting and vibration free operation upto 90% of the rated voltage. The motor shall be mounted on a Heavy Gauge motor mounting plate, minimum 3 mm thick and capable of being removed easily. The 3-speed type Brushless Direct Current type (BLDC) motor can also be used as it has high torque, high PFC value, longer life cycle, and reduced noise pollution levels, while generating up to 140% more instant

air volume and shall be factory wired to a terminal block mounted within the fan section. Motors shall be having extended shafts on both sides.

1.5 Drain Pan :

- For ceiling concealed fan coil unit a full size double skin drain pan shall be fabricated of 1.00 mm stainless steel grade SS304. 25mm polystyrene or polyurethane shall be sandwiched or foamed-in. The two skins shall not be interconnected at any point. The pan shall be large enough to contain the unit and the coil connection, shut-off valves, control valves etc. Units shall be mounted on the pan with rubber bushes. Inside of the pan shall be finished smooth and pitched towards a 25mm drain connection located on the same side as the coil connections. Drain shall be connected to the drain pipe with flexible connection.

1.6 Air Filter:

- The filter shall be cleanable type 15mm thick with 90% efficiency down to 10 micron of dry cleanable synthetic type to be mounted behind the return air grill in the unit casing.

1.7 Automatic controls:

- The unit should be provided with a factory fitted valves package. The unit control package shall consist of a two way or three way solenoid or motorized water valve and two shut-off valves. The motorised valve shall be integrated with the unit and based on the set point valve shall be regulated. The valve shall be fixed at a convenient location. The thermostat shall be cordless remote with the speed control. The water valves on inlet line shall be of gun metal ball type with internal water strainers, having BSP female pipe thread inlet and flare type male pipe thread outlet connection. The valves on the return line shall be as above, but without the water strainer. A cordless remote shall consist of (a) ON-OFF room thermostat having digital display with adjustable set point. (b) Control switch with ON-OFF and High, Medium & Low Fan speeds ©.

1.8 Water Connections:

- The water lines shall be finally connected to the coil of the fan coil unit, by at least 300mm long, type 'L' seamless solid drawn copper tubing, with flare fittings and connections.

1.9 Painting:

- All equipment shall be supplied as per manufacturer's standard finish painting.

2.PIPING WORKS:

- The scope shall further include supply and laying of all piping works, chilled water piping, drain piping, allied works like fixing of valves and other accessories involved in this project.

2.1.MATERIAL:

- All chilled water shall be of MS **Class C** ERW pipe and shall conform to IS 1239 Standards & joints shall be welded.

Pipe dia – mm	Thickness – mm
➢ Upto 150 mm dia.	: MS Class 'C' as per IS 1239 Part - I
➢ 200 mm dia.	: 6 mm as per IS 3589
➢ 250 & 350 mm dia.	: 6 mm as per IS 3589
➢ 400 & above	: 7 mm as per IS 3589

Pipe Fittings dia(mm)	Specification
➢ Up to 150 mm dia.	: MS to IS 1239 Part - II
➢ Above 150 mm dia.	: To be fabricated from parent pipe

2.2.FABRICATION AND INSTALLATION:

- The ends of pipe lengths to be welded shall be cut square by saw or cutter and the edges beveled to form a 'V' groove before welding.
- The contractor shall design adequately all brackets, saddles, clamps, hangers, etc., and be responsible for structural safety and integrity. Further, while providing the supports, care shall be taken to ensure freedom from vibration.
- All supporting arrangements including necessary M.S.Channels/Angels,suspenders,PUF saddles, brackets, rods, bolts and nuts, etc., and all civil work related thereto - including drilling of holes for fixing grip bolts and any chipping and finishing, shall be included within the scope of the work of the contractor and shall be carried out under the scope of HVAC system.
- All MS angles, channels, rods, brackets, etc., used for supporting arrangements shall be provided with a coat of red-oxide primer both before and after placing them in position. All supports shall be finally painted with two coats of black enamel paint.
- Vertical risers shall be parallel to walls and column lines and shall be straight and plumb. Risers passing from floor to floor shall be supported at each floor by clamps or collars attached to pipes and transmitting the load to the structure through 12 mm (1/2 ins.) Thick rubber pad or any suitable resilient material. Where pipes pass through the terrace floor, suitable flashing shall be provided to prevent leakage. Risers shall also have a suitable elbow or concrete pipe support at the lowest point.
- Pipe sleeves of 50 mm & larger in diameter shall be provided wherever pipes pass through walls or structures and the annular space shall be filled with felt and finished with retaining rings to isolate any vibrations from being transmitted to walls/structures. Fire sealant shall be used wherever is required.
- Insulated piping shall be supported in such a manner as not to put undue pressure on the insulation. 14 G GSS shall be provided between the insulation and the clamp, the saddle or roller extending at least 100 mm on either side (of the clamp, saddle or roller). The method of support shall be approved by the Consultants / Project Managers. PUF saddles of 120 kg/cub. Mt. shall be used for supporting the piping on the channels / concrete pedestals. PUF saddles shall be painted with bituminous paint.

2.3.SUPPORT SPACINGS:

The following spacing is recommended for the pipe supports:

Pipe dia – mm	Spacing of Supports - Mtr
➢ 19 to 25 mm	1.80
➢ 32 to 150 mm	2.40
➢ 150 mm & above	2.40

3.CHILLED WATER PIPES INSULATION.:

- All chilled water pipes shall be duly insulated after hydrostatic testing with closed-cell elastomeric nitrile rubber insulation of Class 'O' fire rating. The insulation material shall have a minimum density of 45 kg per cubic meter and a minimum thickness of 32mm for all pipe sizes. The insulation shall have a thermal conductivity not exceeding 0.034 W/mK. The insulation shall be applied with the manufacturer's recommended adhesive, ensuring that all joints and seams are sealed to form a vapour-tight surface. The insulation shall be continuous over pipe supports and hangers, and shall be protected against mechanical damage with suitable coverings as directed.

4. BUTTERFLY VALVES:

- The scope shall further include the supply, installation, testing, and commissioning of manual butterfly valves of various diameters including 80mm, 50mm, and 40mm. Each butterfly valve shall be of the wafer, with a cast iron (CI) body, stainless steel (SS) disc, nitrile rubber (NBR) seat, and O-ring. The valves shall be complete with matching PN16 rated flanges, bolts, nuts, and gaskets, and shall be designed for a pressure rating of PN 16. The valves shall be manually operated through lever or gear mechanism as applicable, and shall conform to IS 13095 and BS 5155 standards. After installation, each valve shall be duly insulated to the same specification as the connected piping to prevent condensation and heat loss.

5.MOTORISED BUTTERFLY VALVE:

- The scope shall further include the supply, installation, testing, and commissioning of motorized butterfly valves of 80mm diameter for automatic control of chilled water flow. These valves shall be provided with a cast iron body, stainless steel disc, nitrile rubber seat, and O-ring, suitable for a minimum pressure rating of PN16. Each motorized valve shall be equipped with an electric actuator of protection class IP55, suitable for 230V AC or 24V DC power supply as required. The actuator shall be capable of accepting control signals of 0–10V DC or 4–20mA, and shall provide a corresponding feedback signal to the Building Management System (BMS) or control panel. The work shall include all fittings, SS nuts, bolts, gaskets, electrical cabling between valve and sensor, and all materials and labour required for complete installation, testing and commissioning of the system as per specifications and site requirements.

6.FLANGES & UNIONS:

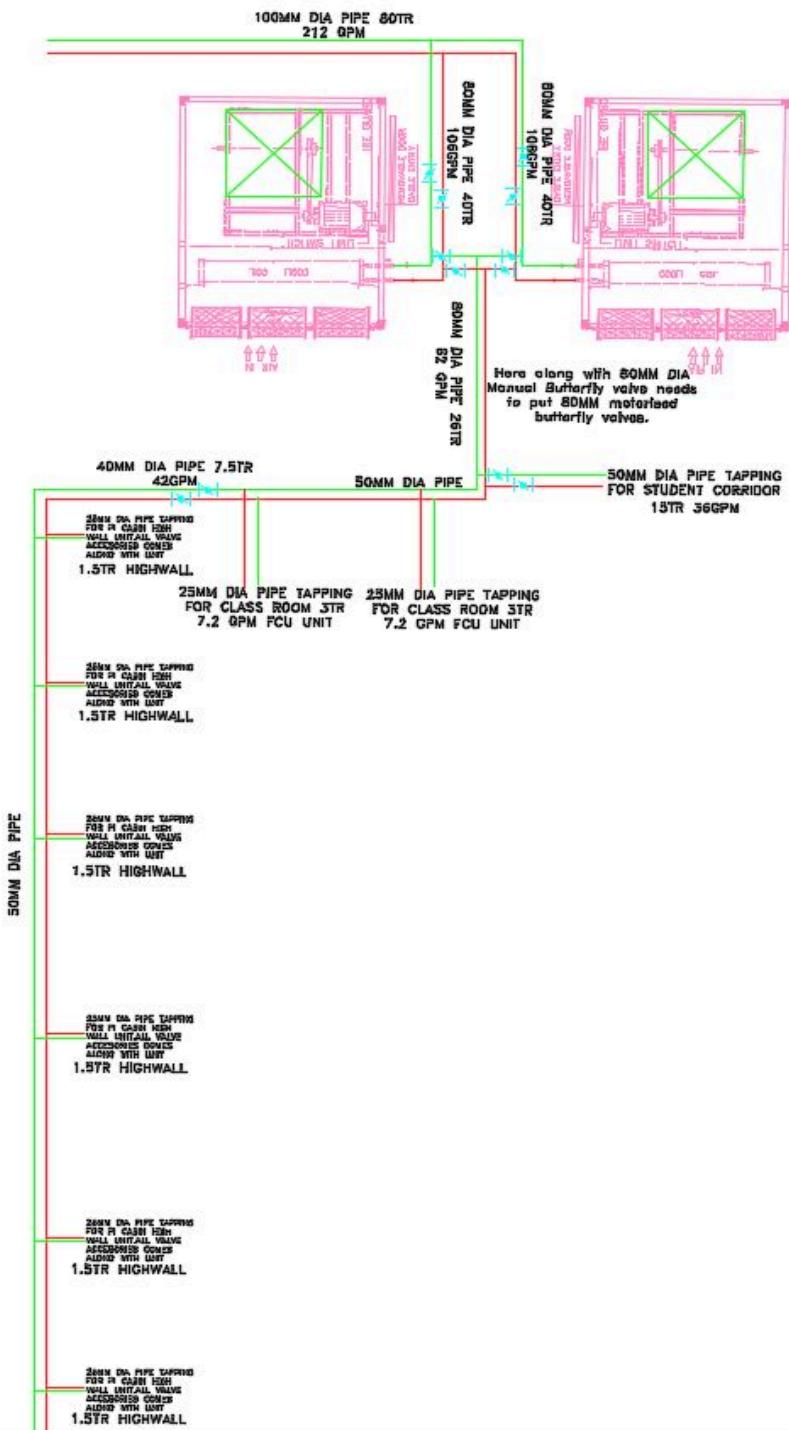
- Sufficient number of flanges and unions shall be provided as required to facilitate the maintenance work after the piping is installed. Necessary gaskets shall be used. These shall be insulated with the same specifications of pipe insulation.

APPROVED MAKES

S.No.	ITEM	APPROVED MAKES
1	FAN COIL UNIT HI-WALL/CEILING CONCEALED UNIT	Carrier/Zeco/Equivalent
2	M.S.PIPING	Jindal / Tata/SAIL/Equivalent
3	INSULATION	Armaflex/K-Flex/Equivalent
4	BUTTERFLY VALVE	Advance / Audco/Honeywell/Equivalent
5	2 WAY MOTORIZED VALVE	Honeywell/Johnson Controls/Equivalent

STANDARDS

- **ASHRAE 15 / IS 660:** Safety code for mechanical refrigeration.
- **EN 378:** Refrigerating systems and heat pumps – safety and environmental requirements.
- **AHRI 550/590:** Performance rating of water-chilling and heat pump equipment.
- **IS 14846:** Industrial valves – specification for steel or cast iron types.
- **IS 13095 / IS 778:** Brass/Bronze valves – general purpose.
- **EN 12266 / ISO 5208:** Pressure and leakage test for metallic valves.
- **ASME B16.34:** Valves – flanged, threaded, and welded ends.

CHAPTER-V
DRAWINGS
SCHEMATIC SECOND FLOOR LEFT WING


TOP-VIEW



CHAPTER-VI**ANNEXURES****ANNEXURE-I****FORM OF PERFORMANCE GUARANTEE (BY BANK GUARANTEE)**

1. In consideration of the TIFR-Hyderabad, Hyderabad having agreed under the terms and conditions of Letter of Intent

/ Agreement No..... dated..... made
between and..... (Here in after..... called “
the said Contractor(s)”) for the work
..... (Here in after called “the said Letter of Intent /
Agreement”) having agreed to production of a 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, we
..... (Indicate the name of the Bank) (hereinafter referred to as “the Bank”)
Hereby undertake to pay to TIFR an amount not exceeding Rs..... (Rs only) on demand by TIFR.

2. We..... (indicate the name of Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from TIFR 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 TIFR any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.

4. We (indicate the name of 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 TIFR under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-charge on behalf of the TIFR certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.

5. We (indicate the name of Bank) further agree with TIFR that TIFR shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the 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 TIFR 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 of omission on the part of TIFR or any indulgence by TIFR 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 of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

7. We,..... (indicate the name of Bank) lastly undertake not to revoke this guarantee except with the previous consent of TIFR in writing.

8. This guarantee shall be valid up to, unless extended on demand. 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 discharged.

Signed and sealed

Dated the day of..... for..... (indicate the name of Bank) *(Note: The Letter of Intent shall form part of the Agreement)

ANNEXURE-II**UNDERTAKING BY THE TENDERER**

I / We have read and examined the Tender document including terms & conditions, specifications, Schedule of quantities, drawings and designs, general rules & directions, General Conditions of Contract, Special Conditions of Contract and all relevant other documents, publications and rules referred to in the Conditions of Contract and all other contents in the tender documents for the work.

I / We, hereby tender for execution of the work specified for the TIFR-Hyderabad, Hyderabad within the time specified and in accordance in all respects with the specifications, designs, drawings and instructions in writing.

We agree to keep the tender open for seventy five (75) days from the last date of its submission and not to make any modifications in its terms and conditions. A sum of Rs..... has been deposited in cash / receipt treasury challan / deposit at call receipt of scheduled bank / fixed deposit receipt of scheduled bank / demand draft of a scheduled bank / Bank Guarantee issued by a Scheduled Bank as earnest money. If I / we, fail to furnish the prescribed performance guarantee within prescribed period, I / we agree that the said TIFR-Hyderabad, Hyderabad or its authorized officer shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I / we fail to commence work as specified, I / we agree that the TIFR-Hyderabad, Hyderabad shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by TIFR- Hyderabad, Hyderabad towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein.

Further, I / We agree that in case of forfeiture of earnest money or both Earnest Money & Performance Guarantee as aforesaid, I / We shall be debarred for participation in the re-tendering process of the work.

I / We hereby declare that I / We shall treat the tender documents, drawings and other records connected with the work as secret / confidential documents and shall not communicate information derived there-from to any person other than a person to whom I / We am / are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Seal & Signature of Contractor Postal Address

Dated

Witness Address Occ

ANNEXURE-III

(To be submitted on bidder / firm 's letter head)

CERTIFICATE OF LOCAL CONTENT

***We [name of manufacturer] hereby confirm in respect of quoted item(s) that local Content is equal to or more than 50% and come under 'Class-I Local Supplier' Category. As being 'Class-I Local Supplier', we are eligible for Purchase Preference under 'Make in India' Policy vide GOI Order No.P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019 and 04.06.2020)**

OR

***We [name of manufacturer] hereby confirm in respect of quoted items(s) that Local Content is more than 20% but less than 50% and come under 'Class-II Local Supplier' Category.**

The details of the location (s) at which the local value addition made is / are under:

1.
2.

**Date:
Bidder**

Seal & Signature of the

NOTE:

- **Self-certification that the item offered meets the minimum local content (as above) giving details of the location(s) at which the local value addition is made in case the bidder wishes to avail the benefits under the make in India policy, if applicable.**

- **In cases of procurement for a value in excess of Rs.10 crores, the local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content to avail the benefits under the make in India policy, if applicable.**

ANNEXURE-IV

Site Visit Declaration Certificate (To be submitted on bidder / firm 's letter head)

CERTIFICATE OF TENDERER'S VISIT TO SITE

1. This is to certify that I _____ (Name of bidder or his Representative) am from _____ (Name of Firm of tendering) visited the site at TIFR, Hyderabad in connection with the Tender for Construction of AHU Support Structure for Petawatt Building, TIFR, Survey No. 36/P, Gopanpally (Village), Serilingampally (Mandal), Ranga Reddy Dist., Hyderabad-500046, Telangana, India.
2. Having previously studied the contract documents, I carefully examined the site.
3. I have made myself familiar with all the local conditions likely to influence the works and the cost thereof.
4. I further certify that I am satisfied with the description of the work and the explanations given by the said Representative and that I understand perfectly the work to be done as specified and implied in the execution of the contract.

Signed by tendering firm representative and name:

Signed by tenderer and name:

Date:

ANNEXURE-V

(To be submitted on bidder / firm 's letter head)

FORM OF APPLICATION BY THE CONTRACTOR FOR SEEKING EXTENSION OF TIME

1. Name of contractor: _____

2. Name of work as given in the work order: _____

3. Work Order No. & Date: _____

4. Work Order Value: _____

5. Period allowed for completion of work as per the work order: _____

6. Date of commencement of work: _____

8. Period for which extension of time if has been given by authority previously:

S. No.	Letter No. and Date	Reasons for which extension have been previously given (copies of the previous applications should be attached)	Extension granted	
			Months	Days
(a) 1st extension				
(b) 2nd extension				
Total extension previously given				

10. Period for which extension is applied for at present : _____ and
Reason: _____

Submitted to the Authority with a copy to the Engineer-in-charge.

Signature of Contractor: _____

Dated: _____

ANNEXURE-VI

(To be submitted on bidder / firm 's letter head)

UNDERTAKING REGARDING BLACKLISTING / NON – DEBARMENT

To

The Head,
Department of Technical Services.
TATA INSTITUTE OF FUNDAMENTAL RESEARCH
Plot No.36/P, Gopanpally Village,
Serilingampally Mandal, Ranga
Reddy District. Hyderabad -
500046,
Telangana, India.

We hereby confirm and declare that we, M/s _____, is not blacklisted/ De-registered/ debarred by any Government department/ Public Sector Undertaking/ Private Sector/ or any other agency for which we have Executed/ Undertaken the works/Services during the last 5 years.

Authorised Signatory

Date:

ANNEXURE-VII

(To be submitted on bidder / firm 's letter head)

Audited Annual Turnover

S.No.	Financial/ Accounting Year	Profit (Rs.)	Loss (Rs.)	Annual Turnover (in INR)
1.				
2.				
3.				

**Authorized Signatory
with Seal**

Note:

(i) This Audited Annual Turnover for the last 3 years should be certified by Chartered Accountant (CA) as per the format given above duly signed and stamped by the CA on their letterhead.

(ii) The bidder should have an average annual financial turnover (gross) of Rs. 4.32 Lakhs during the immediate last three consecutive financial years ending March 31, 2025.

ANNEXURE-VIII**CLIENT's CERTIFICATE REG. PERFORMANCE OF CONTRACTOR****Date:****TO WHOM IT MAY CONCERN**

This is to certify that M/s. _____

has executed the following works at _____ (Name & address of the Client)

1	Name of work with brief particulars	
2	Work order No. and Date	
3	Work Order Value (Rs.)	
4	Date of Commencement of Work	
5	Stipulated Date of Completion of Work	
6	Actual Date of Completion of Work	
7	Details of compensation levied for delay (indicate amount), if any	
8	Name and address of the authority under whom works executed	
9	Amt. of work paid on reduced rates, if any.	
10	Did the contractor go for arbitration? (Yes/No) If yes, i) Total amount of claim iii) Total amount awarded	

11	Comments on the capabilities of the contractor:	
	a) Quality of Work	Outstanding / Very Good / Good / Satisfactory / Poor
	b) Financial Soundness	Outstanding / Very Good / Good / Satisfactory / Poor
	c) Technical Proficiency	Outstanding / Very Good / Good / Satisfactory / Poor
	d) Mobilization of adequate T&P	Outstanding / Very Good / Good / Satisfactory / Poor
	e) Mobilization of manpower	Outstanding / Very Good / Good / Satisfactory / Poor
	f) General behaviour	Outstanding / Very Good / Good / Satisfactory / Poor

“Countersigned”

**Signature of the
Reporting Officer
with Office Seal**

Note:

- i) All columns should be filled in properly.**
- ii) Signing Authority: Officer of the rank of Superintending Engineer or equivalent.**

ANNEXURE-IX

(To be submitted on bidder / firm 's letter head)

TECHNICAL DATA SHEET**1 :2TR 800CFM HI WALL FAN COIL UNIT:**

SL.NO	PARAMETER	DETAILS
1	GENERAL:	
1.1	Make	
1.2	Model	
1.3	Cooling Capacity (TR)	
1.4	Air Flow Rate (CFM)	
1.5	Coil Rows	
1.6	Inlet / Outlet Water Temperature	
1.7	Sound Level(DB)	
1.8	Filter Type	
1.9	Ball Valves 2No's	
1.10	Strainer-1No's	
1.11	2-Way Motorized Valve / Actuator-1No's	
1.12	Power Supply	
1.13	Thermostat Type	

2 :1.5TR 600CFM HI WALL FAN COIL UNIT:

SL.NO	PARAMETER	DETAILS
2	GENERAL:	
2.1	Make	
2.2	Model	
2.3	Cooling Capacity (TR)	
2.4	Air Flow Rate (CFM)	
2.5	Coil Rows	
2.6	Inlet / Outlet Water Temperature	
2.7	Sound Level(DB)	
2.8	Filter Type	
2.9	Ball Valves 2No's	
2.10	Strainer-1No's	
2.11	2-Way Motorized Valve / Actuator-1No's	
2.12	Power Supply	
2.13	Thermostat Type	

3 :3TR 1200CFM CEILING CONCEALED FAN COIL UNIT:

SL.NO	PARAMETER	DETAILS
3	GENERAL:	
3.1	Make	
3.2	Model	
3.3	Cooling Capacity (TR)	
3.4	Air Flow Rate (CFM)	
3.5	Coil Rows	
3.6	Inlet / Outlet Water Temperature	
3.7	Sound Level(DB)	
3.8	Filter Type	
3.9	Ball Valves 2No's	
3.10	Strainer-1No's	
3.11	2-Way Motorized Valve / Actuator-1No's	
3.12	Power Supply	
3.13	Thermostat Type	

ANNEXURE-X

(To be submitted on bidder / firm 's letter head)

List of Documents to be enclosed along with the bid submission:

Sr. No.	Documents	Attached (Yes / No)
1	Proof of Firm Registration	
2	GST & PAN of the Firm	
3	A valid Labour License	
4	Earnest Money Deposit (EMD)	
5	Solvency Certificate	
6	Annual Turnover during three previous financial years ending March 31, 2025 duly certified by the licensed Chartered Accountant. Refer ANNEXURE-VII	
7	Income Tax returns for the last three consecutive financial years ended on March 31, 2025 audited by the licensed Chartered Accountant.	
8	Profit/Loss statements for the last five consecutive financial years ending March 31, 2025 duly certified by the licensed Chartered Accountant.	
9	'Undertaking by the Tenderer as per the specified format in Annexure-II'	
10	'Site Visit Declaration Certificate' as per the specified format in Annexure-IV	
11	'Undertaking by the Tenderer' regarding Blacklisting / Non-Debarment as per the specified format in Annexure-VI	
12	'Local Content Certificate' by the Tenderer as per the specified format in Annexure-III	
13	Work Completion Certificates along with Work Orders and BOQs as specified the eligibility criteria. Refer Annexure-VIII: Work Completion Certificate	
14	Technical Data Sheet as specified in Annexure-IX	
15	Acceptance of Terms and Conditions of the tender by the tenderer by signing every page of the tender document with stamp.	

CHAPTER-VII**FINANCIAL BID (Part-II):****FINANCIAL BID (PART-II)**

Tender No. TIFR/PD/CA25-168/ 251565

Work: Supply, Installation, Testing and Commissioning of Chilled Water Units and its related works at TIFRH.

Location: TIFR, Survey No.36/P, Gopanpally (Village), Serilingampally (Mandal), Ranga Reddy Dist., Hyderabad – 500 046.

INSTRUCTIONS:

1. Tenderer needs to submit the signed copy of the Financial Bid quoting amount in the stipulated format and signed copies of the tender drawings.
2. Rates must be filled both in words and figures. The amount should be worked out for all the items.
3. The bidder shall quote his rates keeping in mind the specifications, terms & conditions, additional and special conditions etc. and nothing extra shall be payable unless otherwise specified.

(To be submitted on the bidder / firm 's letter head with ref. No. and date)

SCHEDULE OF QUANTITIES / BOQ

Work: Supply, Installation, Testing and Commissioning of Chilled Water Units and its related works at TIFRH.

Sr. No.	Description	Unit	Qty (A)	Rate(B)	Total Amount (C=A*B)
1	Supply, installation, testing and commissioning of 2TR Capacity 800CFM High wall Fan Coil Unit comprising of two 2 rows deep chilled water cooling coil, centrifugal blowers, fractional horsepower (FHP) motor, synthetic fibre filters, insulated & extended condensate drain pan, casing, coil piping connections(Ball valves-2No's,Strainers-1Nos',2way Actuator-1Nos), condensate drain piping connections & wiring. Fan coil units shall be suitable for operation on 220 +/- 6% Volts, 50Hz, single phase power supply of following sizes & capacities. Complete as per tender specification and as directed by Engineer-in-charge.	NO	5		
2	Supply, installation, testing and commissioning of 1.5TR Capacity 600CFM High wall Fan Coil Unit comprising of two 2 rows deep chilled water cooling coil, centrifugal blowers, fractional horsepower (FHP) motor, synthetic fibre filters, insulated & extended condensate drain pan, casing, coil piping connections(Ball valves-2No's,Strainers-1Nos',2way Actuator-1Nos), condensate drain piping connections & wiring. Fan coil units shall be suitable for operation on 220 +/- 6% Volts, 50Hz, single phase power supply of following sizes & capacities. Complete as per tender specification and as directed by Engineer-in-charge.	NO	10		

3	Supply, installation, testing and commissioning of 3TR capacity 1200 CFM Ceiling Concealed Fan Coil Unit comprising of 3 rows deep chilled water cooling coil, centrifugal blowers, fractional horse power (FHP) motor, synthetic fibre filters, insulated & extended condensate drain pan along with L-type auxillary tray, casing, coil piping connections(Ball valves-2No's,Strainers-1Nos',2way Actuator-1Nos), condensate drain piping connections & wiring. Fan coil units shall be suitable for operation on 220 +/- 6% Volts, 50Hz, single phase power supply of following sizes & capacities. Complete as per tender specification and as directed by Engineer-in-charge.	NO	2		
4	Supply,Laying,Testing and Commissioning of 80mm Diameter of chilled water piping with necessary clamps,M.S.Supports,vibration isolators and fittings but excluding valves,strainers,gauges etc.duly insulated with 32mm class O closed cell elastomeric nitrile rubber of minimum 45Kg/Cu.M density with suitable adhesive.	RMT	15		
5	Supply,Laying,Testing and Commissioning of 50mm Diameter of chilled water piping with necessary clamps,M.S.Supports,vibration isolators and fitting but excluding valves,strainers,gauges etc.)32mm duly insulated with class O closed cell elastomeric nitrile rubber of minimum 45Kg/Cu.M density with suitable adhesive.	RMT	140		
6	Supply,Laying,Testing and Commissioning of 40mm Diameter of chilled water piping with necessary clamps,M.S.Supports,vibration isolators and fitting but excluding valves,strainers,gauges etc.)32mm duly insulated with class O closed cell elastomeric nitrile rubber of minimum 45Kg/Cu.M density with suitable adhesive.	RMT	70		

7	Supply,Laying,Testing and Commissioning of 25mm Diameter of chilled water piping with necessary clamps,M.S.Supports,vibration isolators and fitting but excluding valves,strainers,gauges etc.)32mm duly insulated with class O closed cell elastomeric nitrile rubber of minimum 45Kg/Cu.M density with suitable adhesive.	RMT	50		
8	Supply, Installation, Testing and Commissioning of 80mm Dia Butterfly valve (Manual) with CI body SS Disc,Nitrile Rubber Seal & O-Ring with matching flanges, bolt & nuts, extended stem etc. Duly insulated to the same specifications as the connected piping. Pressure rating shall be PN 16.	NO	8		
9	Supply, Installation, Testing and Commissioning of 50mm Dia Butterfly valve (Manual) with CI body SS Disc,Nitrile Rubber Seal & O-Ring with matching flanges, bolt & nuts, extended stem etc. Duly insulated to the same specifications as the connected piping. Pressure rating shall be PN 16.	NO	6		
10	Supply, Installation, Testing and Commissioning of 40mm Dia Butterfly valve (Manual) with CI body SS Disc,Nitrile Rubber Seal & O-Ring with matching flanges, bolt & nuts, extended stem etc. Duly insulated to the same specifications as the connected piping. Pressure rating shall be PN 16.	NO	2		
11	Supplying, fixing, testing and commissioning of following sizes 80mm Diameter Motorized Butterfly Valves with CI Body, SS Disc, O-ring and minimum PN-16 pressure rating, conforming to BS 5155, IS 13095, with IP-55 actuator, capable of accepting upto 10V DC and upto 20mA electric signal and providing similar transduced feedback output to control system as required.Duly insulated to the same specifications as the connected piping. Pressure rating shall be PN 16.	NO	8		

Sub-Total (D)	
GST 18% (E)	
GRAND TOTAL (D+E)	

Note

1. TIFR Hyderabad has the right to delete any of the above items from scope of work or may increase/reduce quantities as per its requirement during execution of work. No claim or compensation for such deletion/increase/decrease will be accepted/paid to the contractor.
2. Payment will be made as per actual quantities executed at tender rates.
3. Unit rate must be quoted in figures as well as in words.
4. Rates are all inclusive of profit, Transport, Loading & Unloading, Shifting Taxes, Etc.
5. The site must be clean and remove all the debris after completion of work.
6. Manufacturer's warranty of respective supply items to be provided.
7. For any deviating items, the contractor shall take prior approval from TIFR Engineer-in with proper rate analysis.