

# 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.

टेलीफोन / Telephone: +91-40-2020-3009 ई-मेल / Email: krishnaae@tifrh.res.in

वेबसाइट / Website : <u>www.tifrh.res.in</u> तिथि / Date: 24.10.2025

# **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 Electrical works and related works for Labs at TIFR, Hyderabad					
निविदा सं. / Tender No.	TIFR/PD/CF25-112/251171				
प्रकाशन की तिथि / Date of Publishing	24.10.2025				
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.10,87,145/- (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	Rs. 21,743/- (डिमांड ड्राफ्ट "टाटा मूलभूत अनुसंधान संस्थान।" के पक्ष में तैयार किया जाना है, जो हैदराबाद में देय है (तकनीकी बोली भाग - I के साथ संलग्न किया जाना है)।" / Rs. 21,743/- (Demand Draft to be drawn in favor of "Tata Institute of Fundamental Research", Payable at Hyderabad.  (To be enclosed with the Technical Bid Part – I).				
बोली-पूर्व बैठक की तिथि और समय / Pre-Bid Conference: (a) Date & Time:					



	28.10.2025 at 12:00 Hrs.			
(b) Zoom Link (c) Venue:	For Pre-bid conference Zoom link, check TIFRH webpage-Tenders-"https://www.tifrh.res.in/tender/" Tender Ref No.TIFR/PD/CF25-112/251171			
	TIFR, Survey No. 36/P, Gopanpally (Village), Serilingampally (Mandal), Ranga Reddy Dist., Hyderabad-500046. Phone: 040-2020-3001			
निविदा प्रस्तुत करने की अंतिम तिथि । Last Date for Submission of Tender	31.10.2025 by 13:00 Hrs.			
बोली खोलने की तिथि (केवल भाग-I: तकनीकी बिड) / Date of Opening Bids (Only Part-I: Technical Bid)	31.10.2025 by 15:00 Hrs.			

# <u>टिप्पणी / NOTE:</u>

- प्रतिष्ठित अनुसंधान संस्थानों, विश्वविद्यालयों, केंद्र सरकार / सार्वजनिक क्षेत्र के उपक्रम, निजी प्रयोगशालाओं, बहुराष्ट्रीय कंपनियों आदि में समान कार्य अनुभव रखने वाले ठेकेदारों से उपर्युक्त कार्यों के लिए सीलबंद आइटम 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-।" और "भाग-॥" 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/क्रियर 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 पी. कुमार टेलीफोन: 7989227199, ई-मेल: pkumar@tifrh.res.in या श्री कृष्णा ए ई, टेलीफोन: 040-2020-3009, ई-मेल: krishnaae@tifrh.res.in से संपर्क करें I / Contact Mr. P. Kumar Contact No. 7989227199, Email id: pkumar@tifrh.res.in or 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 31.10.2025 को 13:00 बजे तक है। / Last date for submission of the tender is 31.10.2025 by 13:00 Hrs.

Technical Services Dept. टीआईएफआर, हैदराबाद / TIFR, Hyderabad.



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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: <a href="https://www.tifrh.res.in">https://www.tifrh.res.in</a>

- 2. <u>DEFINITION OF TERMS:</u> 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 <u>"Supply, Installation, Testing and Commissioning of Electrical works and related works for Labs"</u> 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: <u>12 months</u> 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 for clarification on the Tenders' technical specifications and commercial conditions, besides discussions on any additional suggestion proposed by the bidders on the time, date and venue (in-person) / zoom meeting (online) mentioned in the NIT above & TIFRH Tenders webpage. 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/CF25-112/251171, Description: "Supply, Installation, Testing and Commissioning of Electrical works and related works for Labs at TIFR, Hyderabad" and Due date: 31.10.2025, 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 (two 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** 

# TECHNICAL CUM ELIGIBILITY BID (Part-I): 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.

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# 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 "Tata Institute of Fundamental Research", 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 Agencies/Contractors shall hold a valid 'A' grade electrical contractor license issued by appropriate authority and must be valid throughout the contractual period
- **2.3.** The bidder should provide copy of the following original certificates:
  - PAN card from Income Tax Authority.
  - GST registration document.
- **2.4.** 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.
- **2.5.** Turnover: The bidder should have an average annual financial turnover (gross) of **Rs.3.26 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.

#### **2.6.** Experience:

- 2.6.1. 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.4.35 Lakhs, or
  - Two similar completed works each costing not less than Rs.6.52 Lakhs, or
  - One similar completed work costing not less than **Rs.8.70 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.
- 2.6.2. The bidder should furnish copies of work orders and completion certificates in support of the aforementioned works information. 'Annexure-VII' is enclosed with this tender document in 'Chapter-VI: Annexures' for reference.



# 2.6.3. Important Notes:

'Similar work' shall mean: "Supply, Installation, Testing and Commissioning of Electrical works and related works for Labs at TIFR, Hyderabad"

- a) '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.
- b) The bidder should have a full-fledged in-house project management team to undertake the jobs.
- c) Bidder's non-adherence to furnishing of information in the given format/schedule will lead to disqualification of the tender.
- **2.7.** The bidder should submit the Local Content Certificate as per Annexure-III enclosed with this tender document in 'Chapter-VI: Annexures'.
- **2.8.** 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-V' enclosed with this tender document in 'Chapter-VI: Annexures'.



(On bidder/firm's letterhead)

# <u>SCHEDULE – A</u> <u>PROFILE AND DETAILS OF THE BIDDER</u>

١.	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	:
<b>3</b> .	Experience as prime Agencies/ Contractors (in Yrs.)	:
7.	Name and address of Bankers	:
3.	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 <u>"Supply, Installation, Testing and Commissioning of Electrical works and related works for Labs at TIFR, Hyderabad"</u> Works (Copies of work orders and completion certificates are to be provided)

- Three similar completed works each costing not less than Rs.4.35 Lakhs, or
- Two similar completed works each costing not less than Rs.6.52 Lakhs, or
- One similar completed work costing not less than Rs.8.70 Lakhs.

Sr. No.	Name of work/ project and location	Descript ion 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 commen cement	te of oletion  Actual Date	Whether work was completed /uncompleted/ the contract was terminated from either side? Give Details.	Any other relevant information
1.									
2.									



(II) List of works / projects under execution above **Rs.4.35 Lakhs**.

Sr. No.	Name of work/ project and location	Descri ption 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 Experie nce	Nature of works handled	Name of the project Handled	Date of employment in your organization	Indicate specific experience in " <u>similar</u> <u>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

<u>2022-23</u> <u>2023-24</u> <u>2024-25</u>

1 Annual turnover : Rs.

2. Net Profit : Rs.

3. Credit Facilities from the Bank : Rs.

a) Cash Credit : Rs.

b) Overdraft Limit : Rs.

c) Guarantee : Rs.

d) Others : Rs.

4. Certificate from the : Enclosed (Yes / No)

Bankers regarding financial soundness of the applicant

5. Solvency Certificate from the : Enclosed (Yes / No)

Bankers

(Authorised Signatory)



(On bidder/firm's letterhead)

# SCHEDULE - E

# **MISCELLANEOUS INFORMATION**

- Whether it would be possible to process Bank Guarantee for various advances during execution of the work.
- Details of Civil Suits / Litigations arose during execution of the contracts in the last 5 years.
- 3 Latest Income Tax Clearance Certificate
- A 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 –IV) 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 1% of the contract value per week for delay in 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 Insurance Policy: 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/EAR insurance policy(Contractor's All Risk Policy or Erection All Risk 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 Two Running Account (RA) Bill/s 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

15.2. MEASUREMENT FORMAT

TIFR-, Hyderabad.

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 ALLIED TECHNICAL DETAILS

# **TECHNICAL SPECIFICATION**

# 5.1 Scope of Works

- 5.1.1 This specification is intended to cover the requirements of supply, installation, testing and commissioning of electrical wiring installation and other accessories required for its satisfactory operation. This covers the essential requirements or precautions regarding wiring installations for ensuring satisfactory and reliable service.
- 5.1.2 Supply, Installation, Testing and Commissioning of 1.1KV grade armoured / unarmoured XLPE/PVC LT cables in ground/wall/false ceiling to draw power from DBs to individual rooms, and circuits for power & lighting.
- 5.1.3 Supply, Installation, Testing and Commissioning of DB with Industrial Plug & Socket along with MCBs along with internal Wiring with suitable rating cables/wires as per the BOQ.
- 5.1.4 Supply, Installation, Testing and Commissioning of Emergency Stop Switch Push Button NC Element with box (RED colour, Press to Stop and Turn to Release type) and Transparent Box for closing and opening for operating the Push button & as per the instructions of E.I.C. .
- 5.1.5 Supply, Installation, Testing and Commissioning of IMPRESSION LIGHTS with Aluminium Profile Gery Body With Led Illuminate (Strip Light) Your Space with LED Profile Light Channels and Strips for Ceiling Corners and Suitable Drivers (Corner Profile 16mm) (Between Wall and Ceiling), as per site conditions and as per the instructions of E.I.C.
- 5.1.6 Earthing with Cu Earth Plate 600 x 600 x 3 mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meters long etc. with charcoal / coke and salt as required.
- 5.1.7 Supply, Laying & Termination of 25 x 5mm Cu Strip including all accessories like insulators, clamps, nut & Bolts etc..

**Other Works:** All other civil works which might not have been specifically mentioned in the specifications and in the Schedule of quantities but are essential for operational requirements of the entire system shall be in the scope of work. Bidder shall specifically bring out such items in Technical bid and submit quote in separate sheet along with the Financial Bid.

#### Standards:

The Electrical wiring installations and other accessories shall comply with latest IS: 732 - 1989 and National Electrical code – 1985 and to the latest amendments from time to time.

# **EARTHING & LIGHTNING PROTECTION**

IS: 3043 – 1987 Code of practice for earthing.

\_\_\_\_\_



IS: 2309 – 1989 Code of practice for Protection of buildings and allied structures against lightning.

#### **LOW VOLTAGE SWITCHGEAR & PANELS**

IS: 8623 – 1993 Specification for low voltage switchgear and control gear assemblies

IS: 10118-1982 Code of practices for selection, installation and maintenance of switchgear and control gear.

IS: 12063-1987 Classification of degrees of protection provided by enclosures of electrical equipment.

IS:7752-1975 Guide for improvement of power factor in consumer installation

IS: 12360-1988 Voltage bands for electrical installations including preferred voltages and frequency.

IS: 2147 – 1962 Degrees of Protection provided by enclosures for low voltage switchgear and control gear.

IS: 3070-1993 Metal oxide surge arresters with gaps for AC system.

IS:13947-1993 L.V. Switchgears and control gears

IS:13032-1991 Miniature circuit breaker boards for voltage up to and including 1000 volts A.C.

IS:13925-1998 Shunt capacitors for ac power systems having a rated voltage above 1000V.

IS:12729-2004 Common specification for high voltage switchgear & controlgear standards.

IS:1293-2005 Plug & socket outlets for household & similar purposes.

IS:4160-2005 Interlocking switch socket outlets –specification

IS:60309-2002 Plug socket –outlets & couplers industrial purposes.

#### **CABLE**

IS:12943-1990 Brass glands for PVC cables.

IS:1255-1983 Code practice for installation and maintenance of power cables Up to and including 33kV rating.

IS:10418-1982 Drums for electric cables.

IS:7098-1988 Cross linked polyethylene insulated PVC sheathed cables.

IS:1554-1988 PVC insulated (heavy duty) electric cables.

IS:694-1990 PVC insulated (heavy duty) electric cables

#### **INTERNAL (POINT WIRING, FAN, FIXTURES)**

IS: 4648 – 1968 Guide for electrical layout in Residential buildings.

IS: 732 - 1989 Code of practice for electrical wiring installations.

IS:6665-1972 Code of practice for industrial lighting

IS: 2268 – 1994 Electrical appliances electrical call bells and buzzers for indoor use.

IS: 3646-1992 Code of Practice for interior illumination

IS:11037-1984 Electronic type fan regulators.

IS:9537-1980 Conduits for electrical installation

IS:14768-2000 Conduits fittings for electrical installations general requirements.

IS: 14927-2001 Cable trunking & ducting systems for electrical installations

IS: 1913 - 1978 General and safety requirement for luminaries

IS:3528-1966 Waterproof electric lighting fitting

IS:1944-1970 Code of practice for lighting of public thoroughfare



#### **OTHER CODES**

SP30-1985 National Electrical code (Fourth Reprint 1998) NBC-2008 National Building Code First Reprint 2006 ECBC 2009 Energy Conservation Building Code

#### **GENERAL**

SP: 31-1986 Chart and treatment for electrical wiring installations.

IS: 2551 – 1982 Danger notice plates.

IS: 5216 - 1982 Guide for safety procedures and practices in Electrical work

#### Lamps:

All Light Fixures, unless otherwise specified shall be hung at a height of not less than 2.5 m above the finished floor level.

# Recessed PVC conduit wiring system

- a) Making of chase: The chase in the wall shall neatly be made and shall be of suitable dimension to permit the conduit to be fixed in the manner desired by the Engineer-in- charge. In the case of buildings under construction, chases shall be provided in the wall, ceiling, etc. at the time of their construction and shall be filled up neatly after erection of conduit and brought to the original finish of the wall.
- b) Fixing of conduit in chase: The conduit shall be fixed by means of staples or by means of saddles not more than 600 mm apart. Fixing of standard bends or elbows shall be avoided as far as practicable and all curves maintained by bending the conduit pipe itself with a long radius which will permit easy drawing-in of conductors. All the threaded joints of rigid steel conduits shall be treated with approved preservative compound to ensure protection against rust.
- c) Inspection boxes: To permit periodical inspection and to facilitate replacement of wires, suitable inspection boxes shall be provided at convenient locations. They shall be mounted in flush with the wall. The minimum size of inspection boxes shall be  $75 \times 75 \, \text{mm}$ . Suitable ventilating holes shall be provided in the inspection box covers.
- d) Types of accessories to be used: All outlets, such as switches and sockets, may be either of flush mounting type or of surface mounting type. The switches and other outlets shall be mounted on such boxes. The metal box shall be efficiently earthed with the earth continuity wire run along the conduit. When crossing through expansion joints in buildings, the conduit sections across the joint may be through flexible copper bellows of the same 33 size as PVC conduit. The Number of wires that can be drawn through a conduit shall be strictly as per IS 732 and as mentioned in Drawings.

#### **TESTING OF WIRING:**

The following tests shall be carried out on all types of wiring on completion of the work and before energizing the installation:



- i) Insulation resistance test,
- ii) Electrical continuity test,
- iii) Earth continuity test,
- iv) Earth electrode resistance test,
- v) Switch polarity test.
- i) Insulation Resistance test: The insulation resistance shall be measured by using 500 v megger between the following points. Phase and neutral conductor with all fuses in position and all switches in closed condition and main switch in OFF position with lamps and other devices removed. Between earth and whole system of conductors with all fuses in place, all switches closed and all lamps in position. Between all conductors connected to one phase of the supply of the above tests shall not be less than 50 divided by the number of points on the circuit. Where a whole installation is being tested, a lower value than that given by the above formula is acceptable subject to a minimum of one mega ohm.

The insulation resistance in mega ohm as obtained by each of the above tests shall not be less than 50 divided by the number of points on the circuit. Where a whole installation is being tested, a lower value than that given by the above formula is acceptable subject to a minimum of one mega ohm.

- (ii) Electrical continuity test: Each and every circuit shall be tested for electrical continuity by using a multimeter.
- (iii) Earth continuity test: The earth continuity conductor including metal conduit shall be tested for electrical continuity and the resistance of the same along with the earthing lead measured from the connection with the earth electrode to any point in the earth continuity conductor in the complete installation shall not exceed one ohm.
- iv) Earth electrode resistance test: The earth electrode resistance shall be tested as specified in section
- (v). Switch polarity test: Test shall be made to verify that all switches in every circuit have been fitted in the same conductor throughout and such conductor shall be marked for connection to the phase conductor.

# **Distribution Boards:**

All the distribution boards shall be with MCCBs/ MCBs as described in the respective schedule. The distribution boards shall be controlled by a switch fuse, miniature circuit breaker or an isolator as described in the respective schedule. Each outgoing circuit shall be provided either with MCB or a fuse on the phase. The neutral shall be connected to a common link and be capable of being disconnected individually for testing purposes. 34 The distribution boards shall be located as indicated in the respective electrical working drawings and as directed by Engineer - in - charge. The distribution boards shall be fixed on wall in the niche provided and marked with the details of circuits, source of supply, size of incoming wires Etc., All marking shall be clear and legible. The total load of the consuming devices shall be evenly distributed between the numbers of ways of distribution board. The consuming devices circuit shall be connected to distribution board in proper sequence, so as to avoid unnecessary crossing of wires. Cables shall be connected to a terminal only by crimped lugs. Cables shall be rigidly fixed in such a manner that a clearance of at least 2.5cm is maintained between conductors of



opposite polarity or phase and between the conductors and any material other than insulating material. The incoming and outgoing cables shall be neatly bunched.

**MOUNTING HEIGHTS:** The Mounting heights of various fixtures shall be as specified in the Drawings. 10.Flexible conduits are strictly not envisaged, only industrial type GI Bind flexible conduit shall be used in a spot where the conduits and bends cannot be possible to run.

#### L. T. CABLES:

All power and distribution cables shall be 1100V grade, PVC / XLPE insulated and sheathed, armoured/unarmoured, multi strand aluminum conductor/ copper conductor cables unless otherwise specified. All control cables shall be 1100V grade PVC insulated and sheathed unarmoured multi-strand copper conductor cables unless otherwise specified. The cables shall conform to IS 1554-1988 & IS 7098:1988 with up to date amendments. Type test certificates of the cables from manufacturers for the particular drums shall be provided. Shop inspection shall be offered for routine tests if specifically asked for.

#### LAYING:

- The cables shall be thoroughly inspected for transit damage and irregularity in sheath etc.
- Sufficient manpower with necessary equipment like jacks, rollers shall be provided for
- unwinding and laying the cables and dragging and twisting shall be avoided. Proper
- unwinding methods shall be used to avoid twists & cable should be meggered before starting laying.
- Cables shall be laid at a depth of at least 750mm from ground level with 50mm sand bedding, brick box with cushion for protection. Bending radius provision of at least 12 D shall be kept while laying. The trenches shall be filled and reinstated layer by layer leaving a crown on top.
- H.T. and L.T. cables shall not be laid in the same trench. When more than one cable is laid in the same trench a gap of at least 150 mm shall be kept between the cables.
- Cables laid on walls; trenches shall be supported at every 600mm for vertical run and every 450mm for horizontal run. Suitable clamps shall be provided for fixing and support.
   Vertical runs near ground level shall be protected by GI Pipes of suitable size up to the height of at least 1200 mm.
- The length of the cables in schedule will be approximate and actual site measurements shall be taken by contractor prior to cutting any cable.
- Cable identification tags shall be provided at appropriate locations throughout the length of cables and at both ends.

#### **JOINTING:**

Jointing or end termination of cables shall be done by a skilled person only. Straight through joints shall be avoided as far as possible. Heavy-duty compression type brass glands shall be used for all connections. Crimping type lugs with suitable brass/Chrome Plated hardware shall be provided for connections.

The cables on panel side are connected to bus bars Cu or Al, Care should be taken to avoid heating & corrosion at the joints. All LT cable joints in outdoor and humid atmospheres shall be



done with double compression glands only / if done by Single compression Gland should be accommodated by PVC HOOD Of Appropriate size.

#### **TESTING:**

Cables shall be meggered as soon as they are brought to site. Insulation resistance shall also be tested.

- a) After cutting.
- b) After laying and preparing the joint.

Following test shall be taken after completing the installation.

- a) Cable continuity.
- b) Earth continuity.
- c) Insulation resistance.

1000V megger shall be used for testing 3 phase 415 Volt systems. All HT cables shall be pressure tested after making the end joints at site. Insulation resistance tests shall be done by 5000V megger for all H.T. Cables.

#### SURFACE CONDUITING:

The surface conduits shall be fixed with help of 20 SWG saddles on spacers at every 600mm for vertical run and every 450 mm for horizontal run. The runs shall be straight with pull boxes and inspection type bends as required. Contractors are required to provide suitable sleeves for structural member crossing at the time of casting. No elbows shall be allowed.

In case of false ceilings the conduits shall run on walls/trusses/slabs above false ceiling level as far as possible. The connections between such runs and fixtures shall be made with flexible conduits.

# **CONCEALED CONDUITING:**

The concealed conduit work shall be carried out along with construction of walls prior to plaster. The work covers chasing walls with wall cutters only if necessary fixing the conduits, boxes, and accessories, redoing the damaged surface using chicken mesh. All horizontal conduit runs shall be straight at wall point light level to necessary junction/pull boxes and then straight vertical drop to switch box if necessary.

The conduits shall be laid such that they are little below the brick level to avoid cracks. Elbow shall not be used and bends shall be avoided as far as possible using offsets. Pull boxes shall be provided at suitable locations. All necessary sleeves shall be provided in beams, columns, and prior to casting. Deep junction boxes only shall be used in slabs.

The pull and junction boxes shall not be clustered at one place and shall be so arranged that they should not be easily seen from heavy movement areas. All cases shall be taken to secure joints and boxes in place. All vertical runs shall be sealed at top, while masonry civil works are going on. Conduit with 25mm dia. minimum shall be used for all concealed work. Generally in areas with false ceiling conduits will not be concealed in slab but will be concealed below the



false ceiling area. Conduits above false ceiling in such cases shall run with proper supports / suspenders. Conduits shall not be rested on a false ceiling grid in any case. Flexible conduits shall not be used in concealed work.

#### Site/Climate Conditions:

The Equipment shall be suitable for installation and satisfactory continuous operation in a sub-station in a generally hot and humid atmosphere. The equipment shall be designed to operate continuous under site condition as specified below.

Location : Hyderabad

Max. ambient air temperature, : 50 °C

Min. ambient air temperature, : 10 °C

Max. average daily ambient air temp., : 40 °C

Max. yearly weighed average ambient temp, : 32 °C

Max. relative humidity, % : 95%

Average Annual rainfall, mm : 800 mm

Max. altitude above mean sea level (Meters) : 540 m

#### Completeness of work:

Contractor shall include and provide all necessary materials and labour for completing the job in approved manner following all applicable standards and code of practices.



**LIST OF APPROVED MAKES** 

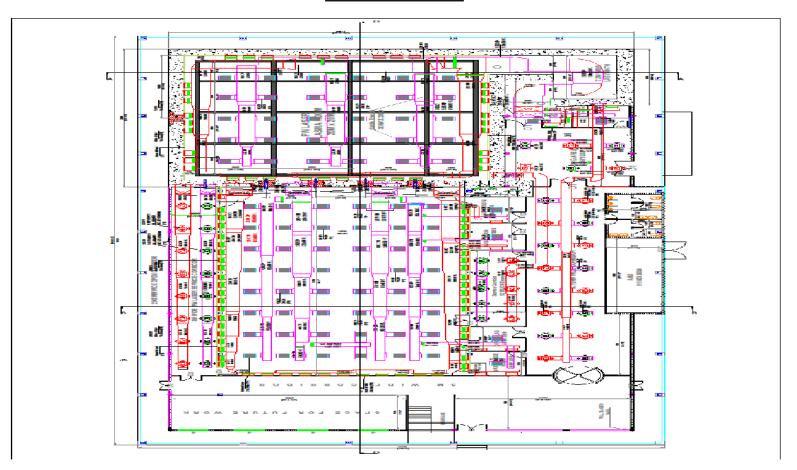
S.No	Item Description	Approved Makes
1	LT Cables	Poly Cab/ Havells/KEI/ Equivalent Approved
2	Brass Cable Gland	Dowells/Crompton/Bico/Siemens/Commet/ Equivalent Approved
3	PVC Glands	Peeco,/ Commet,/ Dowells's/ Equivalent Approved
4	Cu Lugs	Peeco/, Commet, /Dowells's/ Equivalent Approved
5	Distribution Boards	Legrand/Schneider/Hager/ Equivalent Approved
6	MS Enclosure	Legrand/Schneider/Hager/ Equivalent Approved
7	МСВ	Legrand/Schneider/Hager/ Equivalent Approved
8	МССВ	Legrand/Schneider/Hager/Equivalent Approved
9	Cu strip	99% Electrolyte Copper
10	LED lights	Phillips/Havells/Wipro/ Equivalent Approved
11	PVC Conduits	Sudhakar/Equivalent Approved
12	Energy Meter	Schneider/Equivalent Approved
13	DLP Truncking	Legrand/MK/ Equivalent Approved
14	DB with Industrial Plug & Sockets	Legrand/Schneider/Equivalent Approved
15	All other items not covered above	AS PER SAMPLES APPROVED

Contractor Signature



# CHAPTER-V DRAWINGS

## LAYOUT DRAWING





CHAPTER-VI ANNEXURES

**ANNEXURE-I** 

### FORM OF PERFORMANCE GUARANTEE (BY BANK GUARANTEE)

	ieration of t	-	-		-	naer the term	s and conditio	ns of Lette	r of intent
/ Agreement		No	date	ed	made				
between and				(Here in afte	r			"	
the said		Contractor{s			the				
	(Here in	after called "th	he said Le	tter of Intent /	Agreemer	nt") having ag	reed to produc	ction of a in	rrevocable
bank Guarante									e from the
contractor(s) for	or complian	ice of his ob	ligations	in		accordance	with	the	terms
and conditions		the		said ag	reement,	we			(Indicate
the name of the		einafter referre	ed to as "tl	he Bank") Her	ebv under	take to	pav	to	TIFR an
amount not							lemand by TIF		
							pay the amou		nd navable
under this gua									
meet the recov									
conclusive as									
guarantee shal	be restrict	ed to an amou	nt not exc	eeding Rs		. (Rupees			
only).									
3. We, t	he said bar	ık, further und	dertake to	pay to TIFR	any mone	y so demand	ed notwithstar	nding any	dispute or
disputes raised	by the Cor	ntractor(s) in a	any suit oi	r proceeding	pending be	efore any Co	urt or Tribunal	relating th	nereto, our
liability under	this present	t being absolu	ute and u	neguivocal. T	he paymei	nt made by u	s under this b	ond shall	be a valid
discharge of o									
payment.		,							9
	eato the nan	o of Rank) fur	ther seree	that the guar	antoo horo	in contained	shall remain in		
,		,	•	•					ant it aball
full force and									
continue to be									
claims satisfied									
the said Agree		ວeen fully an	ıd properl	ly carried ou	it by the	said Contra	ctor(s) and acc	cordingly o	lischarges
this guarantee.									
5. We (in	dicate the r	name of Bank)	further	agree with T	IFR that T	TFR shall ha	ve the fullest	liberty w	ithout our
consent and w	ithout affec	ting in any ma	anner our	obligations he	ereunder t	o vary any of	the terms an	d conditi	ons of the
said Agreemen	t or to exter	d time of perfe	ormance b	y the said Co	ntractor(s)	from time to	time or to post	tpone for a	ny time or
from time to tir	ne any of th	e powers exer	rcisable by	TIFR against	the said C	ontractor(s)	and to forbear	or enforce	any of the
terms and cond									
variation, or ex									
or any indulge									
relating to sure								o aa.	
•	•	•			•		Bank or the Co	ontractoric	٠١
•		•	•	•				•	•
•		•	name of E	sank) iastiy un	idertake no	ot to revoke tr	nis guarantee e	except with	tne
previous conse		•							
8. This	guarantee	shall be valid	up to		,	unless exter	nded on dema	nd. Notwit	hstanding
anything mer	ntioned ab	ove, our	liabili	ty agains	t this	guarante	e is re	estricted	
(Rupees						only)	and unless	a claim in	writing is
lodged with us									
under this guar				. ,			<b>.</b>	,	
		•	•						
Signed and see	lod								
Signed and sea									
Dated the							of Bank) *(No	te: The	Letter of
Intent	snall	form part	Of	tne	Agreeme	ent)			

Contractor Signature



#### **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.

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 Gol 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:	Seal & Signature of the Bidder
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

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

### FORM OF APPLICATION BY THE CONTRACTOR FOR SEEKING EXTENSION OF TIME

2. Name of work as given in the work order:  3. Work Order No. & Date:	3. Work Order No. & 4. Work Order Value: 5. Period allowed for 6. Date of commence 7. Period for which ex S. No.	Date: completion of work as ment of work: xtension of time if has	Reasons for which extension have been previously given (copies of the previous applications should be	ously: Extension	n granted
4. Work Order Value:	4. Work Order Value: 5. Period allowed for 6. Date of commence 7. Period for which ex 6. No.  Le a) 1st extension	completion of work as ment of work:	Reasons for which extension have been previously given (copies of the previous applications should be	ously: Extension	n granted
5. Period allowed for completion of work as per the work order:	5. Period allowed for 6. Date of commence 7. Period for which ex 6. No.	completion of work as ment of work:  xtension of time if has	Reasons for which extension have been previously given (copies of the previous applications should be	ously: Extension	n granted
6. Date of commencement of work:	6. Date of commence 7. Period for which ex 6. No.  Le a) 1st extension	ment of work:	Reasons for which extension have been previously given (copies of the previous applications should be	ously: Extension	n granted
7. 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)  Months  Days  1 st extension  Days  Total extension  S. Period for which extension is applied for at present:  Submitted to the Authority with a copy to the Engineer-in-charge.	7. Period for which ex	xtension of time if has	Reasons for which extension have been previously given (copies of the previous applications should be	ously: Extension	n granted
S. No.  Letter No. and Date  Reasons for which extension granted  Previously given (copies of the previous applications should be attached)  Months  Days  Alternation  By 2nd extension  Fotal extension previously given  S. Period for which extension is applied for at present:  Reason:  Submitted to the Authority with a copy to the Engineer-in-charge.	a) 1st extension		Reasons for which extension have been previously given (copies of the previous applications should be	Extension	
extension have been previously given (copies of the previous applications should be attached)  a) 1st extension b) 2nd extension  Fotal extension or eviously given  8. Period for which extension is applied for at present: ar Reason: ar Submitted to the Authority with a copy to the Engineer-in-charge.	a) 1st extension	etter No. and Date	extension have been previously given (copies of the previous applications should be		
previously given (copies of the previous applications should be attached)  a) 1st extension  b) 2nd extension  Fotal extension or eviously given  8. Period for which extension is applied for at present: ar Reason: ar Submitted to the Authority with a copy to the Engineer-in-charge.			previously given (copies of the previous applications should be	Months	Days
(b) 2nd extension  Total extension previously given  8. Period for which extension is applied for at present :					_
8. Period for which extension is applied for at present : ar Reason: ar Submitted to the Authority with a copy to the Engineer-in-charge.	b) 2nd extension				
8. Period for which extension is applied for at present : ar Reason: ar Submitted to the Authority with a copy to the Engineer-in-charge.					
8. Period for which extension is applied for at present : ar Reason: ar Submitted to the Authority with a copy to the Engineer-in-charge.					
Reason:  Submitted to the Authority with a copy to the Engineer-in-charge.					
		= =			and
Signature of Contractor:	Submitted to the Autl	hority with a copy to t	he Engineer-in-charge.		
Signature of Contractor:					
	Signature of Contract	tor:			
Dated:	Dated:				
	Reason:	hority with a copy to t			



## **ANNEXURE-V**

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

### **UNDERTAKING REGARDING BLACKLISTING / NON – DEBARMENT**

То

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 blacklisted/ De-registered/ debarred by any Government department/ Public Se Undertaking/ Private Sector/ or any other agency for which we have Execu Undertaken the works/Services during the last 5 years.	
Authorised Signatory	

Contractor Signature

Date:



**ANNEXURE-VI** 

(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.3.26 Lakhs during the immediate last three consecutive financial years ending March 31, 2025.



### **ANNEXURE-VII**

### CLIENT'S CERTIFICATE REG. PERFORMANCE OF CONTRACTOR

Date:

## TO WHOM IT MAY CONCERN

This is to	certify that M/s.	
has exec	uted 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

"Coun	ters	igne	ed"
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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-VIII**

(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	Valid 'A' grade electrical contractor license issued by appropriate authority	
6	Annual Turnover during three previous financial years ending March 31, 2025 duly certified by the licensed Chartered Accountant. (as per ANNEXURE-VI)	
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 Account.	
9	'Undertaking by the Tenderer as per the specified format in Annexure-II	
10	'Undertaking by the Tenderer' regarding Blacklisting / Non-Debarment as per the specified format in Annexure-V	
11	'Local Content Certificate' by the Tenderer as per the specified format in Annexure-III	
12	Work Completion Certificates along with Work Orders and BOQs as specified the eligibility criteria. Annexure-VII: Work Completion Certificate format is enclosed for reference.	
13	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/CF25-112/251171

Work: <u>Supply, Installation, Testing and Commissioning of Electrical</u> works and related works for Labs at TIFR, Hyderabad.

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

#### **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 bidder / firm's letter head with ref. No. and date)

## **SCHEDULE OF QUANTITIES / BOQ**

Work: Supply, Installation, Testing and Commissioning of Electrical works and related works for Labs at TIFR, Hyderabad.

S. No.	Description	Unit	Qty(A)	Rate(B)	Total Amount(C=A*B)
1	Supply, laying, termination, testing & commissioning of 1100V, 4C X 70 sq.mm FR PVC insulated copper conductor flexible cable as per IS 694 with latest amendments & as per technical specifications & as per the instructions of E.I.C. Cable shall be laid on the wall/ceiling and rates are all inclusive of accessories like clamps. screws, saddles, etc. required to lay on wall/ceiling. Make: Polycab /Havells/ Finolex/KEI/Equivalent approved	MTR	50		
2	Supply, Installation of suitable single compression PVC Gland, Copper Lugs and accessories for termination of cable mentioned in Sr. No.1 in the Distribution Board, Power Contactors and MS enclosure	SET	8		
3	Supply, laying, termination, testing & commissioning of 1100V, 1C X 70 sq.mm FR PVC insulated copper conductor flexible cable (Green) as per IS 694 with latest amendments & as per technical specifications & as per the instructions of E.I.C. Cable shall be laid on the wall/ ceiling and rates are all inclusive of accessories like clamps. screws, saddles, etc. required	MTR	200		



	to lay on wall/ceiling. Make: Polycab /Havells/ Finolex/KEI/ Equivalent approved			
4	Supply, laying, termination, testing & commissioning of 1100V, 4C X 35 sq.mm FR PVC insulated copper conductor flexible cable as per IS 694 with latest amendments & as per technical specifications & as per the instructions of E.I.C. Cable shall be laid on the wall/ceiling and rates are all inclusive of accessories like clamps. screws, saddles, etc. required to lay on wall/ceiling.  Make: Polycab /Havells/ Finolex/KEI/ Equivalent approved	MTR	20	
5	Supply, Installation of suitable single compression PVC Gland, Copper Lugs and accessories for termination of cable mentioned in Sr. No.4 in the Distribution Board, Power Contactors and MS enclosure	SET	8	
6	Supply, laying, termination, testing & commissioning of 1100V, 3C X 1.5 sq.mm FR PVC insulated copper conductor flexible cable as per IS 694 with latest amendments & as per technical specifications & as per the instructions of E.I.C. Cable shall be laid on the wall/ceiling and rates are all inclusive of accessories like clamps. screws, saddles, etc. required to lay on wall/ceiling.	MTR	300	



	Make: Polycab /Havells/ Finolex/KEI/ Equivalent approved			
7	Supply, Installation, Testing and Commissioning of Emergency Stop Switch Push Button NC Element with box (RED colour, Press to Stop and Turn to Release type) and Transparent Box for closing and opening for operating the Push button & as per the instructions of E.I.C. Make: Any Reputed Brand	SET	10	
8	Supply, Installation, Testing and Commissioning of IMPRESSION LIGHTS with Aluminium Profile Gery Body With Led Illuminate (Strip Light) Your Space with LED Profile Light Channels and Strips for Ceiling Corners and Suitable Drivers (Corner Profile 16mm) (Between Wall and Ceiling), as per site conditions and as per the instructions of E.I.C. Make: Wipro/Philips/Havells/Equivalent approved	MTR	50	
9	Excavation for cable trenches in soft soil, depth up to 3.0 m including dressing of sides lift up to 3.0 m, including getting out the excavated soil, refilling with sand and or good soil after laying of cable/ pipe etc. in layers of 20 cm, ramming, watering and disposal of surplus excavated soil as directed, within a lead of 50 meters.	CUM	50	
10	Earthing with Cu Earth Plate 600 x 600 x 3 mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and	SET	12	



	watering pipe of 2.7 meters long etc. with charcoal / coke and salt as required									
11	Supply, Laying & Termination of 25 x 5mm Cu Strip including all accessories like insulators, clamps, nut & Bolts etc.	MTR	150							
Total Amount in Words Rs.										
						Only				

#### 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-Charge with proper rate analysis.