

# **National Centre for Polar & Ocean Research**

**An Autonomous Society under the Ministry of Earth Sciences,  
Govt. of India**

Headland Sada, Vasco-da-Gama, Goa-403804



## **Tender Document**

**Tender No:-NCPOR/EST/EE/01/19-20**

**Name of the work: - Electrical Cabling & Ancillary Works  
at NCPOR, Goa**

**National Centre for Polar & Ocean Research** (*Ministry of Earth Sciences*),  
*Govt. of India*, Headland Sada, Vasco-da-Gama, Goa-403804

**Notice Inviting Tender**

Tender No: NCPOR/EST/EE/01/19-20

The Director, NCPOR invites sealed Tender for Electrical Cabling & Ancillary Works at NCPOR, Goa. The eligible contractors may visit NCPOR website [www.ncaor.gov.in](http://www.ncaor.gov.in) or [www.eprocure.gov.in](http://www.eprocure.gov.in) for details.

Director

**TENDER TERMS AND CONDITIONS**

1. The Director, NCPOR, Goa invites sealed tenders in one cover system, for the work of **Electrical Cabling & Ancillary Works at NCPOR** on turnkey basis, from the registered Electrical Contractors of Goa or other State Government's Electricity Departments, who have carried out at least One single similar work of Rs. 9 lakh or above or Two similar works of Rs. 7 lakh or above or Three similar electrical works of Rs. 5 lakhs or above during last 5 years ending June 2019.
2. Time period for completion of work is **Three Weeks** from the date of issue of work order.
3. Tender document may be downloaded from NCPOR web site [www.ncaor.gov.in](http://www.ncaor.gov.in) or e-procurement portal [www.eprocure.gov.in](http://www.eprocure.gov.in). Entire tender document (signed and Stamped on all pages) should be submitted in a **Single Sealed cover**, superscribed with the name of the work, tender number, date and time of opening. Tenders will be received **upto 11.00 am on 13.08.2019 and will be opened at 11.30 am on the same day**. Tenders should be dropped in the tender box kept in the Estate section before the closing date and time indicated. If the tender opening day happens to be a holiday then tenders will be opened on the next working day on the same timings. NCPOR is not responsible for any postal delay. Late tenders will be rejected outright.
4. The Earnest Money Deposit (**EMD**) of **Rs. 31,000/-** (Rupees Thirty One Thousand Only) in the form of a demand draft from a scheduled bank, drawn in favour of Director, NCPOR, payable at Vasco-da-Gama only, should accompany the tender documents. Tenders received without EMD will be rejected. EMD & Security Deposit are interest free deposits. EMD of successful bidder will be converted into Security Deposit. EMD DDs of unsuccessful bidders will be returned to them as it is.
5. It is mandatory to quote all items of the price bid. If all items are not quoted then tender will be rejected.
6. Tender submitted shall remain valid for 90 days from the date of opening for the purpose of acceptance and award of work. The extension of validity beyond 90 days from the date of opening shall be by mutual consent.
7. The tenderer shall quote **RATES** both in figures and words. He shall also workout the amount for each item of work and write in figures. On checking if there are differences between the rates quoted by the tenderer in words and figures or in the amount worked out by him, the following procedure shall be followed:
  - When there is a difference between the rates in figures and in words, the rates, which correspond to the amounts worked out by the tenderer, shall be taken as correct.
  - When the amount of an item is not worked out by the tenderer or it does not correspond with the rate written either in figure or in words, the rate quoted by the tenderer in words shall be taken as correct.
  - When the rate quoted by the tenderer in figure and in words tallies but the amount is not worked out correctly the rate quoted by the tenderer shall be taken as correct and not the amount.
10. Before submission of tender, tenderer may inspect the site to acquaint himself about the condition in regard to accessibility of site, nature and extent of ground, working condition of site and locality including stacking of materials, installations of tools and plants (T&P) etc., conditions affecting movement of labour etc. required for the satisfactory execution of work contract. No claim whatsoever on such account shall be entertained by NCPOR under any circumstance.
11. The bidder should have valid PAN/TAN/GST registration numbers which is to be mentioned in the prescribed format
12. Tenders with conditional prices / discounts will be rejected.

13. The work is urgent & successful bidder should commence the work within one week from the date of work order, failure of which, the earnest money will be forfeited.
14. Except writing rates and amount, the tenderer should not write any conditions or make any changes, additions, alterations and modifications in the Price Schedule of tender.
15. In case of termination of contract, the security deposit shall be forfeited and amount necessary to make up this amount shall be recovered from the contractor under this contract, or any other contract with the Employer.

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### **Standard Terms and Conditions**

#### **1. INTERPRETATION:**

In construing these conditions the Specifications, the Schedule of Quantities, additional Conditions and Agreement, the following words shall have the meanings herein assigned to them except where the subject or context otherwise requires.

**WORK OR WORKS:** shall mean all work or works defined in this tender, schedule of quantities. Specifications and such other work or works as the Contractor may be entrusted with for carrying out under this Contract.

**EMPLOYER:** shall mean the Director, NCPOR (National Centre for Polar & Ocean Research) or any other officer authorized by the Director for the purpose.

**ENGINEER:** shall mean the Engineer designated by the Employer to superintend and perform other duties as indicated in the contract.

**CONTRACTOR:** shall mean the individual or Firm or Company, whether incorporated or not, undertaking the work and shall include the legal personal representative or such individual or the persons composing such Firm or Company or the successors of such Firm or Company and the permitted assignees of such individual or Firm or Firms or Company.

**SITE:** shall mean the site of the contract works including any buildings and erections thereon and any other land adjoining thereto (inclusive) as aforesaid allotted by the Employer or the Engineer for the contractor's use.

**COMPENSATION:** shall mean all sums payable by way of compensation under any of the conditions shall be considered as reasonable compensation without reference to the actual loss or damage sustained and whether or not any damage sustained and whether or not any damage shall have sustained.

Words imputing persons include firms and corporations, words imputing the singular only also include the plural and vice versa where the context so required.

The headings are given to the clauses for convenience and they will not limit the meaning or scope of the clauses in any way.

#### **2. CONTRACTOR TO PROVIDE EVERYTHING NECESSARY**

- a. The contractor shall provide at his own cost all materials, (except such materials, if any as may in accordance with the contract, be supplied by the Employer). Plants, tools, appliances, implements, ladders, scaffolding, temporary works etc. requisite for the proper execution of the work whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or which may be necessary for the purpose of satisfying or complying to the requirements of Engineer, as to any manner as to which under these conditions he is entitled to be satisfied together with carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurement or examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Engineer at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract and /or from his Security Deposit.
- b. The Contractor should personally supervise each work till completion or may appoint a qualified Supervisor, pre-approved by the Engineer till the completion of work.  
No separate supervision charges will be paid.
- c. NCAOR shall provide requisite quantity of water, electricity for carrying out the work free of cost, subject to availability in the NCPOR campus.
- d. The Employer on no account shall be responsible for the expenses incurred by the contractor for anything hired, which the contractor needs to complete the ordered work.

#### **3. DUTIES & TAXES**

Rates quoted by the contractor shall include excise and all duties, octroi, toll tax, levies, royalties and all other taxes in respect to this work. GST to be stated specifically in the prescribed columns of the price bid. In absence of any such stipulation, it will be presumed that rates quoted are inclusive of all taxes & no claim whatsoever in this respect will be entertained later.

#### **4. MODE OF PAYMENT**

Payment to the party will be released within 30 days upon submission of bill in duplicate after satisfactory

completion of the entire work as per the actual quantity executed on site, as certified by the engineer after deduction of statutory taxes. No part payment / advance will be made. As per the Govt. of India norms, payment to the Contractors are made online through Public Financial Management System (PFMS). The Contractor should submit his bank account & other details in the prescribed format along with the bill.

**5. DEFECTS LIABILITY PERIOD (DLP)**

DLP is **one year** from the date of completion of work as certified by the NCPDR. During the DLP if any defects in the works are observed then the Contractor has to rectify the same immediately at his own cost.

**6. SECURITY DEPOSIT (SD)**

SD is 10% of the final bill value. EMD of the successful bidder will be converted into SD. The balance SD amount will be deducted from the final bill amount of the contractor. SD is interest free deposit and will be released only after successful completion of Defect Liability Period.

**7. TESTING OF MATERIALS**

The contractor shall provide assistance, instruments, materials, labour and any other arrangement normally required for testing, checking of materials and workmanship as stipulated in the specifications and by statutory authority, at his own cost. The Employer has the right to appoint the testing authorities. The contractor shall pay for the cost of test samples, its packing, transportation including testing fees. Failing so doing the same shall be provided by the Engineer at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract and/or from the Security Deposit or proceeds thereof or of a sufficient portion thereof.

**8. ACCESS**

- a. The Engineer and the Employer or its representative shall at all reasonable time have free access to the works and /or workshops, factories or other places the materials are being prepared or constructed for the contract and also to any place where the materials are lying or from which they are being obtained and the contractor shall give every facility to them for inspection. Except the representatives of statutory authorities and those mentioned above no other person shall be allowed on the works at any time without the permission of the Engineer.
- b. If any work is to be done at a place other than the site of works, contractor shall obtain written permission of the Engineer.

**9. VALUATION & PRICE FOR VARIATION**

The Engineer with the approval of the Employer shall have power to make any alterations/omissions/additions and /or substitutions from the original specifications, drawings, designs and written instructions and such alterations, omissions, additions, substitutions shall not invalidate the contract and any altered, additional, or substituted work which the contractor may be directed to do, in the manner specified above as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work. The rates for such altered additional or substituted work under this clause shall be worked out in accordance with the following provisions in their respective order,

- a. If the rates for the altered, additional, or substituted work are specified in the contract for the work the contractor is bound to carry out the altered additional, or substituted work at the same rates as are specified in the contract for the work.
- b. If the rates for the altered, additional or substituted work are not specifically provided in the contract for the work the rates will be derived from the rates for a similar class of work as are specified in the contract for the work.
- c. Under no circumstances the contractor shall suspend the work on the plea of non-settlement of rates of items falling under the clause.

**10. FAULTY MATERIALS, WORKMANSHIP & DEFECTS AFTER COMPLETION**

- a. The Engineer shall have powers to require the removal from the site of all materials and work, which in his opinion are not in accordance with specifications and in case of default, the Engineer shall be at liberty to employ other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials to be substituted thereof and in case of default the Engineer may cause the same to be supplied and all costs which may attend such removal and/or substitution are to be borne by the contractor.
- b. If it shall appear to the Engineer or to the Estate In-charge that any work has been executed with unsound imperfect or unskillful workmanship or with materials of any inferior description or that any

materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for or otherwise not in accordance with the contract any defects, shrinkage or other faults which may appear within the defects liability period of Six months from the date of completion arising in the opinion of the Engineer, the contractor shall on demand in writing which shall be made within six months of the completion of the work from the Engineer specifying the work, materials, articles defects or other faults complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify or remove and reconstruct the work so specified in whole or in part as the case may require or as the case may be removed the materials or articles so specified and provide other proper and Suitable materials or articles at his own cost. In case of any such failure, the Engineer may rectify or remove or re-execute the work or remove and replace with others, the material or articles complained of as the case may be at the risk and cost in all respects of the contractor.

- c. In lieu of rectifying the work not done in accordance with the contract, the Employer may, allow such work to remain, and in that case make allowance for the difference in value, together with such further reduction as in his opinion may be reasonable.
- d. Provided always that nothing in this clause shall relieve the contractor from his liability to execute the works in all respects in accordance with the terms and conditions of this contract, or from his liability to make good all defects.

## 11. WORKS SHOULD BE OPEN FOR INSPECTION

- a. All work under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Engineer and the contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intention of the Engineer to visit the works shall have been given to the contractor.
- b. The contractor at least three days notice in writing to the Engineer before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof be taken.

## 12. INDEMNIFYING AGAINST DAMAGES TO PERSONS, PROPERTY & STATUTES

The contractor shall take all precautions to avoid all accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of work.

- a. The contractor shall be responsible for all injury to persons, animals or things and for all damage whether such injury or damage arises from carelessness or accident in any way connected therewith. This clause shall be held to include inter alia any damage due to causes as aforesaid to work, building (whether immediately adjacent or otherwise) and to roads, streets, foot paths, bridges or ways as well as all damage caused to the buildings and works forming the subject of this contract by inclemency of weather. The contractor indemnifies the Employer and holds him harmless in respect of all expenses arising from such injury or damages as aforesaid and also in respect of any award of compensation or damage consequent.
- b. The contractor shall reinstate all damage of every sort mentioned in this clause so as to deliver the whole of the contracted works complete and perfect in every respect and so as to make good and otherwise satisfy all claims for damage as aforesaid to the property of third Parties.
- c. The contractor also indemnifies the Employer against all claim which may be made upon the Employer for acts during the currency of this contract by any employee or representative of an employee of the contractor or any sub-contractors, employed by him for any injury to or loss of life of such employees or for compensation payable under any law for the time being in force to any workmen or to the representative of any deceased or incapacitated workmen.
- d. The Employer shall be at liberty and is hereby empowered to deduct the amount of any damages compensation costs charges and /or expenses arising or occurring from or in respect of any such claim and/or damages as aforesaid from any sum or sums due or to become due to the contractor or security deposit.
- e. The contractor shall indemnify the Employer against any action claim or proceedings relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against the Employer in respect of any such matters as aforesaid the contractor shall be immediately notified thereof and the contractor shall be at liberty at his own expense to settle any dispute or to conduct any litigation that may arise there from provided that the contractor shall not be liable to indemnify the Employer if the infringement of the : patent or design of any alleged patent or design right is the direct result of an order passed by the said Employer or his authorized representative .

**13. IN CASE OF DEATH OF CONTRACTOR**

Without prejudice to any of the rights or remedies under this contract, if the contractor dies the Employer shall have the option of terminating the contract without compensation to the contractor.

**14. COMPLIANCE TO LABOUR LAWS**

The contractor shall comply with all the provisions of the Minimum Wages Act, 1948. Contract Labour (Regulation and Abolition) Act, 1970 and rules and orders framed there under and other labour laws affecting contract labour and the rules and orders framed there under that may be in force or brought into force from time to time. NCAOR will not take any responsibilities towards any injury or compensation etc.

**15. EXTENSION OF TIME**

- a. If the contractor shall desire an extension of time for the completion of the work on the grounds of his having been unavoidably hindered in its execution or any other ground, he shall apply in writing to the employer max. within seven days of the date of hindrance on account of which he desires extension as aforesaid and the Employer shall if in his opinion (which shall be final) reasonable grounds shown therefore authorize such extension of time if any which may in his opinion be necessary or proper.
- b. In the event the value of work exceeds the value of the Bill of Quantities owing to variations the contractor shall be entitled to ask for extension of time in proportion to the increased value of work.

**16. STATUTORY VARIATION:** Any statutory increase or decrease in the taxes and duties subsequent to bidder's offer if it takes place within the work completion date will be to the Employers account subject to the claim being supported by documentary evidence. However, if any decrease in taxation rates takes place within the work completion date the advantage will have to be passed on to the Employer.

**17. REPEAT/ADDITIONAL ORDERS:** NCPOR reserves the right to place repeat orders / additional orders on the successful bidder up to 25% of the original value of the Original Work Order at the same prices, terms and conditions stipulated in the original contract.

**18. REPLACEMENTS OF GOODS BROKEN, DAMAGED OR SHORT:** In the event of any stores or part thereof being broken or damaged or received short during transit or during the testing and trial at site before commissioning in service the suppliers shall replace the same free of cost.

**19. POST TENDER CORRESPONDENCE / ENQUIRIES:** Any correspondence or enquiry subsequent to opening of the bids is not desirable, if the same is indulged into, it will be considered for disqualifying the tender. The Tenderer will be required to abstain from pursuing / canvassing the matter, directly or indirectly with any Officers of NCPOR, as otherwise the same would also amount to disqualification of the tender. However, bidder can ask their queries in writing regarding bidding conditions, bidding process prior to the bid opening and/ or rejection of its bid, reason for rejecting a tender after opening of bids.

**20. CLARIFICATIONS FROM BIDDERS:** To assist the process of examination, evaluation and comparison of bids, the Employer may ask all the bidders or any bidder individually for clarification, if any, of their bids, including breakdown of unit rates and price. The request for clarification and the response should be in writing, but no change in the price or substance of the bid will be sought, offered or permitted, except as required to confirm the correction of arithmetical errors discovered by the Employer in the course of scrutiny.

**21. GUARANTEE:** If the goods, stores and equipments found defective due to bad design or workmanship the same should be repaired or replaced by the Contractor free of charge if reported within one year from the date of commissioning of items/equipments whichever. The Contractor will be responsible for the proper performance of the equipments / materials for the respective guarantee period.

**22. PENALTY & TERMINATION OF CONTRACT:** Time is the essence of the contract. If the contractor fails to maintain the required rate of progress or to complete the work and clear the site on or before the contract or extended date of completion, he shall without prejudice to any other right or remedy available under the law, pay compensation the amount calculated at the rates stipulated below or as the Employer may decide (whose decision in writing shall be final and binding) on the amount of the tendered value of the work for every completed day / week (as applicable ) that the progress remains below or that the work remains incomplete.

In case, the work is delayed/not completed within the period stipulated in the contract, penalty shall be levied @ 0.5% per week on the total contract cost subject to maximum of 10% of the total contract cost. The Engineer may without prejudice to his any other rights or remedy against the contractor in respect of any delay, inferior workmanship, any claims for damages and / or any other provisions of this contract or otherwise, and whether the state of completion has or has not elapsed, can take decision & inform the Contractor by notice in writing in any of the following cases.

- i. If the Contractor fails to rectify/replace the defects in spite of written notice by Engineer.
- ii. If the Contractor suspends the progress of work so that in the opinion of the Engineer he will be unable to secure completion of the work by the date of completion and do not improve performance even after written notice.
- iii. If the Contractor neglects to carry out his obligation under the contract and / or commits defaults in complying with any of the terms and conditions and does not remedy if even after written notice.

When the Contractor makes himself liable for action under any of the aforesaid cases, fails to complete the work even after six weeks after the completion period or in case the work is found not in accordance with the prescribed specification, drawings, Employer shall exercise its discretionary power either:

- a. To recover, from the Contractor as agreed by way of penalty clause above, OR
- b. To terminate the contract. Upon such termination, the full security deposit recoverable under the contract shall be liable to be forfeited/recovered and shall be absolutely at the disposal of the Employer, OR
- c. After giving notice to the contractor to measure up the work done by him, get the balance work done by another contractor. Any expenses which may be incurred in excess of the sum which would have been executed by the another contractor, shall be borne and paid by the original Contractor and may be deducted from any of his dues.

Due consideration will be given for waiver / levy of penalty only for the reasons absolutely beyond Contractor's control for which documentary evidence will have to be provided. The request for extension of time in writing giving reasons for delay with supporting documents shall have to be made immediately.

- 23. SETTLEMENT OF DISPUTES/ARBITRATION:** The decision of the Director, NCPDR shall be final and binding for any dispute whatsoever. All questions, disputes or differences whatsoever which may at any time arise between the parties to this agreement touching the agreement or subject matter thereof, arising out of or in relation there to and whether as to construction or otherwise shall be referred to the decision of the Sole Arbitrator, appointed by the Director of NCAOR and the decision of the said Arbitrator shall be final and binding upon the parties.
- 24. RIGHT TO CANCEL TENDER/WORK ORDER:** In case of strike, accident or any other unforeseen conditions causing stoppage of work, NCAOR reserves the right to cancel and/ or modify the tender / work order without any liability for any compensation and / claim or any description.
- 25. JURISDICTION:** All questions, disputes or differences arising under out of or in connection with the Tender / Contract if concluded shall be subject to the exclusive jurisdiction of the court under whose jurisdiction the place from which the tender / Acceptance of tender is issued, is situated i.e. Goa.

I/ We have read all the Terms and Conditions above carefully and agreed to it.

Signature of Tenderer  
Date:  
Place:

Company's Round Seal

**GENERAL TERMS AND CONDITIONS**

1. All materials used shall be as per specifications and ISI marked where ever applicable. ISI marking referred to latest BIS code as published by Bureau of Indian Standards.
2. All measurements shall be at actuals and as per site condition. No allowances shall be permitted for rough cast surfaces or for any aesthetical paintings, design bands, etc. Deductions shall be at actuals and as per site conditions. Joint measurement shall be recorded with the Engineer.
3. The safe custody and upkeep of various items/equipments/tools & plants of various categories of works brought to site is the sole responsibility of the Contractor and he shall employ sufficient supervisory personnel to ensure the safety of these items.
4. While executing/ assembly of the work the contractor shall ensure that existing cables/pipe lines/structures/fittings are not damaged and if due to his negligence, these are damaged, the same shall be set right with no extra cost to the employer.
5. The contractor shall co-ordinate his work with other agencies employed by the employer and ensure that the works of other agencies are not hampered in any way during the duration of the contract.
6. After the work is completed, the contractor shall clean external surroundings, premise etc. to the satisfaction of the Engineer In-charge.
7. Paint and other accessories and materials shall be brought to the site in sealed Containers as supplied by the manufacturer and got approved before being used on the work and the work of painting shall be started only after the cleaned and prepared surface is inspected and approved by engineer.
10. Time is the essence of the contract and the contractor has to perform as such the entire work shall be completed within the stipulated time.
11. The tenderer may visit the site and study the work involved vis-à-vis the quantity and specification before tendering the work. If any discrepancy is observed the same should be brought to the notice of the engineer.
12. Contractor shall provide all necessary tools and plants and safety devices etc. to the workmen as required.
13. The Contractor shall submit, at the expense of the Contractor, to the Engineer following samples and relevant information, found satisfactory by the Contractor as per the Contract, for pre-construction review and approval:
  - (a) Manufacturer's standard samples of Materials,
  - (b) Samples (if any) specified in the Contract, and
  - (c) Additional samples instructed by the Engineer.

Each sample shall be labeled showing Contractor's name, Project name, name of the item, manufacturer's name, brand name, model number, supplier's name and reference to the appropriate drawing number, technical specification section and paragraph number, intended use in the Works, all as applicable.

14. The Engineer shall make any variation of the form as specified below, be necessary and for that purpose, he shall have the authority to instruct the Contractor to do after taking necessary approval of the Employer and the Contractor shall do any of the following:
  - (a) Increase or decrease the quantity of any work included in the Contract,
  - (b) Omit any such work,
  - (c) Change the character or quality or kind of any such work,
  - (d) Change the levels, lines, position and dimensions of any part of the Works,
  - (e) Execute additional work of any kind necessary for the completion of the Works, or
  - (f) Change any specified sequence or timing of construction of any part of the Works.

However, that where the issue of an instruction to vary the Works is necessitated by some default of or breach of contract by the Contractor or for which he is responsible, any additional cost attributable to such defaults shall be borne by the Contractor.

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**SCOPE OF WORK & TECHNICAL SPECIFICATIONS**

- 1).Armoured cable to be laid through underground trench with excavation,route markers ,making end termination, using saddles wherever required along with miscellaneous civil work of core cutting in the wall.
- 2). Providing and fixing of surface mounted Electrical DB , power points, drawing of electrical cables, making earth pits etc as required to complete the job as per BOQ.
- 3).All electrical items used should have ISI mark and as per specifications mentioned in the BOQ.
- 4).The interested bidders should visit the site well in advance to get themselves acquainted with the site and technical information before quoting for the tender.
- 5).Contractor shall have to submit detailed step by step Method Statement indicating procedure of electrical work to be carried out for the completion of the project, and provide details of what machinery to be used machinery / equipment list and its number, technical staff and should maintain occupational health and safety.
- 6).Contractors shall take all precautions to see that the work is done in such a sequence and manner as to prevent all avoidable damage to the existing electrical setup or injury to life. Any damage to nearby property or structure shall be made good by the contractor without extra claims.

**List of Recommended Makes/Brands :**

Panels & DBs - legrand,hager,Anchor,Havells,Kriscontrol.  
 MCB - legrand,Schneider,ABB,Siemens.  
 Casing capping:- presto plast,Precision, Polycab,Modi  
 Cable Glands and lugs - Siemens / Comet / Jainson /Polycab  
 Electrical cables and wires - Finolex,Polycab,Havells.  
 Switches & Sockets:Roma,Legrand.  
 DWC pipes:Telorex,Rex,Duraline,Darshan.

Note: In case of non-availability of the recommended brands, suitable substitution may be made with prior approval of Engineer in charge.

Annexure- V

**National Centre for Polar & Ocean Research  
Headland ,Sada, Vasco-da-Gama, Goa 403 804**

**EMD details**

**I /we have enclosed,**

A crossed DD No. í í í í í í í í í í í dated í í í í í í í í í í í ..

Of **Rs. 31,000/- (Rs. Thirty One Thousand Only)** drawn in favour of Director, NCPOR

payable at Vasco-da-Gama, Goa towards **EMD.**

**Name & Signature of the Tenderer with seal:**

**Date:**

**Particulars of The Tenderer**

Name of the Contractor : \_\_\_\_\_

Name of the Firm : \_\_\_\_\_

Telephone No. (Office) : \_\_\_\_\_

Telephone No. (Residence) : \_\_\_\_\_

E-mail ID / website : \_\_\_\_\_

Permanent office Address : \_\_\_\_\_

: \_\_\_\_\_

: \_\_\_\_\_

Residential Address : \_\_\_\_\_

: \_\_\_\_\_

Cell Phone / Landline No. : \_\_\_\_\_

\*Electrical Contractors Licence Number : \_\_\_\_\_

Contractor's Licence valid up to: (Date) : \_\_\_\_\_

\*PAN/TAN No. of the firm : \_\_\_\_\_

\* GST Regn. Number : \_\_\_\_\_

Whether the Contractor/ above Firm is ever black listed/barred/prosecuted by any organization? **YES / NO**

*(\*pl. enclose self certified copies)*

**Name, Signature of the Tenderer with seal:**

**Work Completion Proforma**

**Pl. provide details of Work Experience as per tender:** At least One single similar work of Rs. 9 lakh or above OR Two similar works of Rs. 7 lakh or above OR Three similar electrical works of Rs. 5 lakhs or above during last 5 years ending June 2019

Enclose self certified copies of Work Orders & Work Completion Certificates.

Sr. No.	Name of work	Location of site	Value of work	Date of completion of work	Name of the Organization who awarded the work. Contact Person and contact numbers

**Name :  
& Signature of the Tenderer with seal**

**Schedule of Rates (Price Bid)***(Only RATE in words and figures. Amount in figures)*

Sr.	Description	Unit	Quantity	Rate (Rs)	Amount (Rs)
1	Supplying & laying of 4 x 50sq mm PVC sheathed / XLPE aluminium armoured power cable of 1.1 KV grade through the DWC pipe(63mm) with excavation for cable trenches depth upto 0.5 m including removal of excavated soil,with route markers after every 06 meters of span ,refilling with the excavated soil after and disposal of surplus excavated soil as directed, within a lead of 50 metres.	Rmt	90		
<i>Rate in words -</i>					
2	Supplying and making end termination with brass compression gland and aluminium lugs for 4 X 50sq.mm size XLPE aluminium conductor cable of 1.1 KV grade.	Nos	2		
<i>Rate in words -</i>					
3	Supply,laying,testing and commissioning of 4 X25sq.mm 1.1 KV grade XLPE armoured alluminium cable with clamps on wall surface with necessary cutting in the wall and making good the same, as required for completing the job.	Rmt	185		
<i>Rate in words -</i>					
4	Supplying and making end termination with brass compression gland and aluminium lugs for 4 X 25 sq. mm size XLPE aluminium conductor cable of 1.1 KV grade.	Nos	8		
<i>Rate in words -</i>					

5	Supplying & laying of 3 x 16sq mm PVC sheathed / XLPE aluminium armoured power cable of 1.1 KV grade through the DWC pipe(50mm) with excavation for cable trenches depth upto 0.5 m including getting out the excavated soil,with route markers every after 06 meters of span ,refilling with the excavated soil after and disposal of surplus excavated soil as directed, within a lead of 50 metres.	Rmt	85		
<i>Rate in words -</i>					
6	Supplying and making end termination with brass compression gland and aluminium lugs for 3 X 16 sq. mm size XLPE aluminium conductor cable of 1.1 KV grade.	Nos	2		
<i>Rate in words -</i>					
7	SITC of indoor wall mounted PDB,flush front ,bottom cable entry,front operated,dust and vermin proof,powder coated,to be constructed from 14G/16G CRCA MS sheet comprising of Aluminium busbars. Incoming 01no 250A TP 25KA TM MCCB with spreader terminals, rotary handle and aux. & trip contact. Outgoing 04nos 100A TP 25KA TM MCCB with spreader terminals.	Nos	2		
<i>Rate in words -</i>					
8	SITC of outdoor floor mounted PDB with stand ,flush front ,bottom cable entry,front operated,dust and vermin proof,powder coated,to be constructed from 14G/16G CRCA MS sheet comprising of Aluminium busbars. Incoming 01no 250A TP 25KA TM MCCB with spreader terminals, rotary handle and aux. & trip contact. Outgoing 04nos 100A TP 25KA TM MCCB with spreader terminals.PDB to be fixed/mounted on a suitable concret foundation at bottom.	Nos	3		

<i>Rate in words -</i>					
9	Supplying, fixing, testing and commissioning of 6 Way (MCCB+18) surface mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, with metal door, dust protected, duly powder painted, including earthing, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's, with 100 amps FP 16 KA MCCB as incomer, interconnection between incomer MCCB and bus bars as required and cable termination, with 64A TP MCB (02nos) and 32A TP MCB (02 nos) ,etc for completing the job.	Nos	2		
<i>Rate in words -</i>					
10	Supplying , fixing ,testing and commissioning of ,8 way (8+ 24), Double door (metal) , horizontal type, TPN MCB distribution board of sheet steel, on surface, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections and cable terminations, powder painted including earthing , with 63A FP MCB(01 no)as incomer and 20A SP MCB (10 nos) etc for completing the job.	Nos	2		
<i>Rate in words -</i>					
11	Supplying , fixing ,testing and commissioning of 8way SPN DB,Double door (metal) , sheet steel, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder coated including earthing etc.with 32amps DP MCB(10 KA,01 No) and 20A SP MCB (10 KA,03 nos) ,with cable termination,at the height of 300mm from the floor level, etc as required for completing the job.	Nos	4		

<i>Rate in words -</i>					
12	Supplying , fixing ,testing and commissioning of metal enclosure with 63A 4pole MCB , surface mounted, as required for completing the job.	Nos	8		
<i>Rate in words -</i>					
13	Providing and fixing of on surface power points with surface mounting box and modular cover plate with frame,including 10/20 amps modular switch and socket and cable termination,At 300mm above floor leveletc.as required for completing the job.	Nos	30		
<i>Rate in words -</i>					
14	Supplying and drawing of 3 X 4 Sq.mm (LNE) FR PVC insulated copper conductor, single core cable in through the casing capping including cable termination as required for completing the job.	Rmt	60		
<i>Rate in words -</i>					
15	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick (10.5kg) including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 20 mm dia ,2.7 metre long (GI), with charcoal/coke(96kg) and salt(5kg) etc as required for completing the job.	Nos	5		
<i>Rate in words -</i>					
16	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required as required for completing the job.	Rmt	35		
<i>Rate in words -</i>					

17	Earth work in excavation for earth pit by mechanical means / manual means over ordinary rock areas as required for completing the job.	Cum	20		
<i>Rate in words -</i>					
18	Cutting and excavating existing Bitumen/concrete/paver pathway by manually/mechanically for making trench 0.3(b)x0.3(h) mtr, laying GI Pipe-150mm dia(B-class). in same trench and then refill with available earth, reconstruct the same pathway by using M 25 grade concrete and finishing with same suitable material of existing site for making good etc. as per the direction of engineer incharge.	Rmt	25		
<i>Rate in words -</i>					
A	<b>Sub total :</b>				
B	<b>GST .....% on (A) :</b>				
C	<b>Other Charges if any :</b>				
D	<b>TOTAL (A+B) :</b>				

\*( In case of variation of GST rates from item to item, a separate sheet may be enclosed)

**(D)** Grand Total: Rs. \_\_\_\_\_

Grand Total in words: \_\_\_\_\_.

1. Discount offered if any, should be included in the quoted rates & should not be shown separately.
2. Bidder should quote all items.
3. Price Evaluation Criteria-Contractor should quote all items given in the price bid. The Lowest Evaluated Bidder (L1) would be arrived from the Grand Total (D) above.

**Certificate:**

It is certified that I/We \_\_\_\_\_ am/are

authorised to submit this bid on behalf of M/s. \_\_\_\_\_

I/We have read the tender document carefully, accept all the terms & conditions of the tender and submitting this Price Bid within the due date and time. It is indemnified that if the work is awarded to me/us, It will be completed as per the rates quoted above, within the time & as per the terms & conditions of the Tender.

**Name & Signature of the tenderer :**

**Date & Seal :**