



Government of India  
BHABHA ATOMIC RESEARCH CENTRE  
Mysore  
DC&I-O&M Division

PB No-1,  
Yelwal PO  
Mysore - 571130

**NOTICE INVITING e-TENDER**

TENDER NOTICE No.: BARC/DC&I/ARS/2018-19/1

dated: 2/1/2019

**NIT Details**

1. On line item rate tender in Single Part i.e. Techno-Commercial cum Financial Bid are hereby invited through **e-Tendering mode** on behalf of the President of India by Superintending Engineer, Bhabha Atomic Research Centre, Mysore for the following work from eligible contractors for those having adequate experience and capabilities to execute similar works of such magnitude as detailed in this tender.

i)	Name of Work	Instrumentation, Electrical & Electronics (IEE) related works.
ii)	Estimated Cost	Rs 30,00,000
iii)	Earnest Money	Rs 60,000

**Note:** Earnest Money Deposit in the form of Account Payee Demand Draft/ Deposit at Call receipt/Fixed deposit receipt on any Scheduled/nationalized bank guaranteed by Reserve Bank of India payable at Mysore in favour of Pay and Accounts Officer, BARC, Mysore shall be submitted with tender in separate sealed cover. A part of EMD is acceptable in the form of BG also. In such case minimum 50% of the EMD or Rs. 20 Lakhs whichever is less shall be in the form prescribed above and balance can be accepted in the form of BG issued by a scheduled Bank as per enclosed form. Tenders received without EMD will be summarily rejected. Compulsory EMD exempted under NSIC is not considered.

- iv) Cost of Tender Document : NIL
- v) Tender Processing Fee : 1770/- e-payment through electronic mode (Non-returnable) in favour of 'M/s ITI Limited, New Delhi'
- vi) Period of completion : **24** calendar months including monsoon period.
- vii) Dates for Request for purchase / Download of Tender Document (excel / word formats) : From **16.1.2019(11:00 Hrs.) to 27.01.2019(15:00 Hrs.)** on website [www.tenderwizard.com/DAE](http://www.tenderwizard.com/DAE). Detailed NIT is also available on website [www.barc.gov.in](http://www.barc.gov.in) for view only.
- viii) Last date and time of closing of online submission of tenders : **11.02.2019(15:00 Hrs.)**
- ix) Last date for submission of original documents towards Receipt of e-payment towards Tender Processing Fee and EMD : **On or before 20/02/2019(15:00 Hrs.)** at Superintending Engineer's office in a **sealed** super scribed envelope mentioning name of work and NIT Number. Original documents should be submitted preferably in person along with EMD. However documents sent by post or courier will also be considered provided the same is received within due date & time.

- x) Date and time of online opening : 27.02.2019 (15:00 Hrs.)  
of Techno-Commercial cum  
Financial Bid

**Information, Eligibility Criteria, Evaluation Criteria ,Conditions and Instructions**

**Information:**

2. Tender document is prepared as stated below

**The Tender Document for the above work comprises of:**

- Section – I – Notice Inviting Tender
- Section – II – Form of Agreement of General Rules
- Section – III – General Conditions of Contract etc
- Section – IV – Schedule of quantities

Prospective Bidders or general public can see and download free of cost **PDF format** of the above documents from website [www.tenderwizard.com/DAE](http://www.tenderwizard.com/DAE) **TENDERS OF DAE Bhabha Atomic Research Centre-Mysore-O&M-DC&I**

To participate in the tender, Prospective Bidders are required to download all the **Word and PDF format** containing Section -1 Notice Inviting Tender, Section-2 Form of Agreement of General Rules, Section-3 General Conditions of Contract etc and Section-4 Schedule of quantities following after Login in the Home page of the website [www.tenderwizard.com/DAE](http://www.tenderwizard.com/DAE) with their **User ID / Password & Class III Digital Signature Certificate**.

**Prospective bidders are also required to Down Load the excel format** Financial Bid containing Schedule B after Login in the Home page of the website [www.tenderwizard.com/DAE](http://www.tenderwizard.com/DAE) with their **User ID / Password & Class III Digital Signature Certificate** and after payment of tender processing fee.

**Steps to download EXCEL / PDF documents are following:**

- i. Click on “**UNAPPLIED**” button;
- ii. Click on “**REQUEST**” icon (blue colour),
- iii. Pay **TENDER PROCESSING FEE** online.
- iv. Click on “**SUBMIT**” button.
- v. Click on “**IN PROGRESS**” button.
- vi. In status column bidder will find the tender is **RECEIVED**.
- vii. Bidder will be able to download required Tender Documents by clicking “**EDIT ATTACHMENT**” icon for any number of times till last date of submission

**Prospective bidders have to fill all the documents and upload the same without renaming it and fill up and upload the scanned copies of documents in PDF format. Letter of Transmittal is to be copied on bidders letter head and scanned copy has to be uploaded.**

The bidders have to also upload an affidavit in the following format in ` 100/- Stamp paper attested by a Public Notary.

**“I/ We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in BARC Contracts in future forever. Also, if such a violation comes to the notice of Department before date of**

start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/ Performance Guarantee.”

Please refer Help Manual for submission of Tender / contact Help Desk as per NIT. Tender Document are available on website [www.tenderwizard.com/DAE-Downloads - BARC DOCUMENTS](http://www.tenderwizard.com/DAE-Downloads-BARC-DOCUMENTS).

All the above documents will form part of Agreement after award of work to the successful bidder.

**Initial Eligibility Criteria:**

3. The bidder should have the following :

- (a) Registration in Appropriate Class of Contractors, if any
- (b) Bank Solvency Certificate of a Nationalized Bank / Scheduled Bank for a minimum of (40%) 12 **lakhs** and should not be older than one year from the date of opening of tender.
- (c) Average Annual Financial Turnover on similar works should be at least **30 lakhs**, during the immediate last 3 consecutive financial years ending **31st March 2018**. This should be duly audited by a registered Chartered Accountant.
- (d) Should not have incurred any loss in more than two years during last five years ending **31st March 2018**.
- (e) Performance Certificates
- (f) Required Technical Staff
- (g) Permanent Account number (PAN)

The bidder should have satisfactorily completed (based on certification of performance by client of the works) 3 (Three) similar works each of value not less than **Rs 12 lakhs** or 2 (Two) similar works each of value not less than **Rs 18 lakhs** or 1 (One) similar work of value at least **Rs 24 lakhs** during the last 7 (Seven) years ending on the last day of the month previous to the one in which the tenders are invited.

4. Similar Works means: Similar work means having experience in **“Control, Instrumentation, electrical and electronics related works.**

5. The value of executed works shall be brought to the current costing level by enhancing the actual value of work at simple rate of 7 % per annum, calculated from the date of completion to last date of submission of tenders.

6. **Evaluation Criteria**

6.1 Techno Commercial Cum Financial Bids shall be opened on the stipulated date and time indicated. On opening date, the bidders can login and see the status of Bids after opening. Only those bidders who satisfy eligibility criteria shall be Evaluated.

After opening Techno Commercial Cum Financial Bids, The bidders who are meeting the minimum eligibility criteria as indicated in point 3 and 4 will only be considered for further evaluation. The bids will be further evaluated on the basis of performance of any one similar completed works and/or on- going work at client’s premises and as per the proposal submitted by the bidder by committee constituted by BARC.

## **6.2 Disqualification of bids.**

The Department however reserves the right to verify the particulars furnished by the bidder independently and reject any bid without assigning any reason and to restrict the list of pre-qualified contractors to any number deemed suitable in case too many bids are received satisfying the basic Pre-Qualification criteria. Even though a bidder may satisfy the above requirements, the bidder may be liable to disqualification if the bidder has:

- (a) Made misleading or false representation or deliberately suppressed the information or not submitted sufficient information in the forms, statements and enclosures required in the pre-qualification document.
- (b) Record of poor performance such as abandoning work, not properly completing the contract, or financial failures /weaknesses etc.

## **6.3 FINANCIAL INFORMATION**

Bidder should furnish the following financial information:  
Annual financial statement for the last five years  
Solvency Certificate from bankers in the prescribed form

## **6.4. EXPERIENCE IN SIMILAR WORKS**

6.4.1. Bidder should furnish the following:

List of all works of similar class successfully completed during the last five years

## **6.5. ORGANISATION INFORMATION**

Bidder is required to submit information in respect of his organization.

- (a) Name & Postal Address, including Telephone, Fax Number, E-mail address, etc.
- (b) Copies of original documents defining the legal status, place of Registration and principal places of business.
- (c) Names & addresses of the Directors and Officers to be concerned with the work, with designation of individuals authorized to act for the organization.
- (d) Information on any litigation in which the bidder was involved during the last seven years, including any current litigation.
- (e) Authorization for employer to seek detailed references.
- (f) Number of Technical & Administrative Employees in parent company, subsidiary company and how these would be involved in this work
- (g) The qualified man power Clause will be viewed very seriously. During our evaluation of the form the contractor shall confirm that qualified persons such as Helper X std, Skilled Electrician/ Fitter ITI, Supervisor/ Engineer(DEC/DEE/BE) shall be in their attendance Roll directly or indirectly. This shall be brought out clearly in their offer or otherwise the offer may be liable for rejection.

## **6.6. TOOLS & EQUIPMENT**

Bidder should furnish the list of Tools and Tackles for carrying out the work. Details of any other equipment required for the work not included and available with the bidder may also be indicated.

### **6.7 Placement of Work order**

Techno commercial cum financial bid shall be evaluated and approved by the competent authority before placement of work order to the successful bidder.

### **6.8 Return of EMD to unsuccessful bidders.**

EMD of unsuccessful bidders shall be returned after placement of work order.

### **6.9 Cancellation of tender by competent authority.**

The competent authority reserves the right to cancel any or all tenders or to allot part of works to different agencies without incurring any liability to the Department and without assigning any reason thereof

### **6.10 General:-**

- a. Letter of transmittal and forms for Pre-qualification for the eligible category are given in subsequent paras.
- b. All information called for in the enclosed forms should be furnished against the relevant columns in the forms. Even if no information is to be provided in a column, a "Nil" or "no such case" entry should be made in that column. If any particulars /queries are not applicable in case of the bidder, it should be stated as "Not Applicable". The bidders may please note that giving incomplete/ unclear information called for in the tender forms, or making any change in the prescribed forms, or deliberately suppressing any information, may result in disqualification of the bidder summarily.
- c. References, information and certificates from the respective clients certifying suitability, technical know-how or capability of the bidder should be signed by an officer not below the rank of Executive Engineer or equivalent.
- d. The bidder may furnish any additional information, which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish superfluous information. No information shall be entertained after submission of pre-qualification document unless it is called for by the Employer.
- e. Any information furnished by the bidder found to be incorrect either immediately or at a later date, would render him liable to be debarred from tendering/taking up of work in this Department.
- f. Prospective bidders may request for clarification of the project requirements and pre-qualification documents. Any clarification given by the Employer will be forwarded to all those agencies who have purchased the pre-qualification document.
- g. "No right to claim" : "The contractor personnel shall not have any indefeasible right to claim for any regular appointment under BARC, RMP, Mysuru or any other DAE units under any circumstances".
- h. "Above said works will be as per Contract labour regulation and Abolition (CLRA)-1970 and Industrial dispute act-1947".
- i. **Confidentiality Clauses: -**

#### **i) Confidentiality:**

No party shall disclose any information to any 'Third party' concerning the matters under this contract generally. In particular, any information identified as " Proprietary" in

nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party.

This clause shall apply to the sub-contractors, consultants, advisors or the employees engaged by a party with equal force.

ii) "Restricted information" categories under Section 18 of the Atomic Energy Act, 1962 and "Official Secrets" Under Section 5 of the Official Secrets Act, 1923:-

Any contravention of the above-mentioned provisions by any contractor, sub-contractor, consultant, adviser or the employees of a contractor, will invite penal consequences under the above said legislation.

iii) Prohibition against use of BARC's name without permission for publicity purposes The contractor or Sub-contractor, consultant, adviser or the employees engaged by the contractor shall not use BARC's name for any publicity purpose through any public media like Press, Radio, TV or Internet without the prior written approval of BARC.

iv) In case of receipt of any adverse charter and antecedent remarks /notification against the Contractor/ Company / Firm/ Proprietor and / or his Contract personnel, Consequent to the security vetting, BARC reserves absolute right to terminate the contract forthwith without assigning reason / show cause notice. Under the circumstance the Contractor will have no right to claim good any losses / liability that may be incurred as consequence to the above action initiated by BARC. BARC also reserves the right to forfeit in part / full Performance Security and /or Security Deposit in possession of the Government for failure on the part of the Contractor to abide / adhere to the Security Instruction issued by DAE / BARC from time to time.

v) Work shall be executed according to General Conditions of Contract, Special Instructions to tenderers, Specifications, Drawings, Schedule of Quantities etc. of BARC,

**j. Method of Application:**

1. If the bidder is an individual, the application shall be signed by him above his full name and current address.
2. If the bidder is a proprietary firm, the application shall be signed by the proprietor above his full name and full name of his firm with its current address.
3. If the bidder is a firm in partnership, the application shall be signed by all the partners of the firm above their full names and current addresses or alternatively by a partner holding power of attorney for the firm. In the latter case, a certified copy of the power of attorney should accompany the application. In both cases a certified copy of the partnership deed and current address of all the partners of the firm should accompany the application.
4. If the bidder is a limited company or corporation, the application shall be signed by a duly authorised person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The bidder should also furnish a copy of the Memorandum of Articles of Association duly attested by a Public Notary.

### 6.11 Final Decision Making Authority

The employer reserves the right to accept or reject any bid and to annul the pre-qualification process and reject all bids at any time, without assigning any reason or incurring any liability to the bidders.

### 6.12 Particulars of work are Provisional

The particulars of the work given are provisional. These are liable to change and shall be considered only as advance information.

7. As per the security procedure in force in Bhabha Atomic Research Centre, the successful bidder shall be vetted by the Security Section of BARC before award of the work.
8. No modifications in the tender shall be allowed after opening tender.
9. Tenders with any condition including conditional rebate shall be rejected. However, tenders with unconditional rebate will be accepted.
10. If any information furnished by the applicant is found to be incorrect at a later stage, they shall be liable to be debarred from tendering / taking up works in BARC in future forever. Also if such a violation comes to the notice of Department before start of work, the Engineer-in-charge shall be free to forfeit the entire amount of EMD and Performance Guarantee.
11. The time allowed for carrying out the work will be reckoned from the 15<sup>th</sup> day after date of written order to commence the work or from the first day of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
12. Tender will be kept valid for **180 (One Hundred and eighty days)** from the Last date of closing of online submission of tenders or from the date of online submission of revised financial bids (if any) whichever is later.
13. In case the last date of receipt of original document towards Tender Processing Fee & EMD and opening of tender are declared as holiday, the respective date shall be treated as postponed to the next working day, correspondingly.
14. Original Demand Draft/Bankers Cheque/Pay Order / Fixed Deposit Receipt / Bank Guarantee, if any of a Scheduled Bank towards Earnest Money Deposit as applicable and receipt of e-payment done through electronic mode towards Tender Processing fee shall be submitted at aforementioned place, date and time otherwise Tenders are liable to be rejected and will not be processed further.
15. Cheques for Earnest Money Deposit will not be accepted.
16. The contractor whose tender is accepted will be required to furnish by way of security deposit for the due fulfilment of his contract, such sum as will amount to 2.5% of the tendered value of work. In addition, the contractor shall be required to deposit an amount equal to 5% of the tendered value of the contract as Performance Security before commencement of the work but not later than stipulated date of commencement. Performance Security of 5% can also be accepted in the form of Bank guarantees (in case Performance Security exceeds 1.00 Lakhs), fixed deposit receipts of Scheduled Bank or in the form of Government Securities.

17. The Security Deposit will be collected by deductions @ 2.5 % of the gross amount of the running bill of the contractors till the total security deposit recovered will amount to 2.5% of the tendered value of work. Earnest Money Deposit of successful bidder shall be returned back / refunded on receipt of Performance Security Deposit, however in case Performance Security Deposit is in the form of Bank Guarantee, Earnest Money Deposit will be released subsequent to confirmation of verification of Bank Guarantee from the issuing Bank. Security deposit shall be valid upto the expiry of guarantee period plus claim period.
18. If the successful tenderer, fails to furnish the prescribed performance guarantee on or before stipulated dates of commencement the department (BARC) shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely.
19. The acceptance of tender shall rest with department which does not bind itself to accept the lowest tender and reserves to itself the authority to reject any or all of the tenders received, without assigning any reason. All tenders in which any of the prescribed conditions are not fulfilled or incomplete in any respect are liable to be rejected.
20. Canvassing in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.
21. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-In-charge shall be communicated.
22. The department reserves the right to accept the whole or only part of the tender and the tenderer shall be bound to perform the same at the rates quoted.
- 23. LEVY/TAXES Payable by Contractor:**
  1. The contractor should be registered under Goods & Service Tax (GST) and GST as applicable as per the extent order on the work shall be paid by the contractor to concerned tax authorities.
  2. The quoted rate shall be inclusive of GST and shall be payable by the contractor and BARC will not entertain any claim whatsoever in this respect.
  3. Income tax as applicable shall be deducted from each bill paid to the contractor. Please furnish details of PAN & necessary TDS certificate will be issued. TDS under GST has been implemented in the State of Karnataka w.e.f. 01/10/2018 @ 2%. I.e 1% CGST & 1% SGST will be deducted directly from your bill.
  4. Contractor should be registered under EPF & ESIC and as per law, or if Department asks for, then contractor shall pay EPF & ESIC of contract workers to concerned .The bidder should not consider EPF & ESIC in his rates. (GOK notification no(18/2E18) FD 47 CS L2E17 dtd 14/9/2018).Labour welfare cess @1% of the gross of work done shall be deducted from each running account of the bill.
  5. Any other taxes /cess as per Government directives shall be deducted from each bill paid to the contractor, from time to time.
24. If any tenderer withdraws his tender within the validity period and before award of work whichever is earlier or make any modifications in the terms and conditions of the



tender which are not acceptable to the department, then the Government shall without prejudice to any right or remedy, be at liberty to forfeit 50 % (Fifty Percent) of the Earnest Money absolutely. Further, the tenderer shall not be allowed to participate in the re-tendering process of the work.

25. After award of work to the successful bidder, the contractor shall submit time schedule & cash flow statement for approval of Competent Authority which will form part of Agreement.
26. In case of receipt of any adverse charter and antecedent remarks/ notification against the Contractor/ Company/ firm/proprietor and/ or his contract personnel, consequent to the security vetting, BARC reserves absolute right to terminate the contract forthwith without assigning reason/ show cause notice. Under the circumstance the Contractor will have no right to claim good any losses/liability that may be incurred as consequence to the above action initiated by BARC. BARC also reserves the right to forfeit in part/full performance security and/ or security deposit in possession of the Government for failure on the part of the contractor to abide/adhere to the Security instruction issued by DAE/ BARC from time to time.

**Instructions:**

27. The contractor should be registered with [www.tenderwizard.com/DAE](http://www.tenderwizard.com/DAE). Those contractors not registered on the website mentioned above, are required to get registered. If needed, they can be imparted training for online bidding process as per details available on the website.
28. The intending bidder must have valid class-III digital signature for Request for purchase / Download of Tender Document (excel / word/pdf formats). Viewing of basic documents
29. The bid can only be submitted / uploaded after providing details of Fixed Deposit Receipts and or Bank Guarantee of any Scheduled Bank towards Earnest Money Deposit and other documents as specified.
30. Tenders will be received online up to time & date as mentioned above. The receipt of Tender Processing Fee and EMD will be checked first. Their Techno-commercial cum Financial Bid related documents shall be evaluated and accordingly tenderers will be qualified / disqualified by the Competent Authority as indicated in the evaluation criteria above.
31. On opening date, the contractor can login and see the status of Bids after opening.
32. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in **YELLOW** colour and the moment rate is entered, it turns **SKY BLUE**. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
33. List of mandatory Documents to be scanned from original & uploaded within the period of bid submission by bidder:

Sl. No.	Description of the document
1	Financial information
2	Bank Solvency Certificate
3	Details of works of similar executed during the last seven years ending 31.03.2018
4	Details of projects under execution / awarded recently
5	Performance report of works.
6	Structure & Organization
7	Details of technical & administrative personnel to be deployed for the work
8	Details of equipment likely to be used in carrying out the work
9	Organization details
10	Particulars of Managerial / Engineering & Construction personnel
11	<p>Certificates:</p> <p>a. Registration certificate, if any</p> <p>b. Certificates of Work Experience irrespective to three similar completed works each costing 40% of the estimated tender value or two similar completed works each costing 60% of the estimated tender value or one similar work costing 80% of the estimated tender value/ performance certificate</p> <p>c. Certificate of Registration for GST</p> <p>d. TIN Registration Certificate</p> <p>e. PAN (Permanent Account Number) Registration</p>
12	Tender processing fee receipts and EMD related documents. (Hard copies of the same as mentioned above to be sent within due date without which the particular offer will not be considered/opened)
13	Undertaking that the eligible similar work(s) have not been executed through another contractor on back to back basis.
14	Undertaking as per Section II forms & Clause 11 of General Conditions of Contract.
Note	The successful bidder has to submit the hard copies of all the tender documents (NIT, Specifications, Conditions, drawings, Pre bid clarifications etc and any other documents pertaining to this tender) with signature and seal.

**34. The Bidder is required to fill the following: Techno-commercial Bid cum Pre qualification Bid.**

**Notes:**

1. Registered contractors can only purchase/download & submit/upload tenders after paying requisite fees.
2. Interested agencies may visit website [www.tenderwizard.com/DAE](http://www.tenderwizard.com/DAE) for registration.
3. Contact for assistance for registration and participation in e-Tendering:
  - Helpdesk Support: 080 40482000/138/168
  - Toll free Number: 1800 425 5048
  - [Tenderwizard.com/DAE](http://Tenderwizard.com/DAE) under contact buttons

4. Email Ids for sending request for Site visit / clarifications. Bidders should send complete details of person going to attend Prebid meeting.

To– [srivatsa@barc.gov.in](mailto:srivatsa@barc.gov.in) ( 0821-2406495/2406202)

5. In case difference between wordings of English and Hindi version of NIT, the English version will prevail.

Superintending Engineer  
For and on behalf of President of India

### Important Dates

Name of the work: Instrumentation, electrical & Electronics (IEE) related works.

Sl No.	Tender activity	Dates and time	
		From	To
1	Request for purchase/ download of Tender Documents	16.1.2019 (11:00 Hrs.)	27.01.2019 (15:00 Hrs.)
2	Last date and Time for closing of online	11.02.2019 (15.00hrs)	
3	Last date for submission of original documents of Tender Processing Fee & EMD	20.02.2019 (15:00 Hrs.)	
4	Online Opening of Techno Commercial Cum Financial Bid*	27.02. 2019 (15:00 hrs).	
5	Intimation to qualified bidders *	29.03.2019	
6	Issue of Work order *	31.05.2019	

Note1: In case if any of the dates falls on a holiday of BARC then next working day shall be considered for the same.

Note2: \* indicates the dates are tentative and shall be confirmed during tendering activity

**TENDER NOTICE NO: -**

**BARC/MYS/DC&I/ARS/2018/1**

**Instrumentation, Electrical & Electronics (IEE) related  
works in BARC,MYSURU.**

**Technical Specifications for INSTRUMENTATION, ELECTRICAL & ELECTRONICS (IEE) WORKS CONTRACT:**

**1. SCOPE:**

This specification covers the technical requirements of IEE and its associated works in BARC, Mysuru.

**2. STANDARDS & CODES:**

All equipments, accessories, materials, workmanship and installation practices shall be

in accordance with the relevant standards and codes / regulations listed below:

IS 732: Code of practice for electrical wiring installation not exceeding 650 volts.

IS 1646: Code of practice for fire safety of buildings (general) electrical Installation.

IS 5216: Guide for safety procedures and practices in electrical works.

IS 5908: Method of measurements of electrical installation in buildings.

IS 226 : Structural steel standard quality.

IS 800 : Code of practice for use of structural steel in general building Construction.

IS 3072: Code of practice for installation and maintenance of switchgear.

Indian electricity act & regulations

Factory act & regulations

Fire insurance regulations

Statutory rules of state, local municipality, explosive department.

Central electricity authority.

**3. FREE ISSUE MATERIALS (FIM):**

Items marked, as 'FIM' in the schedule of quantities will be issued by BARC MYSORE as free issue material to the contractor, which shall be installed, tested and commissioned at project site, Mysore. All free issue materials are made available either at respective plant buildings or at BARC, MYSORE stores in packed / unpacked conditions. Contractor shall unpack wherever necessary, transport and erect these at the appropriate locations. Any defect, discrepancies observed while receiving the FIM shall be reported immediately to the engineer in charge in writing. The contractor at his own cost shall make Theft/ damage during storage, transportation, and erection good. FIM will be in the custody of the contractor till it is handed over to Engineer in charge after commissioning. Packaging materials, rust, oil or grease etc. has to be removed from equipments prior to installations. Excess FIM shall be returned to stores, Engineer's stock in good condition. The approximate distance of store from work spot is around 500 meters.

#### **4. CONTRACTOR'S SCOPE OF SUPPLY:**

Following items shall be supplied, installed, tested and commissioned by the contractor.

- Stickers, Insulation tape, celofin tapes, AL tags, Permanent markers, welding equipment & its accessories, gas & its cutting tools for completion of job etc are in the scope of supply.
- Other miscellaneous materials that may be required for completion of works contract.

#### **5. INSTALLTION PROCEDURES:**

##### **5.1 General:**

The entire installation is for industrial type indoor installation where erection has to go along with the existing plant operation. Wall / floor openings and embedded parts are provided in the building based on anticipated lay out. The final lay out may require some modification according to site condition. Hence contractor's scope includes welding of additional steel supports to the EP's, drilling and grouting of additional foundation packets etc.

Installation shall be carried out with a view to provide facilities for easy operations, access and future maintenance of the complete system. At no place the installation shall either interfere or obstruct with other activities / equipments in the neighboring areas.

Manufacturer's recommendations as per manuals / guidelines shall be followed for installation, testing and commissioning.

##### **5.2 Cable lying:**

All cables covered under this contract have to be laid over cable trench / floor / wall in ground, first and second floor of various plant buildings.

- **Control Panels/cubicles:**

All panels/cubicles are of non-draw out, single front / double front cubicle construction, floor mountable DB's etc are erected over cable trench / floor / wall and cabling as to be carried out per schedule of quantities.

#### **6. Cable Installation:**

The contractor's scope shall include installation and commissioning of all control & Instrumentation cables as detailed in schedule of quantities. Cables will be supplied as FIM. Installation shall be carried out in neat workman like manner by skilled, experienced and competent technicians in accordance with the approved practices. Proper care shall be taken in handling the cable to avoid formation of nicks etc. The cables shall be bent to a radius not less than 10-12 times the OD of the cables free ends of cables shall be properly sealed to prevent ingress of moisture Cables shall be laid on cable trays, floor trenches, walls, ceilings etc; as the case may be with proper clamping, identification

arrangement. Method of installation routing of cables etc; shall in every case be subject to approval of Engineer in charge and the contractor shall modify / rectify at no extra cost to BARC

**7. LIST OF DEVIATIONS:**

Deviations if any shall be clearly brought out while submitting the bid.

**8. COMPLETION TIME:**

Completion time is **TWENTY FOUR MONTHS** from the date of acceptance of work order.

9. **Rate contract period** of TWO year can be extendable by one more year with mutual consent and agreement.

**10. Bidder should quote the price in the enclosed “work schedule” format only. Other price bid formats are not acceptable and liable for rejection.**

**11. GUARANTEE:**

The entire installation work shall be guaranteed for satisfactory performance for a period of 12 months from commissioning and energizing.

**12. OFFER & PROOF OF ABILITY:**

The offer shall be submitted in **Duplicate** together with documentary proof for having executed similar work and performance certificate from organizations of repute.

**13. PRICES:**

Firm prices shall be quoted for individual items as listed in the schedule of quantities and shall be valid till the completion of the contract. Offer shall be kept valid for acceptance for a period of 180 days from the due date of tender.

**RATE SHALL BE MENTIONED BOTH IN FIGURES AND WORDS.**

14. List of Free issue material: As per annexure-1 enclosed.

15. List of items should be supplied by the bidder:

<b>Item</b>	<b>Make</b>
Permanent markers	Reynolds
AL tags for cable identification-2mm thick	BALCO/NALCO
Al Clamps on trays	
Stickers and Celofin Tapes	Our approved make
Insulation Tapes	Steel Grip



## **16. Cable laying: -**

- 1.1. The healthiness of cables shall be checked before rewinding cables from the cable drum and before laying
- 1.2. The cable length given in the tables are approximate only, however the actual cable route length shall be measured and the cable has to cut from the roll under the guidance of Engineer in charge.
- 1.3. All the cut open ends shall suitably seal immediately to avoided water entry or moisture effect to the cables.
- 1.4. The cables shall not be pulled on road or any other rough surfaces to avoid damage to the cable outer sheet.
- 1.5. Cable shall be pulled over cable roller or wooden logs placed at regular intervals.
- 1.6. The scope also includes making holes in the brick masonry and RCC floors for entry of cable wherever required.
- 1.7. Insulation shall be carried out in a neat, workman like manner by skilled experienced and competent workman in accordance with the standard practice.
- 1.8. Cable shall be laid in one-piece length to avoid joints if straight joints are found necessary, these can be introduced with the prior approval of the employer. The cost of the straight joints, however, shall not be borne by the employer.
- 1.9. Proper care should be exercised in handling the cable to avoid formation of link etc.
- 1.10. It should become necessary, a cable shall be bent to a radius not less than 20 times of cable diameter in case of flexible cable and 6 times of diameter in the case of static cable, the overall diameter of the cable. Since we are using different type of cables it may vary cable-to-cable that has to confirm with the specification of the cables.
- 1.11. Method installation, testing of cables etc shall in every case be subject to the employer's approval and the contractor shall modify and/or rectify at no extra cost to the purchaser any portions of the installation which don't meet with the employer's approval .All damages to the civil and other works on this account shall be made good by the contactors at no extra cost to the employer.
- 1.12. The cable route shall be shortest and there shall be minimum interference with built-up areas, lawns etc.
- 1.13. Mode of cables shall be properly sealed to prevent entry of moisture prior to installation.
- 1.14. The electrical contractor shall be completely responsible for the testing and commissioning of the entire installation covered by this specification.

## **Instruction to the tenderer while submitting the tender**

1. Tenderer shall submit full details of their past experience of work of similar nature and value.
2. The successful tenderer shall have to produce within two week from the date of order / letter of indent awarding the contract, a detailed programme giving the time schedule for the work which will be followed by him this will be subjected to approval by Project Manager, BARC,MYSORE and in no case will the time limit as laid down in the memorandum be exceeded. This programme will form part of the contract. No deviation from this programme will be permitted.
3. We reserve the right to terminate the contract in case the time schedule as supplied by the contractor and approved by Project Manager is not adhered to. In such event the contractor will be paid for the works as actually done by him and approved by Project Manager. The contractor however shall not be entitled for any compensation whatsoever for termination of the contract.
4. After the completion of the work the tenderer will return the drawings issued to tenderer to the owner. Final payment will be made only after the receiving of the drawings.
5. The tender should be valid for a minimum period of six months (180 days) from the date of opening of the tender. If the tenderer withdraw or modify his tender within the period of four month his earnest money deposit will be liable to forfeiture.
6. The contractor shall bear entire responsibility, liability and risk relating to coverage of his work force under different statutory regulations including Workman's Compensation Act, Factory Act, the Contract Labour (R&A) Act, minimum wage act and other relevant statutory regulations.
7. The successful bidder shall ensure that all safety precautions are invariably taken to safeguard accidents and injuries to his workman All necessary safety appliance i.e. helmets, goggles, gloves, safety belts etc as directed by the Engineer-In-Charge shall be provided by the contractor at his own cost.
8. Successful tenderer shall depute his full time qualified Engineers to look after the work from the commencement to the completion of the entire job.
9. Adequate storage open space will be allotted to the contractor at the site and he should make his own arrangement for an enclosed storage and be responsible for the custody of his material and also material supplied to the contractor by the department before and during erection, till they are commissioned and handed over to the owner.
10. 2% Income tax will be recovered from your bill. E. cess shall also be recovered.
11. **Payment terms:** Payment will be on annual basis, on pro-rata basis and through measurement book. First running bill as per actual on completion of one year from the date of W.O. The 2<sup>nd</sup> and final running bill will be at the completion of all jobs indicated. Payment will be made only after completion related of work to satisfaction of Engineer-in-charge.

## **Special instructions to the contractors**

1. The working hours of our General shift is 09.15 Hrs to 17.45 Hrs on all working day. The bidder shall be permitted to work from 09.20 Hrs to 17.30 Hrs on all working days only.
2. Bidder shall be responsible for the transportation of their men and materials to the site.
3. Bidders personnel can avail the facility of canteen located at site on payment basis.
4. Bidder shall carryout the work under their own supervisory staff, without which work permit shall not granted.
5. "Above said works will be as per Contract labour regulation and Abolition (CLRA)-1970 and Industrial dispute act-1947".
6. **"No right to claim"** : The contractor personnel shall not have any indefeasible right to claim for any regular appointment under BARC, RMP, Mysuru or any other DAE units under any circumstances".
7. **Confidentiality:**  
No party shall disclose any information to any third party concerning the matters under this contract generally. In particular, any information identified as "**proprietary**" in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party. This clause shall apply to the sub-contractors, consultants, advisers or the employees engaged by a party with equal force.
8. **"Restricted information" categories under Section 18 of the Atomic Energy Act, 1962 and "Official Secrets" under section 5 of the official secrets Act, 1923**  
Any contravention of the above mentioned provisions by any contractor, sub-contractor, consultant, adviser or the employees of a contractor will invite penal consequences under the aforesaid legislation.
9. **Prohibition against use of BARC's Name without permission for publicity purpose**  
The Contractor, sub-contractors, consultants, advisers or the employees engaged by the contractor shall not use BARC's name for any publicity purpose through any public media like press, radio, TV or internet without the prior written approval of BARC.
10. **Subcontracting**  
If the bidder desired to avail the help of other firms, i.e. sharing of skilled men and material handling equipment shall be highlighted in the offer giving the details of contractor with name, address, nature of work, past experience, documentary evidence, top show the competence of such sub-contacting /understanding with the other firms. However the bidder shall be responsible to the department for all sub-contracting work.
11. The work execution shall be under strict safety and security regulations in force at site, under the supervision of our departmental Safety Officer.

## 12. Security Regulations-

The bidder shall follow at site all security rules as may framed from time to time. The bidder shall ensure that of the vehicle like mobile crane, truck / low bed trailer truck that will be brought by him inside the project premises shall only be driven by drivers with valid driving license. A copy of valid driving license will have to be shown to our security personnel before the bidder's vehicle enter the BARC, MYSORE premises.

It is also mandatory to get the character and antecedent verification certificate (PVC) from local police authorities for contractor and his staff for the purpose of entry into BARC, MYSORE. Those who got the verification certificates only will be allowed to work at the site premises.

- The contractor shall take all safety precautions during the execution of awarded work and shall maintain and leave the site safe all the time.
  - The contractor and his sub- contractors, if any, shall comply with the instructions given by the safety engineer or his authorized nominee regarding safety precautions, protective measures, house-keeping requirements etc.
  - The contractor shall be held responsible for non-compliance of any safety measures and delays, implications, injuries and fatalities.
  - All necessary personal protective equipments (like safety helmets, safety belts, hand gloves, safety shoes etc) as considered necessary by Engineer –in-charge shall be kept available by contractor for the use of the persons employed on the site and maintain in a condition suitable for immediate use.
  - The contractor shall at all time keep his work spot and surroundings clean and tidy from rubbish, scrap, sample materials and unwarranted tools and equipments.
  - All accidents leading property damage and/or personnel injuries shall be reported to engineer-in-charge.
  - It shall be the responsibility of the bidder to arrange for suitable insurance cover for all the worker engaged by him against all sort of accidents, injuries etc. while executing the job.
- 11 Contractor shall guarantee the installation and the materials supplied by him for a period of twelve month from the date of issue of completion certificate. Any damage/defect that may arise, or found later of the materials supplied by him or in the workmanship shall be rectified or replaced by contractor's expenses as deemed necessary by the engineer-in-charge.
- 12 The contractor shall be prepared to work on areas in accordance with the priorities assigned by the engineer-in-charge and shall complete the job in the sequence as required.
- 13 The Engineer-in-charge reserves the right to reject any work or material not conforming with this specification as well to increase or decrease the quantity of any item including extra accessories. Contractor shall meet such contingencies at no extra cost.

## 14 Project Area

The Project site is located at Rare Materials Project, Bhabha Atomic research Centre, Yelwal – 571130, Mysore District in the state of Karnataka about 18Km from Mysore city.

Owner	: Bhabha Atomic research Center
Project	: Rare Materials Project
Elevation	: 800 Meters
Ambient temp	: Min 13 <sup>0</sup> C to Max 40 <sup>0</sup> C
Relative humidity	: 85 %

## 15 Regulation and Acts (for compliance and approval)

- Indian Electricity Act and Regulation.
- Factory Act and regulations.
- Fire Insurance Regulation
- Statuary rules of state, local municipality, Explosive department.
- Central Electricity Authority.

16 Measurement

All measurement for the purpose as well as mutual forming up of quantities to be procured shall be done by the contractors own cost in the presence of our representatives who will certify the routes, length and quantities for the purpose of the amount payable. You will submit bills for the workdone. The bills will be scrutinized and entered in the Measurement Book. You will sign the measurement entered in the book as a token of acceptance o f the measurement.

17 Workmanship:

Good workmanship and neat appearance are the pre-requisites for complying with the clause of these specifications. With a view to ensure fine workmanship the contractor shall employ licensed wireman with the experience of no less than 3 years in the type of work they are engaged. The work should be done under the supervision of the licensed electrical supervisor with good educational qualification and considerable experience. Contractor shall furnish the names of supervisors and their wireman who will be engaged in this work with details of their experience.

18 MATERIALS STANDARDS: -

The materials used should satisfy all the specification given above and ISS quality and quantity. Standard machineries & process should be used for making the cable accordance with ISS and cable should ensure satisfactory performance for 30 years

19 TESTING: -

Cable laid and dressed will be tested as per ISS. On any condition, test procedure will not be waived.

20 VALIDITY:-

The offer should be valid for 180 days from date of opening the tender. No price variation is allowed with in this period.

21 PAYMENTS.

Payment will be made on one time basis, only after completion of work to satisfaction of Engineer-in-charge. Payment will be made on actual work executed to the satisfaction of engineer-in-charge.

22 Contractor shall submit full details of their past experience of work of similar nature and value together with a copy of valid license.

23 BARC MYSORE will make power supply available to contractor FREE OF COST at one single point. Further distribution is responsibility of contractor.

24 Adequate open space will be allotted to the contractor at BARC,MYSORE site and he should make his own arrangement for enclosed storage. He will be responsible for the custody of his materials and departmental materials issued as free issue materials.

25 The contractor shall bear entire responsibility, liability and risk relating to coverage of his work force under different Statutory regulations including workmen compensation act, Factory act, Contract labour act, Minimum wage act etc.

26 All equipments / materials required for completion of contract work shall be tested in presence of BARC engineer, prior to dispatch and approval to be obtained before actual use of the material at site. In case of any particular item not specified, the best quality available in the market with ISI mark should be used.

- 27 The contractor will arrange all TOOLS AND TACKLES required for the contract work.
- 28 The contractor shall be prepared to work in areas according to the priorities assigned by the engineer in charge and shall complete the job in sequence as required.
- 29 The complete Instrumentation system after installation, testing and commissioning shall meet the applicable codes, regulations, acts and other requirements of BARC, MYSORE.
- 30 Contractor shall depute his senior engineer FOR FULL TIME SUPERVISION and he / his representative should be available at BARC,MYSORE site during the working hours for communications.
- 31 The contractor shall not SUB-LET / TRANSFER the contract or any part thereof.
- 32 The work order is subject to MYSORE jurisdiction only.
- 33 Work shown is estimated only and is likely to vary with in +/- 10% of estimated work.
- 34 Contracts shall follow strictly comply with provisions of various labour laws like contract labour(regulation & abolition) act 1970,contract labour(R&A) central rules 1971, child labour(Prohibition and regulation) act and rules 1988 etc.

#### Company Profile

1. Name of the company
  - a. Name of the person with designation :
  - b. Tel / Fax No :
2. Type of the Company :
3. Year of establishment. :
4. Annual turnover :
5. Nature of work undertaken :
6. PO orders/reference as documentary evidence of SI No.5 :
7. List of material handling equipment, tools & tackles owned or hired or both :
8. Latest income tax return copy :

Annexure-1 : List of Free Issue material(FIM)

Work Schedule : For tender ref: BARC/DC&I/ARS/2018/1

Sr no	Job description
<b>A</b>	<b>Instrumentation, Electrical &amp; Electronics (IEE) activities</b>
1	Chequer plates
2	Cable trays
3	Cables
4	Glands
5	Gland plates
6	Lugs(part FIM)
7	Control panels
8	JBs
9	Brick walls
10	Fire barriers
11	25/15/9 Pin D type/circular Connectors
12	Terminals
13	Relays
14	IEE Scrap / E waste :
15	Annunciation systems
16	Instruments
<b>B</b>	<b>Computers and net working</b>
17	UTP cables/OFC/RJ-45 connectors/I/O RIO rack.
<b>C</b>	<b>Power Electronics and VFDs - Related works</b>
18	VFD power supply panels
19	VFD related PLC panel
20	Inductor coil
21	Air core inductor coil in panel