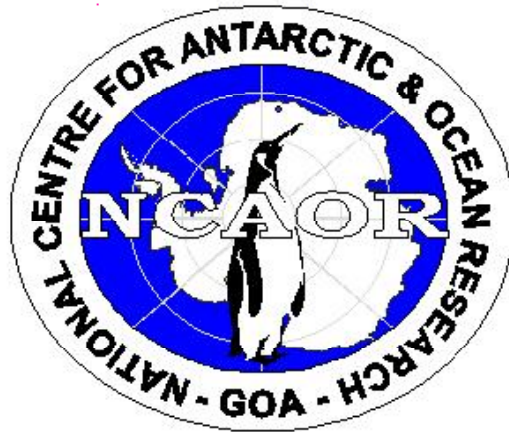


# National Centre for Antarctic & Ocean Research

(An Autonomous Society under the Ministry of Earth Sciences)

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



Tender No: NCAOR/EST/CE/05/17-18

## Tender Document

**Name of the work:** Annual Maintenance Contract for Civil, Carpentry & Sanitary repair works at NCAOR.

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

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**NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH**  
Headland Sada, Vasco-da-Gama, Goa – 403 804

**NOTICE INVITING TENDER**

Tender No: NCAOR/EST/CE/05/17-18

The Director, NCAOR, Goa invites sealed Tenders in one cover for the following work from the eligible Civil Contractors of Government/PSU/Reputed Organizations for the below mentioned work.

Description of work	Tender Fees (Rs)	EMD (Rs)
Annual Maintenance Contract for Civil, Carpentry & Sanitary repair works at NCAOR	500/-	21,435/-

The tender document & other details may be obtained from the Estate Division, NCAOR on all working days between 10.00 hrs to 16.00 hrs on or before 29-01-2018 by a written request along with the tender cost in form of DD drawn in favour of NCAOR, Vasco-da-Gama. Tender document can also be down loaded from NCAOR Website [www.ncaor.gov.in](http://www.ncaor.gov.in) and submitted along with the cost of tender document in form of DD drawn in favour of NCAOR, Vasco-da-Gama. Tender duly completed in all respect should be dropped in the tender box kept in the office of Estate Section on or before 30-01-2018, 11.00 hrs. Date of opening of tender is 30-01-2018 at 11.30 hrs. in presence of the tenderers, if any.

--Sd/---

**Estate In-Charge  
for. Director, NCAOR**

ANNEXURE – I

**TENDER TERMS & CONDITIONS**

1. The Director, NCAOR, Goa invites sealed tenders in one cover system, (Technical & price bid) for the below mentioned work, from contractors of Government/PSU/Reputed Organizations, who have carried out at least one single civil work of 10 lakhs or two works of 7 lakhs or three works of 4 lakhs or above during the last 7 years ending December 2017
2. Description of work: Annual maintenance contract for civil, carpentry & sanitary works etc. at NCAOR.
3. The contractor should have his established office in Goa.
4. The contract will be initially for a period of one year but renewable for two years on year to year basis on the performance of the contractor on the same terms & conditions and rate.
5. The Contractor should be able to start the work within 8 days of issue of work order.
6. Tender forms may be obtained from the office of **Estate Section, NCAOR** during office hours between 10.00hrs to 16.00 hrs, on written request, on payment of Rs. 500/- by DD drawn in favour of NCAOR, payable at Vasco-da-Gama, Goa. Those submitting tender after downloading from the website should invariably enclose DD for Rs. 500/- as tender processing fees , drawn in favour of NCAOR, payable at Vasco-da-Gama, only.
7. Entire tender document should be submitted in a sealed cover, super scribed with the name of the work, date and time of opening. Tenders should be dropped in the tender box kept in the Office of Estate In-charge before the closing date and time indicated.
8. Fixed EMD: The fixed Earnest Money Deposit of Rs.21,435/- (Rupees Twenty one Thousand Four Hundred Thirty Five only ) in the form of a demand draft from a scheduled bank and drawn in favour of **NCAOR, payable at Vasco-da-Gama** only, should accompany the tender documents. Tenders received without EMD will be rejected.
9. The EMD of unsuccessful bidders will be refunded after placement of Order on a successful bidder & EMD of the successful bidder will be retained & adjusted against security deposit.
10. Security Deposit:
  - a. The EMD amount of Rs. 21,435/- of the successful bidder shall be converted into security deposit and the 10% amount from each running bill will be retained as security deposit. The security deposit will be refunded on completion of the Defect Liability period. In the event of contractor fail to comply the terms and conditions of the awarded contract during the contract period, the security deposit would be forfeited.
  - b. No partial refund of security deposit shall be made during the defect liability period. In case the final bill is not settled within deposited period for reasons beyond control and the Employer is satisfied that the security deposit is not required for adjustment of Employers dues or whatsoever dues either in this or any other contract then this security deposit either in full or in part could be refunded at the sole discretion of the Employer.
  - c. 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.
11. Tenderer should quote all items. **If all items are not quoted the tender will be treated as incomplete and will be rejected.**

12. The Employer does not bind himself to accept the lowest or any tender and reserves himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted.
13. 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.
14. **The actual quantity of the total work awarded for execution and the tendered quantity may vary based on the requirement of NCAOR. There is no guarantee of award of work of tendered quantity. It may be less or more or some of the items may not be executed at all during the contract period.**
15. 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.
16. The tenderer may inspect the site to fully 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 accommodations and movement of labour etc. required for the satisfactory execution of work contract. No claim whatsoever on such account shall be entertained by the Employer under any circumstances.
17. EMD will be forfeited if the contractor fails to commence the work as per awarded work order.
18. Except writing rates and amount, the tenderer should not write any conditions or make any changes, additions, alterations and modifications in the printed form of tenders.
19. Defect liability period: Six months from the date of completion of work as certified by the Employer.
20. The successful bidder will get into a formal agreement with the Employer.
21. COMPENSATION: The time for carrying out the work as entered in the tender shall be strictly observed by the contractor and shall be deemed to be the essence of the contract on the part of the contractor. The work shall throughout the stipulated period of the contract be proceeded with all due diligence and the contractor shall pay as compensation an amount equal to two percent or such smaller amount as the Employer (whose decision in writing shall be final) may decide on the amount of the whole work as shown in the agreement for every week that the work remains uncommenced or unfinished after the proper dates

provided that the entire compensation to be paid under the provisions of this clause shall not exceed ten per cent on the cost of the work.

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ANNEXURE – II

**GENERAL CONDITIONS OF THE CONTRACT**

**1. INTERPRETATION:**

- a. 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.
- b. This contract shall comprise of the Articles of Agreement, General Conditions of Contract, Additional Conditions, Scope of Work, the Schedule of Quantities , Specifications, drawings , letter of acceptance of tender and other documents mentioned in the contents sheet attached hereto and including those to which only reference is made herein.

**WORK OR WORKS:** shall mean all work or works defined in 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, NCAOR (National Centre for Antarctic & Ocean Research) or any 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 NCAOR 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 & OTHER CHARGES :**

Rates quoted by the contractor shall include all duties, excise octroi, toll tax, levies, royalties, Contractor's Overhead & Profit and all other taxes or charges applicable in respect of this contract. GST as applicable 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 GST and the NCAOR shall not entertain any claim whatsoever in this respect.

As per the GOI enacted the building & other construction work act 1996 (BOCW Act), labour welfare cess @ 1% will be deducted before payment if, the contractor employees 10 or more workers on any day of the of his work. The contractor should make necessary registration with the labour department towards fulfillment of the rule and regulation of the BOCW act & other applicable Act of the labour department

**4. MODE OF PAYMENT**

The payment will be made against submission of bill in Duplicate only after satisfactory completion of work within thirty days on actual quantity executed as certified by the designated Engineer after deduction of statutory taxes. Standard payment terms are thirty days.

**5. 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 his 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.

**6. CONTRACTOR'S ENGINEERS/FOREMAN & WORKMEN**

- a. The contractor shall give all necessary personal superintendence during the execution of the work and as long thereafter as the Engineer may consider necessary until the expiration of the Defects Liability Period. The contractor shall employ competent Site-Engineer/Foreman pre-approved by the Engineer whose qualification must conform to the requirement specified by the Engineer who shall be constantly in attendance of the work while the men are at work. Any directions, explanations, instructions or notices given by the Engineer to such Site-Engineer or Foreman or any other authorized agent shall be held to be given to the contractor.
- b. The contractor shall on the request of the Engineer immediately dismiss from the works any person employed thereon who may in the opinion of the Engineer be unsuitable or incompetent or who may in the opinion of the Employer misconduct himself.

**7. 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.

#### **8. VALUATION & PRICE FOR VARIATION**

- a. 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.
- b. 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.
- c. 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.
- d. Under no circumstances the contractor shall suspend the work on the plea of non-settlement of rates of items falling under the clause.

#### **9. 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.

#### **10. WORKS TO 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, either himself be present to receive order and instruction or have a responsible agent duly accredited in writing present for that purpose.
- b. The contractor shall give not less than seven 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 before the same is so covered up or placed beyond the reach of measurement and shall not cover up and place beyond the reach of measurement, any work without the consent in writing of the Engineer and the Engineer shall within the aforesaid period of seven days inspect the work , and if any work shall be covered up or placed beyond the reach of measurement without such which the same was executed.

#### **11. 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 interalia any damage due to causes as aforesaid to work, building(whether immediately adjacent or otherwise) and to roads, streets, footpaths, 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 foresaid 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 .

## **12. 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.

## **13. SUB. CONTRACTORS**

The Employer reserves the right to use the premises and any portion of the site for the execution of any work not included in the contract. The contractor is to afford all reasonable facilities to all sub-contractors, specialists, merchants, tradesmen and others who may at any time be appointed by the Employer for executing any work or supplying any goods relating to the constructions, servicing, equipping or furnishing of the work under this contract.

## **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 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. 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 NCAOR, 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.

**17. SETTLEMENT OF DISPUTES** – The decision of the Director, NCAOR shall be final and binding for any dispute whatsoever.

**18. RIGHT TO CANCEL TENDER / WORK ORDER (FORCE MAJEURE):** 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 / or claim or any description.

19. **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 above Terms and Conditions and agreed to it.

*Name & Signature of the Tenderer with seal :*

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**ANNEXURE – III**

**- ADDITIONAL CONDITIONS -**

1. The work and job order should be properly correlated before executing any work.
2. Time is the essence of the contract. Otherwise 2% of total bill value will be deducted from your final bill for a delay of each week, subject to maximum of 10% of total work value. If any work is not completed even 60 days above any job order schedule time, the contract will be terminated without any liability and security deposit will be forfeited.
3. Final payment will be made within 30 days only after satisfactory completion of the entire work on actual quantity executed upon submission of bill in duplicate. All materials accessories required during the said work shall be arranged by the party like ladders, tool, labours transport etc at his own cost.
4. From every job order bill submitted 10% SD will be deducted while making payment. The retained SD will be paid after successful completion of contract period.
5. The bill after completion of each job order should be submitted within 30 days for processing of payment. bills submitted thereafter will not be entertained for payment
6. Successful bidder will receive work order. Against the work order, Job orders will be issued from time to time as per the requirement of work stipulating job description and time schedule.
7. Job of urgent nature will be conveyed verbally/on phone which are to be completed within 24-48 hrs, for which confirmatory job order will be issued after completion of job.
8. Time is the essence of the contract and as such the entire work shall be completed within the stipulated time. If the work/job is not completed within the stipulated time, the Employer is free to get the work done from the outside sources and the total expenditure incurred for that work/job will be recovered from the contractor.
9. No payment shall be made to the contractor for any damages caused by rain, snowfall, floods or any other natural cause whatsoever during the execution of work. The damages to work will be made good by the contractor at his own cost and no claim on this account shall be entertained.
10. All materials used shall be as per specifications and ISI marked whenever applicable.
11. Employer may ask the contractor to give a performance test of the entire installations(s) as per standard specifications and/or as directed by the Engineer and will also submit test certificates as are required by Municipal/Electrical authority or any other authority. Nothing extra shall be payable for the same other than the fees paid to such authorities, which shall be reimbursed on production of receipts.
12. Contractor's quoted rates shall include execution of these works at different levels and nothing extra shall be paid for any item, for working at these levels.
13. 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 for doors, windows, ventilators, openings ducts, etc. shall be at actuals and as per site conditions. Joint measurement shall be recorded with the Engineer In-charge.
14. 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.
15. 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.

16. 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.
17. After the work is completed, the contractor shall clean all the floors, furniture, Windowpanes, external surroundings, premise etc. to the satisfaction of the Engineer In-charge.
18. 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 in charge.
19. Any damages to the property of occupants or of NCAOR shall be made good or Compensated by the contractor.
20. Contractor shall provide all necessary tools and plants and safety devices etc. to the workmen as required.

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**ANNEXURE – IV**

**SCOPE OF WORK**

All types of repairs pertaining to masonry work ,plastering, painting, welding, plumbing/sanitary works, carpentry works- repainting of doors , windows, shutters, inbuilt cupboards etc. in the entire campus of NCAOR. the contractor should have to arrange for all types of tools etc. at their own cost for undertaking maintenance & repair work.

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**ANNEXURE-V**

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

**EMD & Tender Cost details**

I /we have enclosed,

1. A crossed DD No..... dated ..... of Rs. 21,435/- (Rs. Twenty One Thousand Four Hundred Thirty Five Only) drawn in favour of NCAOR payable at Vasco-da-Gama towards EMD.
  
2. I have downloaded the tender form from NCAOR website & enclosed a crossed DD No..... dated ..... for Rs. 500/- drawn in favour of NCAOR payable at Vasco-da-Gama towards Tender cost.

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

**Date:**



**ANNEXURE-VI**

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

**PARTICULARS OF THE TENDERER**

*(Tenderer shall fill this form and enclose it with original copy of the tender)*

Name of the Tenderer : \_\_\_\_\_

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

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

Cell Phone No. : \_\_\_\_\_

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

Goa Office Address : \_\_\_\_\_

(Enclose copies of telephone/light bill of last three months) :

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

: \_\_\_\_\_

: \_\_\_\_\_

TIN/TAN No. of the Firm : \_\_\_\_\_

GST Registration No. : \_\_\_\_\_

**Name :**

**Signature of the Tenderer & seal :**

**ANNEXURE-VII**

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

**Work Completion Proforma**

Give details of the civil works contracts which were completed satisfactorily in the last five years, which are related to this tendered work. Enclosed self certified copy of Work Order /Work Completion Certificate.

<b>Sr. No.</b>	<b>Name of work</b>	<b>Location of site</b>	<b>Value of work</b>	<b>Date of completion of work</b>	<b>Name of the Organization with whom work is done. Contact Person and contact numbers</b>

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

**Date & Place:**

**ANNEXURE-VIII**

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

**Instructions to the Tenderers**

Tenderers are advised to submit tender strictly as per conditions stipulated in the tender document. Please enclose the following with the tender & submit all in a **Single Sealed Cover**.

Cover (Sealed):

1. Covering letter from the Tenderer on his own letterhead.
2. Tender fee in the form of DD.
3. EMD in the form of DD.
4. Annexure –V (EMD & Tender Fee details)
5. Annexure- VI (Particulars of the Tenderer)
6. Work Completion Proforma (Annexure-VII ) along with **self attested copies of work orders & work completion certificate**.
7. Price Bid (with signature & stamp on all pages) (Annexure- IX)

All above documents should be submitted in one sealed envelope (Single BID System) superscribing Name of the Tender, Tender Number and address to **Estate In-Charge, National Centre for Antarctic & Ocean Research, Headland Sada, Vasco-da-Gama ,Goa** as per the date & time mentioned in the tender. Tenders duly completed in all respect should be dropped in the tender box kept in the Estate Section of NCAOR on or before the due date & time.

--Sd/---

**Estate In-Charge**

**SCHEDULE OF RATES (PRICE BID)**

**ANNEXURE IX**

Sr. no	Item	unit	Qty	Rate (Rs)	Sub total (Rs)	GST Rate %	GST Amt (Rs)	Total (Rs)
a	b	c	d	e	f=( d x e)	g	h (on f)	I = f + h
<b>A</b>	<b>DISMANTLING / DEMOLITION &amp; REPAIR WORKS:</b>							
1)	Demolishing / Dismantling/chiseling by manually or mechanically of old RCC/LSM/BB Masonry/CC Block Masonry/Toilet coba and concrete in building at all heights (15m)/slopes, including all scaffolding/staging/platforms & stacking debris as directed (50m lead) & carting them away to contractors dump yard outside the campus.	cum	0.50					
	<b>Only RATE (e)in words:</b>							
2)	Earth work in excavation in foundation, pipeline , trenches drain not exceeding 1.5m in width or 10sqm on plan including dressing of sides, ramming of bottoms lifts up to 1.5m including setting out excavated soil and disposal of surplus soil within 50m lead with							
a)	Ordinary soil	cum	1.00					
	<b>Only RATE (e)in words:</b>							
b)	Hard rock (blasting prohibited)	cum	1.00					
	<b>Only RATE (e)in words:</b>							
3)	Dismantling/HILTI chiselling carefully existing external damaged plaster & concrete in building walls/ceiling parapets etc and damaged floor tiles in floors/skirtings etc any thickness & concrete (IPS) in building rooms etc at all heights (15m)/slopes , including all scaffolding/staging /platforms & stacking debris as directed (50m lead) & carting them away to	Sqm	1.00					

	contractors dump yard outside the campus.							
	<b>Only RATE (e)in words:</b>							
<b>B</b>	<b>ROOFING / WATER PROOFING WORKS:</b>							
1)	Providing and fixing of broken M'Lore Tiles in sloping roof at all heights including all T, P & M and scaffolding. Debris to be disposed as directed within the campus area.							
a)	Providing and fixing M'Lore Tiles as per size including ridge tiles. No separate payment for ridge shall be made.	sqm	20.00					
	<b>Only RATE (e)in words:</b>							
2)	Providing and application of Sika Quick 1000 repair mortar to fill the minor cracks above RCC flat / sloping roof/ damaged plaster wall surface, also if loosened concrete observed will be removed till sound concrete is found and will be treated by Sika Quick 1000. The system will include opening of cracks by 1" X 1", loose concrete then cleaning with water, application of bond coat & application of repair mortar. Curing for 1 day. Supply and application of "SikaTOP Seal 109 hi" above Flat / Sloping roof. Two component, easily applied specially formulated fibre reinforced acrylic polymer modified cementitious, elastic coating. Primer. SikaTop® Seal-109 hi. Consumption Primer: 0.10 kg/m2. Base coat: SikaTop® Seal-109 hi. Consumption base coat: 1.2 kg/m2. Reinforcement: Sika® Fab-1. Top coat: SikaTop® Seal-109 hi. Consumption top coat: 1.30 kg/m2. System requirements: conforms to IS 2645, IS 101; elongation at break: 40 %; slant shear bond strength: approx. 4 N/mm2 as per FIP 5.15; water permeability passes as per IS 2645; weather resistance as per IS	Sqm	1.00					

	101. The vertical surface of the adjoining walls are to be treated upto a height of 30cms.Plan area to be measured for payment.							
	<b>Only RATE (e)in words:</b>							
3)	Providing and applying of "SIKA 101h" Cement Based Crystalline Waterproofing System for toilets / balconies / water tanks. Concrete surface must be clean, sound, level and uncontaminated by oil or grease. Removal of cement laitance, formwork-traces and loosely adhering particles by mechanical means. Area of honeycomb concrete and other surface imperfections must be repaired with quick sika mortar by adding polymer Sika Latex Power in ratio 1:3 with water. Debonding render must be removed. Wet surface until saturated. Add 8 ltrs of clean water to 25 Kg of "Sika 101 h" stir with low speed mixer for 5 minutes until a lump free smooth brushable consistency is achieved. Application of 1st coat by a medium - hard bristle brush on the wet surface and leave to harden (2 - 6 Hours, depending on the temperature). apply second coat in the similar way once first coat gets cured. Consumption 1 Kg/m2/coat. Two coats recommended. Sika 101h must be prevented from drying out too rapidly . The freshly applied surface must be protected from rain and strong winds. Sika 101 h should be protected in pedestrian areas overlaying with 1:3 cement sand screed. Job is all inclusive as above. The vertical surface of the adjoining walls are to be treated upto a height of 90cms.Plan area to be measured for payment.Approved Brand: Dr. Fxit /FOSROC/SIKA.	Sqm	1.00					
	<b>Only RATE (e)in words:</b>							
<b>C</b>	<b>MASONRY WORKS:</b>							

1)	Brick work using common burnt clay building bricks in cement mortar 1:5 (1 cement :5 sand) with best quality local bricks 40 kg/cm <sup>2</sup>	cum	2.00					
<b>Only RATE (e)in words:</b>								
2)	P/I half brick masonry in cement mortar 1:4 (1 cement :4 sand) with best quality local bricks 40kg/cm <sup>2</sup>	sqm	1.00					
<b>Only RATE (e)in words:</b>								
<b>D</b>	<b>PLAIN AND REINFORCED CONCRETE WORKS:</b>							
1)	Providing & Laying cement concrete 1:1:2 (1 cement: 1 coarse sand: 2 graded granitic or basaltic stone aggregate 20mm downward nominal size) including cost of centering and shuttering & nominal steel @ 80kg/cum at all heights & levels including waterproofing compound in the proportion recommended by the manufactures per bag of 50 kg of cement used in mix & as Approved by the Engineer-In-Charge in:							
a)	String course; Copping ; Cill concrete;bed block concrete,Slabs , Beams , Landings etc.	cum	1.00					
<b>Only RATE (e)in words:</b>								
2)	Providing & laying plain cement concrete flooring (1:2:4) 1 cement:2 coarse sand :4 aggregate 20mm down size) upto 120mm thick including ramming to proper line & level existing rubble soiling in PL; watering etc complete.	cum	1.00					
<b>Only RATE (e)in words:</b>								
<b>E</b>	<b>DOORS AND WINDOWS:</b>							
1)	Providing and fixing wood work in frames of doors and windows and other frames, including removing of old frames, including fixing of hold fast 6 nos for doors and 4 nos of windows compete with Termite treatment shall be done for all wooden & ply							

	members.							
a)	Second class matti wood	cum	0.25					
<b>Only RATE (e)in words:</b>								
2)	Providing and fixing 35 mm thick teak wood panelled glazed shutters for doors and window including fitting 2nd class teakwood. Termite treatment shall be done for all wooden & ply members.	Sqm	2.00					
<b>Only RATE (e)in words:</b>								
3)	Providing and fixing SS/ Allum. Fittings including removal of old fitting etc. complete:							
a)	Butt hinges:							
	i) 125 x 75x4mm	Nos	1.00					
<b>Only RATE (e)in words:</b>								
	ii) 100x75x4mm	Nos	1.00					
<b>Only RATE (e)in words:</b>								
	iii)50x45x3mm	Nos	1.00					
<b>Only RATE (e)in words:</b>								
b)	Sliding doors bolts:							
	i) 300x16mm	Nos	10.00					
<b>Only RATE (e)in words:</b>								
	ii)250mmx16mm	Nos	1.00					
<b>Only RATE (e)in words:</b>								
c)	Tower bolts:							
	i) 150x10mm	Nos	10.00					
<b>Only RATE (e)in words:</b>								
	ii)100x10mm	Nos	10.00					
<b>Only RATE (e)in words:</b>								
d)	Handles:							
	i) 75mm - 100mm	Nos	10.00					
<b>Only RATE (e)in words:</b>								
	ii)125mm- 200mm	Nos	10.00					



	<b>Only RATE (e)in words:</b>							
e)	Sliding flat latch:							
	i)300mm	Nos	5.00					
	<b>Only RATE (e)in words:</b>							
	ii)200mm	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
f)	Hook and eye:							
	i)150mm	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
	ii) 100mm	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
g)	Curtain rod chrome plated / powder coated with bracket/ end socket:							
	i) 20 - 25mm dia.	Rmt	10.00					
	<b>Only RATE (e)in words:</b>							
4)	Providing and fixing night latch (godrej make 7 lever)	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
5)	Providing and fixing 4-6mm thick clear/frosted glass and fixed with teak wood polished beading as per requirement including removing of broken glass panes, cutting and removal of door part , refilling of glass lambi putty, nails etc. complete	Sqm	1.00					
	<b>Only RATE (e)in words:</b>							
6)	Providing and fixing bright finished brass mortice latch and lock and pair of lever, handles with necessary screws complete as per existing ones	Nos	3.00					
	<b>Only RATE (e)in words:</b>							
7)	Providing and fixing mosquito nets netlon or equivalent make over the window frame including fixing Velcro tape in the wooden frames and net with screws/ nails etc.	Sqm	30.00					

	<b>Only RATE (e)in words:</b>							
8)	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:							
	<b>Only RATE (e)in words:</b>							
a)	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	2.00					
	<b>Only RATE (e)in words:</b>							
9)	Providing and fixing wall cladding with marine plywood and teak veneer(3-4mmth.) /pine wood facing along with polishing of approved manufacture and priming coat on unex-posed surface ,necessary screws, etc. all complete							
a)	09 mm-12mm thick	sqm	1.00					
	<b>Only RATE (e)in words:</b>							
b)	12 mm-19mmthick	sqm	1.00					
	<b>Only RATE (e)in words:</b>							
10)	Providing and fixing 1st class Indian teak wood moulded beading to door and window frames with alluminium screws, plugs and priming coat on unexposed surface etc upto 50mm wide and up to 25 mm thick.	Rmt	1.00					
	<b>Only RATE (e)in words:</b>							
11)	Providing & applying wood polishing in all wood works such as Palmets; Door/Window shutters; Beading; Staircase railings; Wall cladings; office furniture etc. including all scaffolding; scrapping; wood							

	sealers etc. complete;							
a)	French colour polishing in three or more coats.	Sqm	5.00					
<b>Only RATE (e)in words:</b>								
b)	Melamine spray polishing over french colour polish.	Sqm	5.00					
<b>Only RATE (e)in words:</b>								
12)	Providing and fixing of SS friction stay to Z- Section type openable window including removing & refixing the shutters, alignment & greasing the same; screws etc. complete. Size as per existing window / ventilator requirement.	Nos.	5.00					
<b>Only RATE (e)in words:</b>								
13)	Providing and fixing of colour anodised aluminium accessories in windows/door/ventilators etc. as per existing size and colour including removing old fittings; screws etc complete.							
a)	Handle with locking arrangement; screws etc complete as per existing size.	Nos	10.00					
<b>Only RATE (e)in words:</b>								
b)	Handles:							
	i) 75mm - 100mm	Nos	5.00					
<b>Only RATE (e)in words:</b>								
	ii)125mm- 200mm	Nos	5.00					
<b>Only RATE (e)in words:</b>								
c)	Concealed Locks with three keys as per existing arrangement.	Nos	15.00					
<b>Only RATE (e)in words:</b>								
14)	Removing; Servicing; Oiling & Refixing of existing hydraulic door closers including providing & fixing any spares & accessories; screws etc. complete.	Nos	3.00					
<b>Only RATE (e)in words:</b>								

15)	Providing and fixing new Hydraulic door closer ( DOORSET/ OZONE / HAFALE) including removing of old set. Size includes long arm/ short arm heavy duty type to the satisfaction of Engineer.	Nos						
a)	long arm	Nos	3.00					
<b>Only RATE (e)in words:</b>								
b)	Short arm	Nos	3.00					
<b>Only RATE (e)in words:</b>								
16)	Removing, Cleaning, Scrubbing of existing damaged Sun Control Film in Glazed Windows & doors & Providing & refixing of new film as per glazing size & of approved colour/shade at all heights etc. complete & as directed by the Engineer In Charge. Note: Payment as per actual filmed surface area on site.	Sqm	2.00					
<b>Only RATE (e)in words:</b>								
17)	Providing & Fixing vertical blackout Blinds(75mm) as per existing window size including all necessary fittings in top rail, sliding chains, weights, Side over lap over window size, etc all as per approved manufacturer's specification & to the satisfaction of the Engineer In Charge. Note: Clear window size to be measured for payments.	Sqm	10.00					
<b>Only RATE (e)in words:</b>								
18)	Providing & Fixing Pin-up Board using cork soft board with fabric cost not less then Rs. 150/- /m on one side of ply with necessary TW/aluminium beading/framing around, SR adhesives, Nails, hanging clips etc all as per approved sample / colour / brand complete. All exposed faces of TW / beading / Lipping should be finished with spray melamine polishing to required shade. Termite treatment shall be done for all wooden & ply members.							
a)	Customized pin -up board as per above description	Sqm	3.00					

	<b>Only RATE (e)in words:</b>							
b)	Readymade pin -up board of CORES or equivalent brand	sqm	3.00					
	<b>Only RATE (e)in words:</b>							
19)	Providing & Fixing white writing board of 19mm marine grade plywood & finished with 1.5mm white marker board laminate & sides finished with TW lippings / beading/framing as directed. All exposed faces of TW beading / Lipping should be finished with spray melamine polish to required shade .Termite treatment shall be done for all wooden & ply members.							
a)	Customized white board as per above description	sqm	3.00					
	<b>Only RATE (e)in words:</b>							
b)	Readymade magnetic white board of CORES or equivalent brand	sqm	3.00					
	<b>Only RATE (e)in words:</b>							
20)	Providing & Filling the gaps in between aluminium frame & adjacent RCC/ Brick / CC Block / Stone works by providing ( Gap fill ) of Sikaflex 11 fc Single-component, ready to use, moisture curing, polyurethane adhesive sealant at the joint between window frame and window sill upto 10mm depth & 5mm width & as per direction of the Engineer in Charge etc. complete.	Rmt	1.00					
	<b>Only RATE (e)in words:</b>							
21)	Providing and fixing glazing in aluminium door , window , ventilator shutters and partitions etc with PVC/neoprene gasket etc complete as per the directions of Engineer In-Charge. With float glass panes of 5.5 mm thickness	Sqm	1.00					
	<b>Only RATE (e)in words:</b>							

22)	Providing and fixing 8 -10 mm edge moulded float glass on working tables of any shape and size as per the directions of Engineer In-Charge.	Sqm	2.00					
<b>Only RATE (e)in words:</b>								
23)	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS:6315 marked for doors including cost of cutting floors as required , embedding in floors and cover plates with brass pivot and single piece M.S sheet outer box with slide plate etc complete(with stainless steel cover plate)	Nos.	2.00					
<b>Only RATE (e)in words:</b>								
24)	Providing and fixing of Brass door stoppers as per the approved make and as per existing ones etc complete	each	15.00					
<b>Only RATE (e)in words:</b>								
25)	Providing and fixing SS Telescope Ball Bearing Drawer/ keyboard channel of size 250 MM/ 10 Inch or available in suitable size of approved brand by replacing old one.	Pair	1.00					
<b>Only RATE (e)in words:</b>								
26)	Providing and assembling of wooden partition, made of 50x50 mm sal wood battens spaced at 600 mm c/c horizontally and vertically, fixed with 9 mm marine ply on both the sides and finished with 1 mm thick laminate on both sides of approved make and shade. The partition to be provided with 8 mm thick transparent float glass with etching strips throughout the length including doors as shown in the drawing. The door will be 50 mm thick made of second class teak wood with transparent float glass and ply with laminate, details as per the	sqm	1.00					

	drawing, including all hardware i.e. SS handles, locks, hinges, tower bolts, door closer, etc complete. Painting with oil type wood preservative of approved brand and manufacture. The door to be polished (min 3 coats) with melamine polish. as per approved make and as directed by the Engineer In-charge.and per given Drawing.							
	<b>Only RATE (e)in words:</b>							
27)	Providing and fixing marine plywood plain lining with necessary screws, priming coat on unexposed surface etc. complete with							
a)	6-12mm	sqm	1.00					
	<b>Only RATE (e)in words:</b>							
b	19mm	sqm	1.00					
	<b>Only RATE (e)in words:</b>							
28)	Providing and fixing of 1 mm thick decorative laminate of approved brand on surface of plywood by using specified adhesive etc. all complete	sqm	1.00					
	<b>Only RATE (e)in words:</b>							
29)	Providing and fixing 12 mm thick prelaminated particle board with decorative lamination on both sides, flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.	sqm	1.00					
	<b>Only RATE (e)in words:</b>							
<b>F</b>	<b>FLOORING AND FLOOR FINISHES:</b>							

1)	Providing and fixing coloured ceramic tiles in different sizes for flooring , dado, skirting over 20mm thick cement mortar 1:4 and jointed with confirming to IS 13755 of NITCO, SOMANY, KAJARIA necessary pigments with first quality tiles necessary pigments with first quality tiles.							
a)	size 30x30 cm for flooring	Sqm	1.00					
<b>Only RATE (e)in words:</b>								
2)	Rubble packing with hard laterite stone under floors including watering ramming and consolidating etc in pipeline tranches and other foundations complete	cum	0.50					
<b>Only RATE (e)in words:</b>								
3)	Providing and laying mirror factory polished granite of 12mm thick for flooring and dado over 20 mm thick base of cement mortar 1:4 ( 1 cement:4 sand) laid over and jointed with cement slurry including molding , rubbing, polishing etc, complete	Sqm	1.00					
<b>Only RATE (e)in words:</b>								
4)	Cleaning, Scrubbing & Repolishing of existing Flooring & Skirting in kotha/Marble to provide mirror polish image by machine polishing including cost of mobilising/demobilising the polishing machine to site etc. complete & as directed by the Engineer In Charge. Note: Plan area to be measured for Flooring , Skirting, Risers, Treads etc for payments.	Sqm	1.00					
<b>Only RATE (e)in words:</b>								
5)	Providing and fixing 2 mm thick vinyl flooring as per approved & brand including adhesives, scraping the surface, filling crack, levelling etc. complete.	Sqm	1.00					
<b>Only RATE (e)in words:</b>								



6)	Providing and fixing 2 mm thick acid resistant vinyl flooring as per approved & brand including adhesives, scraping the surface, filling crack, levelling etc. complete.	sqm	1.00					
<b>Only RATE (e)in words:</b>								
7)	Providing and fixing 18mm thk approved make / Jet Black shade <u>mirror</u> finished Granite slabs for Kitchen Counter Tops/ Stiffners / Facade /Table counter top etc of 27" x 118" size in approved shape/ pattern / sink cutouts including cement mortar bedding 20mm thk (1:6), laying the slabs in cement paste or gloved with High strength tile adhesive including roughing of existing Khota top , in proper level and slope, filling the joints with cement / pigments etc complete as directed. Adhesive conforming to IS : 15477, using 5kg per sqm of the tile area, in average 3mm thickness .Cost of Granite should not be lesser than Rs. 250/- sqft.	Sqm	1.00					
<b>Only RATE (e)in words:</b>								
8)	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS:15622 of approved make in all colors and shades, laid on 20mm thick cement mortar (1:4(1 cement :4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete	Sqm	1.00					
<b>Only RATE (e)in words:</b>								
9)	Fixing glazed/ceramic /vitrified floor tiles with cement based high polymer modified quick set tile adhesive (water based) conforming to IS:15477 , using 5 kg adhesive per sqm of tile area , in average 3 mm thickness	Sqm	1.00					
<b>Only RATE (e)in words:</b>								

10)	Providing and fixing Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mortar 1:4 (1 cement: 4 coarse sand) and with suitable proportion of pigment to match the shade of tiles, including rubbing and cleaning etc.	sqm	1.00					
<b>Only RATE (e)in words:</b>								
11)	Providing and laying factory made chamfered edge Cement Concrete paver blocks of M-30 grade , 60mm to 80mm thick in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.	sqm	1.00					
<b>Only RATE (e)in words:</b>								
<b>G</b>	<b>PLASTERING AND FINISHINGS:</b>							
1)	18mm cement plaster in 2 coats under layer 12 mm thk. cement plaster 1:3.5 (1 cement: 3.5 coarse sand) and top layer 6 mm thk. With cement plaster 1:2.5 (1 cement: 2.5 coarse sand) finished with sand faced sponge finish at all heights, External plaster including waterproofing compound in the proportion recommended by the manufacturers per bag of 50 kg of cement used in mix & as Approved by The Engineer- In - charge in both coats of plaster	Sqm	1.00					

	.Job involves cleaning the dismantled plaster surface with wire brush & water jetting & filling the joints with Sika Quick 1000 in addition with polymer Sika Latex Power in 1:3 ratio with water, to fill the joints between concrete blocks and RC columns/beams and concrete blocks.SikaQuick 1000 is a single component, rapid hardening, early strength gaining, cementitious, repair material for concrete. The treatment will include opening of joints by 1" X 1", cleaning it with water, application of bond coat, application of quick sika mortar by hand.Approved water proofing components Make: Dr. Fixit/Sika/FOSROC							
	<b>Only RATE (e)in words:</b>							
2)	12mm cement plaster in one coat in internal walls/ceilings in CM 1:4 at all heights including waterproofing compound in the proportion recommended by the manufacturers per bag of 50 kg of cement used in mix & as Approved by The Engineer- In – charge	Sqm	1.00					
	<b>Only RATE (e)in words:</b>							
<b>H</b>	<b>PAINTING AND FINISHING WORKS:</b>							
1)	Providing & Distempering in OBD in 2 or more coats , Asian , Nerolac or approved brand of required shades on old work including one or more coats of necessary primer, scraping, Applying lambi putty, levelling and filling crack etc. to give an even shade including scrapping & surface preparation, scaffolding etc complete at all heights.	Sqm	1.00					
	<b>Only RATE (e)in words:</b>							

2)	Painting (Two or more coats ) with washable emulsion (plastic) paint of Asian- Apcolite premium emulsion or approved equivalent brand on Internal walls including one or more coats of necessary primer,scraping, appling lambi putty, leveling and filling crack etc. all as directed including all materials, labour, scaffoldings, brushes, tools, equipments etc., complete	sqm	300.00					
<b>Only RATE (e)in words:</b>								
3)	Providing & applying two or more coats synthetic enamel paint of approved brand including one or more coats of necessary primer in all shades to give an even shades etc. complete in walls/ ceilings/ grills / wood works etc. to give an even shade including scrapping & surface preparation, scaffolding etc complete at all heights.	Sqm	250.00					
<b>Only RATE (e)in words:</b>								
4)	Providing & Finishing wall with superior quality Apex weather shield exterior water proofing paint of approved brand and manufacture and of required shade on old work (three or more coats) to give an even shade including successive priming coats as required.	Sqm	250.00					
<b>Only RATE (e)in words:</b>								
5)	Providing and applying of Sika Quick 1000 in addition with polymer Sika Latex Power in 1:3 ratio with water, to repair the cracks. The mix will be hand applied. SikaQuick 1000 is a 1-component, rapid hardening, early strength gaining, cementitious, repair material for concrete. The treatment will include opening of joints by 1" X 1", cleaning it with water, application of bond coat, application of quick sika mortar by hand & as directed by the	Rmt	10.00					

	Engineer In Charge. Approved Make: Dr. Fixit/Sika/FOSROC							
	<b>Only RATE (e)in words:</b>							
6)	<p>Providing &amp; Finishing Exterior wall with superior quality, High performance elastomeric decorative exterior waterproofing coating of approved brand and manufacture and of required shade on new/old work (two or more coats @ 3.25 lit. / sqm ) to give an even shade including scrapping of old existing paints wherever necessary &amp; required primers(1:2)(water:primer) in as many coats as required as per manufactures specification etc complete. Sikagard - 550 W Elastic one component, plasto-elastic coating based on UV - curing acrylic dispersion with excellent crack-bridging properties even at temperatures below 0 deg Cent. Application of primer. Sikagard 551 elastic is a one component, solvent containing primer for all kinds of concrete as well as plaster surfaces. Consumption of primer. 0.20 to 0.25 Kg/m2. Setting time. 6 Hours. Allpication of 1st coat of Sikagard 550 W elastic. Consumption 0.30 Kg/m2. Waiting time 6 Hrs. Application of 2 nd coat of Sikagard 550 W elastic. Waiting time 6 Hrs. Note: Rate of Paint Consumption/Coverage /Work methodology /Procedure/ Paint Gauge/shelf life of coating etc all as per Manufactures Guidelines/Manuals &amp; as directed by the Engineer In Charge. Dr. FXIT ( Rain coat ) / FOSROC / SIKA. All window frames / shutters / glass panes shall be protected by masking tape &amp; cleaned / removed after final spray coating. No extra measurements shall be done for coating door / window / opening jams.</p>	Sqm	75.00					
	<b>Only RATE (e)in words:</b>							

7)	Applying priming coat with ready mixed primer of approved listed brand and manufacture on wood work complete in shutters & frames including scraping & removing existing paints at all heights etc complete.	Sqm	1.00					
<b>Only RATE (e)in words:</b>								
8)	Painting (two or more coats ) with Epoxy synthetic enamel paint of approved brand & manufacture to give an even shade ( on shutters, grills ,wall etc.)	Sqm	10.00					
<b>Only RATE (e)in words:</b>								
<b>I</b>	<b>WATER SUPPLY,SEWERAGE,PLUMBING AND SANITATION WORKS:</b>							
1)	Providing & Fixing Allied CP Brass Fittings including CP brass screws, flanges, etc complete. Job includes removing of old existing fittings & making good the job. Approved Makes : JAQUAR / ARK / MARC.							
a)	Health Faucet with 8mm Dia; 01meter long flexible tube & wall Hook, with NRV. Cat. No. ALD-577	Nos	5.00					
<b>Only RATE (e)in words:</b>								
b)	Bottle trap 32mm size with 250mm long wall connection pipes& wall flange ,Jaquar make cat. No. 769 C.P finish;	Nos	1.00					
<b>Only RATE (e)in words:</b>								
c)	Waste coupling 32mm full tread/half tread, Jaquar make cat. No. 705/709 C.P finish;	Nos	3.00					
<b>Only RATE (e)in words:</b>								
d)	Shower Arm casted heavy round with wall flange Cat. No. SHA-487.	Nos	1.00					
<b>Only RATE (e)in words:</b>								

e)	Rain Shower overhead with Rubit cleaning system 100mm dia. Cat. No. 495.	Nos	1.00					
<b>Only RATE (e)in words:</b>								
f)	Jaquar make concealed body metropole flush valve with control cock operation plate,40/32mm size,Model 1095/1093 with C.P finish; including cutting & making good walls where required.	Nos	2.00					
<b>Only RATE (e)in words:</b>								
2)	Providing & fixing toilet accessories in continental series of Jaquar make in Brass C.P finish, including fixing wooden cleats with CP brass screws & cutting & making good walls where required & or removing of old existing fittings. JAQUAR/ARK/MARC.							
a)	Single Towel Rail 600mm long Cat. No.1111	Nos	1.00					
<b>Only RATE (e)in words:</b>								
b)	Toilet Roll Holder Cat. No. 1151	Nos	1.00					
<b>Only RATE (e)in words:</b>								
c)	Towel Ring Round/Square Cat. No. 1121	Nos	1.00					
<b>Only RATE (e)in words:</b>								
d)	Soap Dish Cat. No. 1131	Nos	1.00					
<b>Only RATE (e)in words:</b>								
e)	soap dispenser cat no.ACN-1137N	Nos	5.00					
<b>Only RATE (e)in words:</b>								
3)	Providing & fixing Jaquar Florentine series, quarter turn ceramic disc fittings in C.P finish; including cutting & making good walls where required & or removing of old existing fittings. JAQUAR/ARK/MARC.							
a)	2-way Bib Cock including flange Cat. No. 5041	Nos	1.00					
<b>Only RATE (e)in words:</b>								

b)	sink cock including flange (wall mounted) Cat No. LYR-38347	Nos	1.00					
<b>Only RATE (e)in words:</b>								
c)	sink cock including flange (Angular Knob) Cat No. FLR-5359N	Nos	1.00					
<b>Only RATE (e)in words:</b>								
d)	Concealed Stop Cock extra heavy body with adjustable wall flange Cat. No. 5083.	Nos	1.00					
<b>Only RATE (e)in words:</b>								
e)	Bib Cock with wall flange Cat No.5037	Nos	10.00					
<b>Only RATE (e)in words:</b>								
f)	Angular stop cock with flange, Jaquar make cat. No. 5053 in Florentine series C.P finish	Nos	1.00					
<b>Only RATE (e)in words:</b>								
g)	Quarter Turn wash basin pillar cock ,Jaquar make cat. No.5011 C.P finish;	Nos	2.00					
<b>Only RATE (e)in words:</b>								
h)	Wall Mixer with provision for overhead shower with 115mm long bend pipe and wall flange, cat no. 5273,CP finish	Nos	1.00					
<b>Only RATE (e)in words:</b>								
4)	Providing & fixing Sanitary Fittings in Star White including all necessary fittings, removing existing fittings, cutting & making good the walls & floors, filling & finishing with waterproof coba works as required etc complete. Approved Make: HINDWARE/CERA/JAQUAR							
a)	Supplying & fixing EWC wall mount "Studio Rimless Wall Mounted Closet" in "STAR WHITE" colour, Hindware make, Model 20104 including	Nos	1.00					



	accessories/hardware kit/Seat cover & all complete.							
<b>Only RATE (e)in words:</b>								
b)	Supplying & fixing EWC floor mount " Slick P/S Standard Closet " in "STAR WHITE" colour, Hindware make, Model 2001 including accessories/hardware kit/Seat cover & all complete .	Nos	1.00					
<b>Only RATE (e)in words:</b>								
c)	Supplying & fixing EWC wall mount "Crystal Extended Wall Mounted Closet " in "STAR WHITE" colour, Hindware make, Model 20048 including accessories/hardware kit/Seat cover/cistern & all complete .	Nos	1.00					
<b>Only RATE (e)in words:</b>								
d)	Supplying & fixing IWC Orrisa Pan in "STAR WHITE" colour, Hindware make, Model 20004 including accessories/hardware kit & complete.	Nos	1.00					
<b>Only RATE (e)in words:</b>								
e)	Supplying & fixing Vitreous wash basin wall mounting type/ table top basin/under counter basin - suitable as per existing one and approved sample, shape and size, STAR WHITE colour, Jaquar, Hindware make with CI brackets painted white / SS Rag Bolts etc complete.	Nos	1.00					
<b>Only RATE (e)in words:</b>								
f)	Providing and fixing White vitreous china laboratory sink 600x450x300 mm. Providing opening of required size & shape for sink in granite platform, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Nos	1.00					

	<b>Only RATE (e)in words:</b>							
g)	Providing & Fixing Slek PVC Cistern with ISI mark, cat no. 189229, white, Hindware make, size 325mm x 476mm x 155mm including all accessories etc. complete.	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
h)	Providing and fixing 1/2 dia heavy duty pvc connection							
	i)45 cm	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
	ii)60cm.	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
5)	Providing and fixing CPVC ( Chlorinated Poly Vinyl Chloride ) Plastic Pipe in SDR 11 as per ASTM D 2846 with pressure rating from 28.1 to 7.03Kg/cm <sup>2</sup> at 23 to 82 deg. centigrade including all necessary fittings as required in Plastic CPVC or Brass CPVC in Tee , bend, clamps, Yellow Adhesive Solution etc; including cutting, deburring /bevelling, fitting preparation, solvent cement application, assembly, set & curing times and making good the walls, Pressure Testing etc. complete (Internal/ External work).							
a)	20mm nominal bore	Rmt	10.00					
	<b>Only RATE (e)in words:</b>							
b)	25mm nominal bore	Rmt	5.00					
	<b>Only RATE (e)in words:</b>							
c)	32mm nominal bore	Rmt	5.00					
	<b>Only RATE (e)in words:</b>							
d)	40 mm nominal bore	Rmt	1.00					
	<b>Only RATE (e)in words:</b>							
e)	50 mm nominal bore	Rmt	1.00					
	<b>Only RATE (e)in words:</b>							

6)	Providing and fixing CPVC full way valves as per ASTM D 2846							
a)	20mm nominal bore	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
b)	25mm nominal bore	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
c)	32mm nominal bore	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
d)	40 mm nominal bore	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
e)	50 mm nominal bore	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
7)	Providing and fixing GM full way valve (heavy) duty with wheel of approved quality including removing existing old fitting & making good the job etc. complete. ZOLOTO.							
a)	20mm nominal bore	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
b)	25mm nominal bore	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
8)	Providing and fixing OHT float valve (brass) with PVC flat faced high pressure float ball of approved quality including removing existing old fitting & making good the job etc. complete. ARK/VIKING/ZOLOTO.							
a)	15 mm nominal bore.	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
b)	20 mm nominal bore.	Nos	3.00					
	<b>Only RATE (e)in words:</b>							
c)	25 mm nominal bore.	Nos	3.00					
	<b>Only RATE (e)in words:</b>							
9)	Providing and fixing Brass heavy duty fittings including removing existing fitting & making good the job of approved quality :							

a)	15 mm nominal bore garden taps.	Nos	1.00					
<b>Only RATE (e)in words:</b>								
b)	15 mm nominal bore stop cock.	Nos	1.00					
<b>Only RATE (e)in words:</b>								
10)	Providing & fixing Stainless Steel Nahani trap Drainer (4" dia.) with Hinges in round/square /flat with frame as per approved sample, including & or cutting & removing existing fitting & making good the surface to satisfaction & as directed by the Engineer In Charge.	Nos	2.00					
<b>Only RATE (e)in words:</b>								
11)	Providing and fixing SELFIT SWR PVC / RINGFIT SWR PVC PIPES (soil, waste & rain water drainage pipes, as per IS 13592 ) of approved make including lubricant / rubber gaskets / spacer saddles, clips / roofing nails etc. complete (single/double socketed) & as directed & or removing existing line at all heights & scaffolding etc. complete.							
a)	75mm dia.	Rmt	10.00					
<b>Only RATE (e)in words:</b>								
b)	110 mm dia.	Rmt	10.00					
<b>Only RATE (e)in words:</b>								
c)	150mm dia.	Rmt	5.00					
<b>Only RATE (e)in words:</b>								
12)	Providing and fixing SWR Moulded Fittings as as per IS 14735 in piping of approved make including lubricating / rubber washers etc. complete.							
a)	110 / 150 mm dia. Plain Bend	Nos	1.00					
<b>Only RATE (e)in words:</b>								
b)	110 / 150 mm dia. Door Bend	Nos	1.00					
<b>Only RATE (e)in words:</b>								
c)	110 / 150 mm dia. Single Plain Tee	Nos	1.00					

	<b>Only RATE (e)in words:</b>							
d)	110 / 150 mm dia. Single Door Tee	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
e)	110 / 150 mm dia. Double Tee/Cross	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
f)	110 / 150 mm dia. Double Door Tee	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
g)	110 / 150 mm dia. Single Plain " Y "	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
h)	110 / 150 mm dia. Single Door " Y "	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
i)	110 / 150 mm dia. Plain Double " Y "	Nos	1.00					
	<b>Only RATE (e)in words</b>							
j)	110 / 150 mm dia. Double Door " Y "	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
k)	110 / 150 mm dia. 45 deg. Shoe Bend	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
l)	110 / 150 mm dia. Coupler	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
m)	110 / 150 mm Reducing Tee ( Plain / Door )	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
n)	110 / 150 mm dia. Vent cowel	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
o)	110 / 150 mm Nahani Trap ( Short / Long )	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
p)	110 / 150 multi floor Trap	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
13)	Providing and fixing GI pipeline "B Class" including all GI fittings, clamps, cutting and							

	threading the pipe including excavation; refilling or cutting of wall and making good the same complete wherever required. (Internal/Exposed works) Includes all scaffolding at all heights. TATA / ZENETH.							
a)	15mm nominal bore	Rmt	1.00					
<b>Only RATE (e)in words:</b>								
b)	20mm nominal bore	Rmt	1.00					
<b>Only RATE (e)in words:</b>								
c)	25 mm nominal bore	Rmt	1.00					
<b>Only RATE (e)in words:</b>								
d)	50mm nominal bore	Rmt	1.00					
<b>Only RATE (e)in words:</b>								
e)	90 mm nominal bore	Rmt	1.00					
<b>Only RATE (e)in words:</b>								
15)	Providing and fixing UPVC / APVC, White/ Grey piping of approved quality including all fittings, trenching and refilling, or clamping on the wall ,pressure 10kg/sqcm2, etc complete. PRINCE / ASTRAL / ASHIRVAD / AJAY / FINOLEX							
a)	20 mm nominal bore.	Rmt	200.00					
<b>Only RATE (e)in words:</b>								
b)	25 mm nominal bore.	Rmt	1.00					
<b>Only RATE (e)in words:</b>								
e)	50 mm nominal bore.	Rmt	1.00					
<b>Only RATE (e)in words:</b>								
16)	Providing laying and joining glazed stone ware pipes grade A with stiff mixture of cement mortar in proportion of 1:1 (1 cement:1fine sand)including testing of joints etc.							
a)	150 mm dia	Rmt	1.00					
<b>Only RATE (e)in words:</b>								
b)	230 mm dia	Rmt	1.00					
<b>Only RATE (e)in words:</b>								

17)	Providing & Fixing Plastic Seat cover in approved brand & colour for EWC including necessary screws, locking arrangements as per existing Model & Make, removing existing fitting etc complete to satisfaction of Engineer In Charge.	Nos	2.00					
<i>Only RATE (e)in words:</i>								
18)	Cleaning and removing blockage including all tools & tackles at all heights & scaffolding, pump pressure jetting etc complete.							
a)	Wash Basins ,Sinks/Bathroom , Kitchen WC traps/ Bottel Traps / Urinal spreaders etc.	Nos	2.00					
<i>Only RATE (e)in words:</i>								
b)	Sewage Manhole / Chambers & its pipe line.	Nos	10.00					
<i>Only RATE (e)in words:</i>								
c)	R/W drain line / Storm Water Gutter including lifting of slabs & refixing etc.	Rmt	1000.00					
<i>Only RATE (e)in words:</i>								
19)	Providing & Fixing Jaquar Urinal sensor Batteries in 6 / 9 Volts. SANYO / DURACELL							
a)	Ultralife 9V Lithium Battery U9VLJPPF	Nos	5.00					
<i>Only RATE (e)in words:</i>								
b)	Duracell Ultra 6V Lithium Battery 2CR5	Nos	5.00					
<i>Only RATE (e)in words:</i>								
<b>J</b>	<b>DEPARTMENTAL SERVICES:</b>							
1)	labour charges for engaging on daily wage along with necessary self owned Tools ; Tackles & Machinery							
a)	Helper / Male coolie (General)	Man Days	300.00					
<i>Only RATE (e)in words:</i>								
c)	Carpenter Furniture Skilled	Man Days	238.00					

	<b>Only RATE (e)in words:</b>							
f)	Plumber Skilled	Man Days	50.00					
	<b>Only RATE (e)in words:</b>							
g)	Mason Skilled	Man Days	1.00					
	<b>Only RATE (e)in words:</b>							
h)	Fitter / Technician Highly skilled - Floor Springs / Door closers / Venitian Blinds / Chair Repairs ,Welders, Carpentter Alluminium Fabrication Skilled etc.	Man Days	1.00					
	<b>Only RATE (e)in words:</b>							
<b>K</b>	<b>MISCELLANOUS WORKS:</b>							
1)	Providing and fixing 600 x 450 mm bevelled edge mirror of superior glass of approved quality 6 mm thk, fixed to wall dado tiles by SS brush finished brass button type glass holders with C.P. brass screws and washer, pvc plugs etc, complete & to the satisfaction of the Engineer In Charge. MODI / ASSI	Nos	5.00					
	<b>Only RATE (e)in words:</b>							
2)	Supply and fixing Precast reinforced concrete Gutter /drainage covers complete with lifting hooks including reinforcement and centering and shuttering and finished with plaster							
a)	1000x900x100 mm	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
b)	1000x600x100 mm	Nos	1.00					
	<b>Only RATE (e)in words:</b>							
3)	Providing and fixing stainless steel Single sinks of one- piece 304 grade of 1.6 mm thick of overall size 689mm x 535 mmx 254mm in Anti Scratch finish/quality inclusive of SS/CP waste coupling, fixing materials and connection piece in CPVC	Nos	1.00					



	pipng in 40/50mm dia., treaded End Cap etc complete. NIRALI / HINDWARE / FRANKE							
<b>Only RATE (e)in words:</b>								
4)	Providing, fabricating and fixing to existing Man hole / Chamber covers with frames and suitable locking arrangement, holdfasts, lifting handles, etc . Frames to be in MS 50mm x 50mm x 6mm & Cover door in GI (14gauge) plate fabricated with MS flat 50mm x 50mm x 6mm , equal angle 50mm x 50mm x 6mm as necessary supports including two coats of approved epoxy primer & two coats of epoxy synthetic enamel etc . Existing chambers to be repaired in brick masonry / plaster / concrete etc complete to make good the job & to the satisfaction of the Engineer.							
a)	Cover Size: 300mm x 300mm	Nos	5.00					
<b>Only RATE (e)in words:</b>								
b)	Cover Size: 600mm x 600mm	Nos	2.00					
<b>Only RATE (e)in words:</b>								
c)	Cover Size: 1200mm x 1300mm	Nos	1.00					
<b>Only RATE (e)in words:</b>								
5)	Using cement Bags in works ISI Mark (50Kg Bag)	Nos	1.00					
a)								
<b>Only RATE (e)in words:</b>								
b)	Using Sand	cum	1.00					
<b>Only RATE (e)in words:</b>								
6)	Providing and fixing of locks for cupboards(overhead and below counters)as per approved make etc complete	Nos	10.00					
<b>Only RATE (e)in words:</b>								
7)	Providing and installation of overhead sintex tanks at all heights and making proper plumbing connections from the existing water supply lines etc complete							

a)	1000 ltrs capacity	Nos	1.00					
<b>Only RATE (e)in words:</b>								
b)	1500 ltrs capacity	Nos	1.00					
<b>Only RATE (e)in words:</b>								
c)	2000 ltrs capacity	Nos	1.00					
<b>Only RATE (e)in words:</b>								
8)	Removing carefully damaged false ceiling and providing and redoing the false ceiling in Gypsum board in existing thickness including necessary supports/runners/perimeter channels etc complete and finishing the surface to all levels/line to the satisfaction of the engineer in charge	Sqm	1.00					
<b>Only RATE (e)in words:</b>								
9)	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side runner with suitably spaced joints to get required length and of size 24x38 mm made inclusive) consisting of main "T" from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using							

	GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge							
a)	8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with give stable crystalline structure with minimum compressive strength 225 kg/ sq. Cm cellulose fiber manufactured through autoclaving process to bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC ( Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.		1.00					
<b>Only RATE (e)in words:</b>								
10)	Providing and applying of red oxide paint on footpaths/pathways etc complete	Sqm	10.00					
<b>Only RATE (e)in words:</b>								
11)	Steel work in single sections including cutting, hoisting, welding fixing in position and applying a priming coat of red lead paint.							
a)	In R.S. joists, channels, angles, tees, tubes	kg	1.00					
<b>Only RATE (e)in words:</b>								
b)	In flats of all sizes	kg	1.00					
<b>Only RATE (e)in words:</b>								
c)	In Sheets of all sizes and thickness	kg	1.00					
<b>Only RATE (e)in words:</b>								

12)	Providing and fixing of Galvanized sheets according to ASTM specification on A792/A792M-97a "Steel sheet, 55% aluminium-Zinc alloy coated by Hot Dip process of approved colour and make etc complete	Sqm	6.00					
<b>Only RATE (e)in words:</b>								
13	Providing and fixing of Bird Control Spikes on beams, rafters, railings, window air conditioners, signs, windowsills, gutters, roof perimeters, support structures, chimneys etc. Made from Virgin UV stabilized poly-carbonate engineering polymer of approved colour and make etc complete	Rmt	20.00					
<b>Only RATE (e)in words:</b>								
14	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, and paneling to be paid for separately) :							
a)	Anodised aluminium	kg	1.00					
<b>Only RATE (e)in words:</b>								
b)	Powder coated (minimum thickness of powder coating 50 micron)	kg	1.00					
<b>Only RATE (e)in words:</b>								

14	Providing and fixing of sign board of 5 mm thick acrylic board with computer cut self adhesive as per approved color vinyl graphics /artwork /letter pasted on it . The sign board will be fixed to the wall /door by means of mirror screw as per the given drawing and directed by Engineer in charge.	sqm	0.25						
<b>Only RATE (e)in words:</b>									
15	Providing and fixing of sign board made of 5 mm thick aluminium composite panel back sheet with computer cut self adhesive as per approved colour vinyl graphics /artwork /letter pasted on it . The sign board will be fixed to the wall /door by means of mirror screw, Hanging chain(for particular board only) as per the given drawing and directed by Engineer in charge.	sqm	0.25						
<b>Only RATE (e)in words:</b>									
P	Sub total of all Items						....		
Q	Total GST Amount on all Items							....	
R	Grand Total (P+Q)								

(R) Grand Total Rs. \_\_\_\_\_

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

- Discount offered if any, should be included in the quoted rates & should not be shown separately.
- Bidders should quote all items given in the price bid. If all items are not quoted then the bid will be considered as incomplete bid and will be rejected outright.
- Price Evaluation Criteria - The Lowest Evaluated Bidder (L1) would be arrived from the Grand Total (R) above.

**DECLARATION**

- 1) We have read and understood all the Terms & Conditions of the above mentioned tender and comply to all Terms & Conditions of your Tender. (In case of any deviation, the Bidder must attach a separate sheet clearly mentioning the Clause No. of the Tender and Deviation thereto)
- 2) We certify that the information mentioned above are true and correct to best of our knowledge.
- 3) In case of receipt of order we assure that the entire work will be satisfactorily completed within the stipulated time.
- 4) We agree to accept payment through e-Banking / Electronics Transfer.

Place:

Signature of Authorised Signatory :

Date:

Name:

Designation:

Seal: