



**TENDER**  
**FOR CONSTRUCTION OF SUMP AND CONTROL**  
**ROOM FOR SOLAR PUMP TESTING FACILITY**  
**AT**  
**NSIC TECHNICAL SERVICES CENTRE, RAJKOT,**  
**GUJARAT- 360 003**



THE NATIONAL SMALL INDUSTRIES CORPORATION LTD.

*(A Government of India Enterprise)*  
**NSIC TECHNICAL SERVICES CENTRE,**  
**AJI INDUSTRIAL AREA**  
**BHAVANAGAR ROAD, RAKKOT**  
**GUJARAT- 360003**

Tel No. 0281-2387396/97/98

**Weblink:** [www.nsic.co.in/tender/current-tender.aspx](http://www.nsic.co.in/tender/current-tender.aspx)  
[www.eprocure.gov.in](http://www.eprocure.gov.in)



**THE NATIONAL SMALL INDUSTRIES CORPORATION LTD.  
(A GOVERNMENT OF INDIA ENTERPRISE)  
NSIC TECHNICAL SERVICES CENTRE,  
AJI INDUSTRIAL AREA  
BHAVANAGAR, RAJKOT,  
GUJARAT- 360 003  
Tel No. 0281-2387396/97/98**

**Ref: - NSIC/TSC/RAJ/SPTL/CIV.WORK/2020-21/01**

**Date: 24.08.2020**

M/s. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Sub:** Tender for Construction of sump and control room for solar pump testing facility at NSIC technical services centre, Aji Industrial area, Bhavanagar road, Rajkot, Gujarat- 360 003.

**Sir,**

Tender document in respect of the above mentioned works containing **40** pages as detailed on page 4 (Index) are forwarded herewith. *Please note that tender is to be delivered in the office of the General Manager , The National Small Industries Corporation Ltd., (A Government of India Enterprise), Technical services centre, Aji Industrial area, Bhavanagar road, Rajkot, Gujarat- 360 003 on or before 15.09.2020 up to 3.00 P.M.*

The Tender should be signed on each page, dated and witnessed in all places provided for in the documents; all other papers should be initialed.

The tender should be accompanied by tender fee and Earnest Money Deposit in the form of demand draft as mentioned in Appendix. Tenders without tender fee and earnest money deposit shall be summarily rejected. The Technical Bids will be opened on 15.09.2020 at 3.30 P.M. and Price Bids of technically qualified bidders will be opened at a later date.

The person, signing the tender on behalf of company/firm or on behalf of another person shall attach with tender a certified copy of proper authority/power of attorney on a non-judicial stamp paper of requisite valueduly executed in his favour by such person, company/firm and must state specifically that he has authority to sign such tenders for and on behalf of such person or company/firm as the case may be, and in all matters pertaining to the contract including arbitration clause.

This letter shall form part of the **“CONTRACT”** and must be signed and returned along with the tender documents.

**Yours faithfully**

**General Manager  
NSIC- TSC, Rajkot**

Encl. 35 Pages

**Signature of the bidder**



## NOTICE INVITING TENDER

Tender notice for Construction of sump and control room for solar testing facility at NSIC technical services centre, Aji Industrial area, Bhavanagar road, Rajkot, Gujarat- 360 003.

**Ref: - NSIC/TSC/RAJ/SPTL/CIV.WORK/2020-21/01**

**Date: 24.08.2020**

Sealed item rate tenders are in **SINGLE STAGE, TWO ENVELOPE METHOD** invited from **eligible and experienced contractors** who have successfully completed similar works during last 5(five) years ending 30.07.2020. Eligibility criteria for this work, (i) Three similar works costing not less than Rs. 26,93,600/- each, or (ii) Two similar works costing not less than the amount of Rs.33,67,000/- each or (iii) One similar work costing not less than Rs.53,87,200/- for carrying out the following work. The values mentioned are exclusive of taxes, GST.

S. No.	Name of the work	Estimated cost (Rs.)	Earnest Money Deposit (EMD) (Rs)	Completion Time	Issue of Blank Tender Document	Last Date of Submission Tender
1.	Construction of sump and control room for solar pump testing facility at NSIC technical services centre, Aji Industrial area, Bhavanagar road, Rajkot, Gujarat- 360 003.	67.34 lacs	1,34,680/-	90 days	From 24.08.20 (within office hours.)	15.09.2020 Upto 3.00 PM

1. Blank tender documents (non-transferable) for above work shall be issued from 24.08.2020 to 15.09.2020 on all working days from the address given below on payment of required tender fee of Rs. 1,180/- (Rupees one thousand one hundred and eighty only) (non-refundable) including GST in the form of DD/Pay order/Bankers Cheque in favour of "NSIC Ltd" payable at Rajkot. The intending tenderers can also download the complete tender document available on the web site: [www.nsic.co.in](http://www.nsic.co.in) and submit the same along with requisite tender fee, earnest money deposit and supporting documents on or before the due date and time of submission. The other option is to pay the tender fee, EMD by RTGS/NEFT to the bank of purchaser as detailed under: ACCOUNT NAME: **NSIC Ltd**, BANK NAME: **State Bank of India BANK A/C NO: 56068001625 BANK IFSC CODE:SBIN0060068**. The Bidder is requested to attach the UTR No. / Bank Statement / RTGS Slip in the Technical Bid, to prove the transfer of payment to the purchaser's Account.
2. Tenderers registered as Micro and Small Enterprises (MSEs) as defined in MSME Procurement Policy issued by department of Micro, Small and Medium Enterprises or are registered with the Central Purchase Organization or the concerned Ministry or Department or Startups as recognized by Department of Industrial Policy and Promotion are exempted from the payment of earnest money deposit and tender fee. However, tenderer seeking exemption from payment of earnest money deposit and tender fee shall submit the proof of the same along with their technical bid.
3. Intending tenderers should have valid registration with appropriate authorities for statutory taxes as applicable.
4. The intending tenderers should have satisfactorily completed (i) Three similar works costing not less than Rs. 26,93,600/- each, or (ii) Two similar works costing not less than Rs.33,67,000/- each or (iii) One similar work costing not less than Rs.53,87,200/- during last five years ending 30.07.2020. Similar nature work means: - "Civil construction works" only.
5. Tender documents can be purchased from the office of the General Manager , NSIC Technical services centre, Aji Industrial area, Bhavanagar road, Rajkot, Gujarat- 360 003 on all working days between 10.00 am to 6.00 pm except on holidays and Saturdays, Sundays, after payment of requisite tender cost as mentioned above.



6. The tender documents duly completed along with EMD in form of Demand Draft/Pay Order in favour of the “**NSIC Ltd**” payable at **Rajkot** from any Nationalized Bank/scheduled bank will be submitted at the office of the General Manager , NSIC Technical services centre, Aji Industrial area, Bhavanagar road, Rajkot, Gujarat- 360 003 upto 3.00 P M on 15.09.2020. Technical bid of the parties shall be opened on the same day i.e 15.09.2020 at 3.30 PM. The tender submitted without EMD or valid exemption certificate, shall be summarily rejected.
7. NSIC reserves the right to reject any or all the tenders without assigning any reason thereof and also not bound to accept lowest tender. Tenders in whom any of the prescribed conditions are not fulfilled or found incomplete in any respect are liable to be rejected.
8. Canvassing, whether directly or indirectly in connection with tender is strictly prohibited and the tender submitted by the contractors who resort canvassing will be liable to be summarily rejected.
9. The Technical Bid submitted by the parties shall be opened on the same day i.e 15.09.20 at 3.30 PM in the presence of tenderers who wish to be present. The price bids of technically qualified parties shall be opened at a later date and the technically qualified parties shall be informed in advance about the opening of their price bid.

**General Manager**  
**NSIC- TSC, Rajkot**



**THE NATIONAL SMALL INDUSTRIES CORPORATION LTD.  
(A GOVERNMENT OF INDIA ENTERPRISE)  
TECHNICAL SERVICES CENTRE  
Aji Industrial Area, Bhavanagar road,  
Rajkot, Gujarat- 360 003**

**Tel No. 0281-2387396/97/98**

**Ref: - NSIC/TSC/RAJ/SPTL/CIV.WORK/2020-21/01**

**Date: 24.08.2020**

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## INSTRUCTIONS TO TENDERERS

### 1.0 GENERAL

Tenderers are advised to acquaint themselves fully with the description of work, scope of services, time schedule and terms and conditions including all the provisions of the tender document before framing up their tender.

### 2.0 SITE PARTICULARS

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to nature of work, site conditions, means of access to the site etc. Non-familiarity with the site conditions will not be considered a reason either for extra claims or for not carrying out the work in strict conformity with the CPWD specifications. For site visit and any clarification / information/Assistance, the intending tenderers may contact General Manager , NSIC Technical services centre, Aji Industrial area, Bhavanagar road, Rajkot, Gujarat- 360 003.

### 3.0 SUBMISSION OF TENDER

- The expression “Tender Notice” referred to in the Tender Documents shall be deemed to include any Notice / Letter Inviting Tender with respect to the work forming the subject matter of the documents and vice-versa.
- The tender complete in all respects shall be submitted along with Earnest Money as stipulated in the Notice / Letter Inviting Tender ONLY. Tenders without Earnest Money Deposit will be out rightly rejected.

*Tenders shall be submitted in two separate sealed envelopes Super scribing the following: -*

#### ENVELOPE – I (TECHNICAL BID)

Name of work : Construction of sump and control room for solar pump testing facility at NSIC Technical Services Centre, Rajkot, Gujarat- 360 003

Tender no. :Ref: NSIC/TSC/RAJ/SPTL/CIV.WORK/2020-21/01 Date: 24.08.2020

Due date & time of opening : 15.09.2020 at 3.30 PM

Addressed to :General Manager , NSIC Technical services centre, Aji Industrial area, Bhavanagar road, Rajkot, Gujarat- 360 003.

From:  
Name & Address of the tenderer

This envelope shall contain the following: -

- EMD should be in the form of Demand Draft drawn on a scheduled/nationalized bank in favour of “NSIC Ltd.” payable at Rajkot. Cheque will not be accepted. The money receipt issued by NSIC regarding purchase of tender document also to be enclosed in this envelop-I. For Tender documents downloaded from website, a Demand Draft / Bankers cheque of Rs. 1,180/- (Rupees one thousand one hundred and eighty only) (non-refundable) including GST towards the cost of tender documents is to be enclosed in envelop –I.
- Certificates / Documents of work experience details of one work of 80% or two works each 50% or three works each 40% of the estimated cost put to tender executed by the bidder during last five years, on the basis of which bidder wishes to get qualified and copies of supporting work orders, schedule of quantities and completion certificate should be enclosed. **In case of completion certificate issued by the private institutes, TDS certificate should also be enclosed.**
- Certificate of Registration for GST.



- Partnership Deed in case of partnership firm and Articles of Association in case of limited Company.
- Power of Attorney in favour of person who has signed the tender documents. In case of company, the authority to sign the tender is to be given under Board resolution.
- Copies of PAN/TAN card.

## ENVELOPE – II

## (PRICE BID)

Name of work : Construction of sump and control room for solar testing facility at NSIC Technical Services Centre, Rajkot, Gujarat- 360 003

Tender no. : **Ref: - NSIC/TSC/RAJ/SPTL/CIV.WORK/2020-21/01** **Date: 24.08.2020**

Due date & time of opening :

Addressed to : General Manager , NSIC Technical services centre, Aji Industrial area,  
Bhavanagar road, Rajkot, Gujarat- 360 003.

From: Name & address of the tenderer

**NOTE: Envelope-I** shall contain all the documents related to eligibility criteria, earnest money deposit, terms-conditions of tender documents etc. except BOQ. **Envelope-II** shall contain only price bid / BOQ to be charged by the tenderers for execution of the work. It is to be noted that the **Envelope-II** shall contain only **PRICES** and no conditions i.e. deviations / assumptions / stipulations / clarifications / comments / any other request whatsoever. Conditional offers will be rejected.

## 4.0 QUALIFYING CRITERIA

Tenderers having following valid documents will be technically qualified and considered for opening of their price bid. Technically qualified parties have no right to claim for award of the work. Corporation reserves the right to cancel or award the work to any party/tenderers.

- EMD should be in the form of Demand Draft drawn on a scheduled/nationalized bank in favour of “NSIC Ltd.” payable at Rajkot. Cheque will not be accepted. The money receipt issued by NSIC regarding purchase of tender document also to be enclosed in the envelop-I. For Tender documents downloaded from website, a Demand Draft / Bankers cheque of Rs. 1,180/- (Rupees one thousand one hundred and eighty only) (non-refundable) including GST towards the cost of tender documents is to be enclosed in envelop –I.
- Certificates / Documents of work satisfactorily completed (i) Three similar works costing not less than Rs. 26,93,600/- each, or (ii) Two similar works costing not less than Rs.33,67,000/- each or (iii) One similar work costing not less than Rs.53,87,200/- during last five years ending 30.07.2020, on the basis of which bidder wishes to get qualified and copies of supporting work orders, schedule of quantities and completion certificate should be enclosed. **In case of completion certificate issued by the private institutes, TDS certificate should also be enclosed.**
- Certificate of Registration for GST.
- Partnership Deed in case of partnership firm and Articles of Association in case of limited Company.
- Power of Attorney in favour of person who has signed the tender documents. In case of company, the authority to sign the tender is to be given under Board resolution.
- Copies of PAN/TAN card.



**5. ABNORMAL HIGH AND LOW RATES**

The tenderer is expected to quote rate for each item after careful analysis of costs involved for the performance of the complete item considering technical CPWD specifications and conditions of contract. This will avoid a loss of profit or gain in case of curtailment or change of specifications for any item. If it is noticed that the unit rates quoted by the Tenderer for any items are usually high or unusually low, it will be sufficient cause for rejection of the tender unless the Corporation is convinced about the reasonableness of the unit rates on scrutiny of the analysis for such unit rate to be furnished by the tenderer on demand. Notwithstanding anything there in stated, the rates once accepted by the Corporation shall be final and shall not be subject to any change either on account of un-workability of unit rates or on any other ground whatsoever.

**6. DEVIATIONS TO TENDER CLAUSES**

Tenderers are advised to submit the tender strictly based on the terms and conditions and specification contained in the Tender Documents and not to stipulate any deviations. Conditional tenders are liable to be rejected.

**7. VALIDITY OF OFFER**

Tender submitted by tenderers shall remain valid for acceptance for a minimum period of 120 days from the date of opening of the tenders. The tenderers shall not be entitled during the said period of 120 days, to revoke or cancel their Tender or to vary the Tender price given or any term thereof, without the consent in writing of the Owner. In case of tenderers revoking or canceling their tenders or varying any terms & price of an item in regard thereof without the consent of owner in writing, Corporation shall reject their tender forfeiting the Earnest money paid by them along with their tender without giving any notice.

**8. AWARD OF WORK**

Corporation reserves the right to split the job into two or more parts and to award the work to separate agencies/contractors. Work shall be awarded to the lowest bidder, subject to the work experience and fulfillment of other terms & conditions and CPWD specifications

**9. ACCEPTANCE / REJECTION OF TENDER**

- i). Corporation does not bind itself to accept the lowest tender.
- ii). Corporation also reserves the right to accept or reject any tender in part or full without assigning any reason whatsoever.
- iii). Corporation also reserves the absolute right to reject any or all the tenders at any time solely based on the past unsatisfactory performance by the bidder(s) the opinion/decision of NSIC regarding the same shall be final and conclusive.

**10. CORRECTIONS;**

No corrections or overwriting will be entertained in schedule of rates by using correcting fluid. All correction in the schedule of rate should be made by penning through the error and writing the corrected figure / words in legible handwriting by the side of correction duly initialed with date and stamped .

**11. FIRM RATES**

**The rates quoted by bidder shall remain firm till completion of all works even during the extended period, if any, on any account whatsoever. It may be noted that no deviation on this account will be acceptable and offer not containing firm price shall not be considered.**

**12.** It will be obligatory on the part of the tenderer to sign the tender documents for all the components & parts. After the work is awarded, he will have to enter into an agreement on proforma to be provided by the Corporation for work awarded, on a non-judicial stamp paper of requisite value at his own cost within ten days from date of receipt of acceptance work order.

**13.** Any addendum/ corrigendum issued shall form a part of the tender document. There will not be any press notification on amendment/ corrigendum. The purchasers of the tender document/ the prospective tenderers are required to visit NSIC weblink- [www.nsic.co.in/tender/current-tender.aspx](http://www.nsic.co.in/tender/current-tender.aspx) and CPP Portal for all such amendments/ corrigenda to NIT as well as the tender document.

**General Manager  
NSIC- TSC, Rajkot**





## GENERAL CONDITIONS OF CONTRACT

1. Where the context so requires, words importing the singular only also include the plural and vice versa.
2. Corporation shall mean 'The National Small Industries Corporation Ltd. (A Government of India Enterprise) "NSIC Bhawan, Okhla Industrial Estate, New Delhi – 110020 and shall include their legal representatives, successors and permitted assigns.
3. **Definition**
  - a) The 'Contract' means and includes the documents forming the tender and acceptance thereof together with the documents referred to therein including the conditions, the CPWD specifications, designs, drawing and instructions issued from time to time by the 'Engineer-in-charge' the formal agreement executed between the Corporation and the Contractor, and all these documents taken together shall be complementary to one another.
  - b) The 'Site' shall mean the land and / or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract.
  - c) The 'Contractor' shall mean the individual or firm or company, whether corporate or not, undertaking the works and shall include the legal personal representative or such individual or the persons composing such firm or company and the permitted assignee of such individual or firm or company.
  - d) The 'Competent Authority' means the Chairman cum Managing Director of the Corporation and his successors.
  - e) The Engineer-in-charge means the Technical Officer of the Corporation, as the case may be who shall supervise and be the In-charge of the works.
  - f) The General Manager means the officer who holds the charge of that post in the Corporation at NSIC Technical Services Centre, Aji Industrial area, Bhavanagar road, Rajkot, Gujarat-360 003 during the currency of this agreement, and shall be the Contract signing Authority.
  - g) 'IS Specification' means the Specification of latest edition with amendments, if any, up to time of receipt of tender by Corporation issued by the Bureau of Indian Standards as referred to in the specifications and / or work orders.
  - h) The 'Contract Sum' means the sum agreed, or the sum calculated in accordance with the prices accepted by the NSIC in the tender and / or the contract / negotiated rates payable on completion of the works.
  - i) The 'Final Sum' means the amount payable under the Contract by the Corporation to the Contractor for the full and entire execution and completion of works, in time.
  - j) The 'Date of Completion' is the date / date(s) for completion of the whole works, set out in the tender documents, or any subsequently amended by the Corporation.
  - k) A 'Week' means seven days without regard to the number of hours worked or not worked in any day in a week.
  - l) 'Excepted Risks' are risks due to riots (otherwise than among contractor's employees) and civil commotion (in so far as both these are uninsurable ) war (whether declared or not), invasion act of foreign enemies, hostilities civil war, rebellion, revolution, insurrection military or usurped power, Acts of God, such as earthquake, lightning, unprecedented floods and other causes over which the contractor has no control and accepted as such by the Competent Authority or causes solely due to use or occupation by the 'Corporation' of the part of works in respect of which a certificate of completion has been issued.



- m) 'Urgent works' shall mean any urgent measures which in the opinion of the Engineer-in-charge, become necessary during the progress of the work to obviate any risk or accident or failure or which become necessary for security.
- n) The 'Works' shall mean the works to be executed in accordance with the contract or part(s) thereof as the case may be and shall include all extra or additional, altered or instituted works or temporary and urgent works as required for performance of the contract.

#### **4. Works to be carried out:**

The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labour, materials, tools, plant, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of Quantities shall, unless otherwise stated, be held, to include wastage on materials, carriage and cartage, carrying in return of empties hoisting, setting, fitting and fixing in position and all other labour necessary in and for the full and entire execution and completion as aforesaid in accordance with good practice and recognized principles.

#### **5. Inspection of Site:**

The Contractor shall inspect and examine the Site and its surrounding and shall satisfy himself before submitting his tender as to the nature of the ground and subsoil (so far as is practicable), the form and nature of the Site, the quantities and nature of works and material necessary for the completion of the Works and the means of access to the Site, the accommodation he may require and in general shall himself obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect this tender. No extra charges consequent on any misunderstanding or otherwise shall be allowed.

#### **6. Sufficiency of Tender:**

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

#### **7. Discrepancies and Adjustment of Errors:**

The several documents forming the contract are to be taken as mutually explanatory of one another:

7.1(A) In the case of discrepancy between Schedules of quantities, CPWD specifications and / or the Drawings, the following order of preference shall be observed.

- a. Bill of Quantity
- b. Special condition of contract (SCC)
- c. General Condition of Contract (GCC)

7.1(B) If there are varying or conflicting provisions made in any one documents forming part of the Contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document.

7.2 Any error in description, quantity or rate in Schedule of Quantities or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the Works comprised therein according to drawings and CPWD specifications or from any of his obligations under the Contract.

7.3.1 Inconsistencies/ Ambiguities in the price bid (schedule of quantities) shall be dealt with in accordance with the following rules: -

- a) Since this is an Item Rate Tender, only rates quoted shall be considered. Any tender containing percentage below/ above the rates is liable to be rejected.
- b) Rates quoted by the tenderer in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the tenderer shall be taken as correct.



- c) Where the rates quoted by the tenderer in figures and words tally, but the amount is not worked out correctly, the rates quoted by the tenderer shall be taken as correct and not the amount.
- d) Where rate(s) of item(s) has been quoted in figures leaving the words blank or vice versa, but the amount is not worked out as per the rate(s) quoted, the rates quoted by the tenderer (either in figures or words) shall be taken as correct and not the amount.
- e) In the event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the contractor has included the cost of this/ these item(s) in other items and rate for such item(s) shall be considered as zero and work will be required to be executed accordingly.

## 8. Security Deposit:

Total security deposit shall be 10% of the accepted tender cost and shall be deposited/deducted by/from the contractor as following: -

### a) Initial Security Deposit:

Contractor will deposit initially a five percent (5%) of the accepted tender cost as an initial security deposit within ten (10) days of receipt of the letter of intent/notification of acceptance of the tender by him. The earnest money deposited shall be converted into initial security deposit.

### b) Balance Security Deposit

Balance five per cent (5 %) will be deducted @ 10% from each running bill till the overall deducted security deposit (Including initial security deposit) reaches to 10% of value of tender. However, if the value of tender i.e. actual execution exceeds the accepted value of tender, further deduction shall be effected @ 10% (Ten percent) of the value in excess of the accepted value of the Tender from running bills and final bill. Similarly, if the value as per actual execution is less than the tender value, the excess deducted amount shall be refunded to the CONTRACTOR along with final bill.

- 8.1 **Refund of Security deposit:** One half of the Security deposit refundable to the Contractor worked out on the basis of the value of work completed shall be refunded to the Contractor on the Engineer-In-Charge certifying in writing that the work has been completed satisfactorily subject to furnishing bank/ performance guarantee of equivalent amount.
- 8.2 On expiry of the Defects Liability Period Engineer-In-Charge shall, on demand from the Contractor, refund to him the remaining portion of the security deposit provided the Engineer-in-Charge is satisfied that there is no demand outstanding against the Contractor.
  - a. No interest shall be payable to the contractor against the Security Deposit furnished / recovered from the contractor, by the Corporation.

## 9. Deviations/Variations Extent & Pricing:

- 9.2.1 The Contract signing Authority shall have power (i) to make alteration in, omissions, from or additions to, or substitutions from the CPWD specification, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the Site or for any other reasons, and the Contractor shall be bound to carry out the Works in accordance with any instructions given to him in writing signed by The Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the Contract as if originally provided therein and any altered, additional or substituted work which the contractor may be carrying out on the same conditions in all respects including price on which he agreed to do the main work. Any alterations, omissions additions or substitutions ordered by the Engineer-In-Charge which in the opinion of the contractor changes the original nature of the Contract, he shall carry it out and the rates for such additional, altered or substituted work shall be determined by the Engineer-in-Charge as per clause 10 (i) to (iii) here under of the tender document.
- 9.2.2 The time of completion of the works shall in the event of any deviations resulting in additional cost over the Contract Sum being ordered be extended as follows if requested by the Contractor.



- a) In the proportion which the additional cost of the altered additional or substituted work, bears to the original Contract sum; plus.
- b) 25% of the time calculated in (a) above or such further additional time as may be considered reasonable by the Engineer-in-Charge.

**10. Rates for Extra/Additional Items**

- i) If the rate for additional, altered or substituted item of work specified in the Schedule of Quantities, then the Contractor shall carry out the additional, altered or substituted item at the same rate.
- ii) If the rate for any altered, additional or substituted item of work is not specified in the schedule of Quantities the rate for that item shall be derived from the rate for the nearest similar item specified therein.
- iii) If the rate for any altered, additional or substituted item of work cannot be determined in the manner specified in sub-para (i) and (ii) above, the contractor shall within 7 days of the receipt of the order to carry out the said work, inform the Engineer-in-Charge under advice to the Accepting Authority of the rate which he proposes to claim for such item of work, supported by analysis of the rate claimed, and the Engineer-in-Charge shall, within One month thereafter, after give due consideration to the rate claimed by the Contractor determine the rate on the basis of market rate(s). In the event of the contractor failing to inform the Engineer-in-Charge within the stipulated period of time, the rate which he proposes to claim, the rate for such item shall be determined by the Engineer-in Charge on the basis of market rate(s) and shall be final.

**11. Suspension of Works:**

- a) The contractor shall, on receipt of the order in writing of the Engineer-in-Charge, suspend the progress of the works or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary for any of the following reasons:
  - i) On account of any default on part of the Contractor; or
  - ii) For proper execution of the Works or part thereof for reasons other than the default of the Contractor; or
  - iii) For safety of the works or part thereof. The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer-in-Charge.
- b) If the suspension is ordered for reasons (ii) and (iii) in sub-para (a) above. The Contractor shall be entitled to an extension of the time equal to the period of every such suspension plus 25%. No financial compensation for such suspension shall be admissible to the contractor.

**12. Time and Extension for Delay:**

The time allowed for execution of the works as specified in the Appendix or the extended time as approved by NSIC in accordance with these conditions shall be the essence of the Contract. The execution of the works shall commence from the 10<sup>th</sup> day after the date on which the Corporation issues written orders to commence the work or from the date of handing over of the site, whichever is earlier. If the Contractor commits default in commencing the execution of the work as aforesaid, Corporation shall without prejudice to any other right or remedy be at liberty to forfeit the earnest money absolutely.

- 12.1 As soon as possible after the Contract is concluded the Engineer-in-Charge and the Contractor shall agree upon a Time and Progress Chart. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades or sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the Contract Documents.



12.2 If the work be delayed by

- (a) Force majeure or
- (b) Abnormally bad weather or
- (c) Serious loss or damage by fire, or
- (d) Civil commotion, local combination of workmen strike or lockout, affecting any of the trades employed on the work, or
- (e) Delay on the part of other contractors or tradesmen engaged by Corporation in executing work not forming part of the contract, or
- (f) Any other cause which, in the absolute discretion of the authority mentioned in Appendix is beyond the Contractor's control;

Then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the Works.

12.3 Request for extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay. The Contractor may also if practicable, indicate in such request the period for which extension is desired.

12.4 In any such case the competent authority may give a fair and reasonable extension of time for completion of the work. Such extension shall be communicated to the contractor by the Engineer-in-Charge and no compensation whatsoever for the extended period, if any shall be applicable/ payable.

13. The Contractor shall arrange, at his own expense, all tools, plant and equipment hereafter referred to as (T & P) labour, P.O.L. & electricity required for execution of the work.

#### **14. FORCE MAJEURE**

Any delays in or failure of the performance of either party herein shall not constitute default hereunder or give rise to any claim for damages, if any, to the extent such delays or failure of performance is caused by occurrences such as Act of god or the public enemy; expropriation or confiscation of facilities by Government authorities, or in compliance with any order or request of any Governmental authorities or due acts of war, rebellion or sabotage or fires, floods, explosions, riots or illegal joint strikes of all the workers of all the contractors.

#### **15. MATERIALS**

1. All materials to be provided by the Contractor shall be in conformity with the CPWD specifications laid down in the contract and the Contractor shall, if requested by the Engineer-in-Charge, furnish proof to the satisfaction of Engineer-in-Charge in this regard.
2. The contractor shall indemnify the Corporation, its representatives or employees against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties or other charges which may be payable in respect of any article or material or part thereof included in the Contract. In the event of any claim being made or action being brought against the Corporation or any agent, servant or employee of the Corporation in respect of any such matters as aforesaid, the Contractor shall immediately be notified thereof.
3. All charges on account of octroi, terminal or GST and other duties on material obtained for the Works from any source shall be borne by the Contractor.



4. The Engineer-in-Charge shall be entitled to have tests carried out as specified as per relevant standard code of practice for any materials supplied by the Contractor even for those for which, as stated above, satisfactory proof has already been furnished, at the cost of the Contractor and the Contractor shall provide at his own expense all test facilities which the Engineer-in-Charge may require for the purpose. The cost of materials consumed in tests shall be borne by the Contractor.
5. Stores and Materials required for the works, brought by the Contractor, shall be stored by the Contractor only at places approved by the Engineer-in-Charge. Storage and safe custody of material shall be the responsibility of the contractor.
  - i. Corporation's officials concerned with the Contract shall be entitled at any time to inspect and examine any materials intended to be used in or on the works, either on the Site or at factory or workshop or other place(s) where such materials are assembled, fabricated or at any place(s) where these are lying or from where these are being procured and the contractor shall give such facilities as may be required for such inspection and examination.
  - ii. All materials brought to the Site shall become and remain the property of the Corporation and shall not be removed off the Site without the prior written approval of Engineer-in-Charge of the Corporation. But whenever the works are finally completed the Contractor shall, at his own expense forthwith, but with the prior approval from the Corporation, remove from the Site all surplus materials originally supplied by him and upon such removal the same shall revert in and become the property of the contractor. However before giving any approval as aforesaid, the corporation shall be entitled to recover or adjust any amount given as advance to the Contractor.

#### **16. Labour laws and payment of wages to be complied:**

The contractor shall comply with the labour laws in force. No labour below the age of eighteen years shall be employed on the works. The tenderer should make their own arrangement for the assign all labour trained in the particular field of work preferably local.

The contractor shall obtain a valid license under the Contract Labour (R&A) Act, 1970 and the Contract Labour (R&A) Central Rules, 1971, before the commencement of the work, and continue to have a valid license till completion of work. The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986. The contractor shall comply with the provisions of the Payments of wages act, 1936, Minimum wages Act, 1948, Employment liability Act, 1938, Workmen's compensation act 1923, Industrial dispute Act, 1947, the factories act 1948, mate benefit act 1961 and any statutory amendments or re-amendments thereof for the time being in force.

In respect of all laborers directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange the safety provision as per safety code framed from time to time by statutory authorities and shall at his own expense provide for all facilities in connection therewith. In case, the contractor fails to make arrangement and provide necessary facilities as aforesaid he shall be responsible for any compensation for each default and in addition the Engineer-In-Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

***The contractor shall be fully liable for compliance of EPF or ESI of the labours/workmen deployed by them for carrying out the work as per prevailing Central or State government norms and the Corporation has nothing to do with the same. Corporation shall not be responsible for any liability/claims whatsoever in this regard. Further as and when demanded by the Corporation, the contractor shall submit the proof of deductions/ deposits of such liabilities of their labors/ workmen engaged in the work to the Corporation. In case of default, the Corporation may deduct the payments against these liabilities from the bills of the contractor or may stop the payment of the bill till such time the compliance is proved y the contractor.***

***The ESI and EPF contributions on the part of employer in respect of this contract shall be paidby the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-charge to the contractor on actual basis. The applicable and eligible amount of EPF & ESI shall***



*be reimbursed preferably within 7 days but not later than 30 days of submission of documentary proof of payment provided same are in order.*

#### **17. Liquidated Damages for Delay**

- 17.1 Time is essence of the contract. In case the CONTRACTOR fails to complete the whole work within the stipulated period, and clear the site, he shall be liable to pay liquidated damages @ 0.5% (One Half of one percent only) of the value of contract per week and or part thereof of the delay subject to a maximum of 10% (ten percent only) of the value of the contract. The parties agree that this is a genuine pre-estimate loss / damage which will be suffered on account of delay on the part of the Contractor and the said amount will be payable on demand without there being any proof of the actual loss of damages caused by such delay.
- 17.2 The amount of Compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the Corporation.

#### **18. Defects Liability Period:**

The Contractor shall be responsible to make good and remedy at his own expense within defect liability period of one year from the date of completion of the work in all respect.

#### **19. Contractor's Liability and Insurance**

- From commencement to completion of the works, the Contractor shall take full responsibility, care of and precautions to prevent loss or damage and to minimize loss or damage to the greatest extent possible and shall be liable for any damage or loss that may happen to the Works or any part thereof from any cause whatsoever (save and except the Excepted Risks) and shall at his own cost repair and make good the same so that, at completion, the works shall be in good order and conditions and in conformity in every respect with the requirements of the Contract and instructions of the Engineer-in-Charge.
- 19.1. In the event of any loss or damage to the Works or any part thereof or to any material or articles at the Site from any of the Excepted Risks the following provisions shall have effect:
- a. The Contractor shall, as may be directed in writing by the Engineer-in-Charge, remove from the site any debris and so much of the works as shall have been damaged.
  - b. The Contractor shall, as may be directed in writing by the Engineer-in-Charge, proceed with the completion of the works under and in accordance with the provisions and Conditions of the Contract, and
- 19.2 Provided always that the Contractor shall not be entitled to payment under the above provisions in respect of such loss or damage as has been occasioned by any failure on his part to perform his obligations under the Contract or not taking precautions to prevent loss or damage or minimize the amount of such loss or damage.
- 19.3 The Contractor shall indemnify and keep indemnified the Corporation against all losses and claims for injuries or damage to any persons or any property whatsoever which may arise out of or in consequence of the construction and maintenance of works and against all claims, demands proceedings, damages costs, charges and expenses whatsoever in respect of or in relation thereto. Provided always that nothing herein contained shall be deemed to render the Contractor not liable for or in respect of or to indemnify the Corporation against any compensation or damage caused by the Excepted Risks.
- 19.4 Before commencing execution of the work, the Contractor shall, without in any way limiting his obligations and responsibilities under this condition, obtain and deposit with the Corporation-Contractors "All Risk Policy" and "Third Party" Insurance policy.
- 19.5 The Contractor shall at all times indemnify the Corporation against all claims, damages or compensation under the provisions of Payment of Wages Act, 1936, Minimum Wages Act. 1948, Employer's Liability Act, 1938 the Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947 and the Maternity Benefit Act. 1961 or any modifications thereof or any other law relating thereto and rules made there under from time to time.
- 19.6 The Contractor shall prove to the Engineer-in-Charge from time to time that he has taken all the insurance polices referred to above and has paid the necessary premiums for keeping the policies alive till completion of the work.



- 19.7. All statutory deductions as applicable like TDS, Works Contract Tax Act etc shall be made from the due payment of the contractor.
- 19.8 No claim for interest will be entertained by the corporation in respect of any balance payments or any deposits which may be held up with the corporation due to any dispute between the corporation and contractor or in respect of any delay on the part of the corporation in making final payment or otherwise.
- 19.9 The contractor shall ensure that no materials/wastes/plant , equipment etc. are dumped at the site. In case any of the above items are dumped, the contractor shall clear the same from the site by or before completion of the work at his own cost or otherwise NSIC shall clear the same work at the contractor's risk and cost after serving 7 days notice.
- 19.10 The contractor will have to make their own arrangement for facilitating movement of labour to work site and back. Facilities are to be provided to labourers as per statutory provision and the same shall not entail or attract any extra cost to NSIC.

**20. Safety Code:**

- 20.1 The Contractor shall at his own expense arrange for the safety provisions as appended to these conditions or as required by the Engineer-in-Charge, in respect of all labour directly or indirectly employed for performance of the works and shall provide all facilities in connection therewith. In case the Contractor fails to make arrangements and provide necessary facilities as aforesaid the Engineer-in-Charge shall be entitled to do so and recover cost thereof from the Contractor.
- 20.2 The contractor shall provide and maintain at his own expenses guards, fencing and hatching, when and where necessary or required by the Engineer-in-Charge for the protection of the works or for the safety and convenience of those employed on the works or the public.
- 20.3 The corporation shall not be liable for any accident, injury or for any other mishap caused to him/them/their employees/agents and labour employed by the contractor and for any kind of damage to the works during the execution of the contract or work done. For any kind of such injury or loss caused to any person/persons mentioned herein above or damages to the work, the contractor shall be exclusively liable.

**21. Cancellation of Contract in Full or in Part:**

- 21.1 If the Contractor:
- a. At any time makes defaults in proceeding with the Works with due negligence and continues to do so even after a notice in writing of 7 days from the Engineer-in-Charge; or
  - b. Commits default in complying with any of the terms and conditions of Contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge; or
  - c. Fails to complete the works or items of work on or before the date(s) of completion, and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer-in-Charge; or
  - d. Enters into a contract with the Corporation in connection with which commission has been paid to any person(s) or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the term of payment have previously been disclosed in writing to the Accepting Authority/Engineer-in-Charge; or
  - e. Offers or gives or agrees to give to any person in Corporation's service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or for bearing to do or having done any act in relation to the abstention or execution of this or any other Contract for the Corporation or
  - f. Obtains a Contract with the Corporation as a result of ring tendering or other non-bonafide methods of competitive tendering; or





- g. Being an individual or any of its partner (in case of the Contractor is a partnership firm) at any time is adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any insolvency Act for the time being in force or make any conveyance or assignment of his affective or composition or arrangement of the benefit of his creditors or purport so to do, or if any application be made under any insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors; or
- h. Being a company, passes a resolution or the Court makes an order for liquidation of its affairs, or a receiver or manager on behalf of the debenture holders is appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or manager; or
- i. Assigns, transfers sublets (engagement of labour on a piece-work basis or of labour with materials not be incorporated in the work shall not be deemed to be subletting) or attempts or assign, transfer or sublet the entire works or any portion thereof without the prior written approval of the Accepting Authority.
- 21.2 The Competent Authority may, without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to the Corporation by written notice cancel the contract as a whole or in part as it may deem appropriate.
- 21.3 The Competent Authority shall on such cancellation, be entitled to:
- Take possession of the site and any materials, construction plant, implements, stores, etc., thereon; and/or
  - Carry out the incomplete work by any means at the risk and cost of the Contractor.
- 21.4 On cancellation of the Contract, in full or in part, the Accepting Authority shall determine the quantum of amount, if any, recoverable from the Contractor for completion of Works or part of the works or in case the works or part of the works is not completed, the loss or damage suffered by the Corporation. In determining the amount credit shall be given to the Contractor for the value of the work, if any, executed by him up to the time of cancellation of the contract, the value of contractors material taken over and incorporated in the work and use of tools & tackle and machinery belonging to the Contractor.
- 21.5 Any excess expenditure incurred or to be incurred by the Corporation in completing the Works or part of the Works or the excess loss or damages suffered or may be suffered by the Corporation as aforesaid after allowing such credit shall be recovered from any money due to the Contractor or any account, and if such money is not sufficient the Contractor shall be called upon in writing to pay the same within 30 days.
- 21.6 If the Contractor shall fail to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the Contractor's unused materials, constructional plant, implements, temporary buildings, etc. and apply the proceeds of sale thereof towards the satisfaction of any sums due from the Contractor under the contract and if thereafter there be any balance outstanding from the Contractor, it shall be recovered in accordance with the provisions of the Contract.
- 21.7 Any sums in excess of the amounts due to the Corporation on unsold materials, constructional plant, etc. shall be returned to the Contractor, provided always that if cost or anticipated cost of the completion by the Corporation of the works or part of the works is less than the amount which the Contractor would have been paid had he completed the works or part of the works such benefit shall not accrue to the Contractor.
- 22. Liability for Damage, Defects or Imperfections and Rectification thereof:**
- 22.1 If the Contractor or his workmen or employees shall injure or destroy any part of the building in which they may be working or any building, road, fence etc, continuous to the premises on which the work or any part of it is being executed, or if any damage shall happen to the work while in progress the Contractor shall upon receipt of a notice in writing from Engineer – in-charge in that behalf, make the same good at his own expense. If it shall appear to the Engineer-in-Charge or his Representative at any time during construction or re-construction or prior to the expiration of Defects Liability Period, that any work has been executed with unsound, imperfect or unskilled workmanship or that any materials or articles provided by the Contractor, the contractor shall, upon receipt of a notice in writing in that behalf from the Engineer-in-Charge, 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, and/or remove the materials or articles at his own expense, notwithstanding that same may have been inadvertently passed, certified and paid for and in the event of non-compliance his notice aforesaid, the Engineer-in-Charge may rectify



or remove and re-execute the work and/or remove and replace with others the materials or articles complained of as the case may be, by other means at the risk and expense of the Contractor.

- 22.2 In case of repairs and maintenance works, splashes and dropping from white washing, painting, etc. shall be removed and surfaces cleaned simultaneously with completion of these items of work in individual rooms, quarters or premises, etc. where the work is done, without waiting for completion of all other items of work in the contract. In case the Contractor fails to comply with the requirements of this condition, the Engineer-in-Charge shall have the right to get the work done by other means at the cost of the Contractor. Before taking such action, however, the Engineer-in-Charge shall give three days notice in writing to the Contractor.

**23. Urgent Works:**

If any Urgent work (in respect whereof the decision of the Engineer-in-Charge shall be final and binding) becomes necessary and Contractor is unable or unwilling at once to carry it out, the Engineer-in-Charge may by his own or other workpeople carry it out, as he may consider necessary. If the urgent work shall be such as the Contractor is liable under the contract to carry out at his expenses incurred on it by the Corporation shall be recoverable from the Contractor and be adjusted or set off against any sum payable to him.

**24. PAYMENTS:**

- 24.1 Payment shall be released as per the quantum of work executed in accordance to the instruction and drawings issued to the contractor. Any work executed by the contractor in violation to the CPWD specifications, drawings and direction of Engineer in charge shall constitute breach of agreement and shall not qualify for the measurement and payment. The measurement shall be jointly recorded by the contractor and representative of NSIC. If Contractor intends to submit interim **R.A Bills these should not be less than Rs 10.00 Lacs value of work executed.** All other statutory deductions and Security deposit as applicable shall be effected from each running bills.

24.2 No escalation will be paid even in extended period, if any.

- 24.3 All statutory deductions as applicable like TDS, and other taxes as applicable shall be made from the due payment of the contractor.

**25. MOBILISATION ADVANCE:**

No mobilization advance whatsoever shall be paid for carrying out this work.

**26. ARBITRATION Clause:-**

- 26.1 All questions and disputes relating to the meaning of the words, terms, CPWD specifications, operations, and instructions, mentioned in this contract and as to the quality of workmanship or performance of the contractor any other question, claim, right, matter, or thing whatsoever in any way arising out of or relating to the contract, CPWD specifications, operating instructions, orders or these conditions; or otherwise concerning the performance of the contract, the execution or failure to execute the same whether arising during the existence of the contract or after the termination of the contract, the same shall be referred to the sole arbitrator appointed by the Chairman-Cum-Managing Director of the Corporation.

- 26.2 The Arbitrator shall have power to call for such evidence by way of affidavits or otherwise as he thinks proper and it shall be the duty of the parties hereto to do or cause to be done, all such things as may be necessary to enable the Arbitrator to make the award without any delay. The Arbitrator shall give a separate award in respect of each dispute or difference referred to him. The venue of arbitration shall be at New Delhi. The Award of the Arbitrator shall be final, conclusive and binding on all parties to the contract.



26.3 The law under the Arbitration and Conciliation Act, 1996 as amended by the Arbitration and Conciliation (Amendment) Act 2015 shall be applicable to such proceedings.

The cost of arbitration shall be borne by the parties to the dispute, as may be decided by the arbitrator(s).

26.4 The Courts in the city of New Delhi shall have the exclusive jurisdiction to entertain any application or other proceedings in respect of any disputes arising under this agreement and any award or awards made by the Arbitrator here-in-before can be challenged in the concerned Courts in the aforesaid city only.

**General Manager  
NSIC- TSC, Rajkot**

**SIGNATURE OF THE CONTRACTOR**



## FORM OF TENDER

To  
The General Manager,  
NSIC Technical Service Centre,  
Aji Industrial Area, Bhavanagar Road,  
Rajkot, Gujarat- 360 003.

I/We have read and examined the following documents relating to.....  
.....

**(Name of the Work)**

- (a) Notice inviting tender.
- (b) Instructions to Tenderers
- (c) CPWD specifications
- (d) General Conditions of Contract including Contractors, Labour Regulations, Model Rules for Labour Welfare and Safety Code appended to these conditions together with the amendments thereto if any.
- (e) Special Conditions of contracts, if any.
- (f) Bill of Quantities

I/We hereby tender for execution of the works referred to in the aforesaid documents upon the terms and conditions contained or referred to therein and in accordance in all respects with the CPWD specifications, designs, drawings and other relevant details at the rates contained in Schedule and within the period(s) of completion as stipulated in Appendix.

In consideration of I/We being invited to tender, I/We agree to keep the tender open for acceptance for 120 days from the due date of submission thereof and not to make any modifications in its terms and conditions which are not acceptable to the Corporation.

A sum of Rs 1,34,680/- is hereby forwarded as Earnest Money Deposit in the form of Demand Draft in favour of “NSIC Ltd” payable at Rajkot.

If I/We fail to keep the tender open as aforesaid or make any modifications in the terms and conditions of the tender which are not acceptable to the Corporation, I/We agree that the Corporation shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely and reject the tender.

Should this tender be accepted, I/We agree to abide by & fulfill all the terms conditions of aforesaid document.

If after the tender is accepted, I/we fail to commence the execution of the work as provided in the conditions. I/We agree that Corporation shall without prejudice to any other right or remedy is at liberty to forfeit the said earnest money absolutely and reject the tender.

**Signature of bidder.....**

**Duly authorized to sign the tender**

Dated.....

Witness.....

Date.....

Address.....



- |  |   |  |
|--|---|--|
| 1. Competent Authority   | : | C.M.D. NSIC or his Authorized executives   |
| 2. Earnest money/Security deposit  |   |  |
| a) Estimated cost of the Works;  |   | Rs. 67.34 lacs (Exclusive of GST)  |
| b) Earnest money:  |   | Rs 1,34,680/- in the form of DD /Pay order in favour of "NSIC Ltd" payable at Rajkot |
| c) Security Deposit  |   | 10%  |
| 3. Time allowed for execution of work  |   | 90 days  |
| 3. Authority competent to decide if "any other cause" of delay is beyond contractors control |   | CMD, NSIC or his authorised representative   |
| 5. Liquidated Damaged  |   | 0.5% (half percent) per week subject to a Maximum 10% value of the contract          |
| 6. Defect Liability Period   |   | 12 months from the date of Completion of work in all respect                         |
| 7. Authority competent to reduce compensation  |   | CMD NSIC or his authorized executive.  |



### **SPECIAL CONDITIONS OF CONTRACT (SCC)**

1. During working at site, some restrictions may be imposed by Engineer-in-Charge/Security staff of Corporation or Local Authorities regarding safety and security etc., the contractor shall be bound to follow all such restrictions/ instruction & nothing extra shall be payable on this account.
2. No compensation shall be payable to the contractor for any damage caused by rains lightening, wind, storm, floods Tornado, earth quakes or other natural calamities during the execution of work. He shall make good all such damages at his own cost; and no claim on this account will be entertained.
3. No labour hutment shall be allowed in the premises. All labourers should leave the site after day's work. The security & Watch ward for safeguarding the contractor's materials/work etc. shall be arranged at his cost only.
4. All rates quoted by the bidders shall remain firm for the contract period/extended contract period.
5. If the contractor fails to proceed with the work within the stipulated time as specified from the date of issue of letter of intent/letter to proceed with the work, the Corporation shall forfeit the earnest money deposited by him along with the tender and reject the award of the work.
6. **Execution of Work at Risk & Cost of Contractor:**

The balance work, if any, left to be completed after the determination/ cancellation of the contract as per clause no. 21 of the 'General Conditions of Contract' shall be got executed by the Corporation as stipulated in the said clause at the risk and cost of the contractor and the additional expenditure, if any, incurred by the Corporation in getting the work executed in the manner stated above, the same shall be recovered from the dues of contractor. In case the dues of the contractor are not sufficient, the contractor shall be liable to deposit the excess amount incurred by the Corporation as communicated by the Engineer-in-charge within 30 days of written notice.
7. The work shall be executed in accordance with the latest CPWD specification mentioned in the Schedule of quantity and in case of any discrepancy the CPWD specifications with latest amendments if any, shall be followed. The decision of the Engineer-In-Charge in this regard shall be final and binding upon the contractor.
8. The materials used for carrying out the work shall be of best available quality and the contractor has to carry out the necessary testing as per CPWD specification for its conformity with CPWD specifications and all testing charges shall be borne by the contractor.
9. All the civil works, if required, like fixing of load hooks, making chases in the wall, drilling of holes, fixing of doors and finishing of jambs, providing scaffolding for carrying out complete works shall be arranged by the contractor and making good the damages. Nothing extra on these account shall be considered or paid.
10. The contractor shall be fully responsible for any injury or damage caused to the workmen deployed by him at site for carrying out the work and Corporation has nothing to do with such happenings and in no way shall be held responsible for the same.
11. **The tenderer shall quote their rates exclusive of GST. GST as applicable shall be paid separately.** The party shall submit necessary supporting document for remittance of GST along with the bill.
12. The bidder should note that similar items appear at more than one place in the Bill of Quantity and hence bidder should quote rates for each item carefully. In case of any mismatch in the rates quoted for same item, the lower of the rates quoted for the same item in any section shall be considered for evaluation.
13. The bidder selected for the work shall ensure that the concreting work for the underground tank (sump) is done properly. In case of any leakage, the party shall resort necessary pressure grouting and shall rectified the same free of cost. Party shall also ensure that the underground water tank (sump) is fully leak proof.
14. The selected bidder shall submit design mix from reputed RMC suppliers such as ACC, Ultratech, Lafarge or equivalent for ready mix concrete to be used for work and shall seek prior approval of NSIC before starting the concreting work.



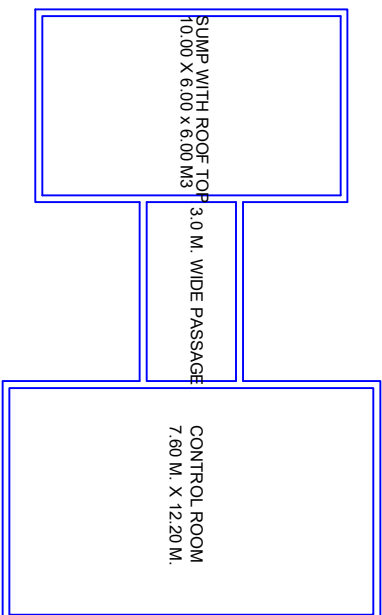
15. The cement shall be used for the work shall be of 43/53 grade.
16. In case of any discrepancy in the CPWD specification, special condition or General Condition of Contract the following order of precedent shall be followed:
  - a. Bill of Quantity
  - b. Special condition of Contract (SCC)
  - c. General Condition of Contract (GCC)
17. All communication should be addressed to General Manager, NSIC Technical Service Centre, NSIC Technical Service Centre, Bhavanagar road, Rajkot, Gujarat- 360 003.

Signature of bidder

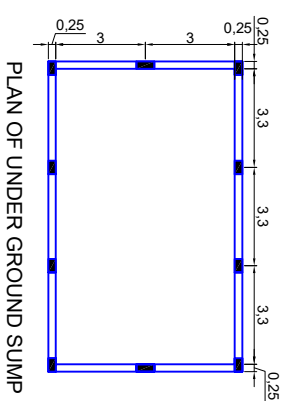
# NSIC TECHNICAL SERVICES CENTER - RAJKOT

## PROPOSED SOLAR PUMP TESTING FACILITY

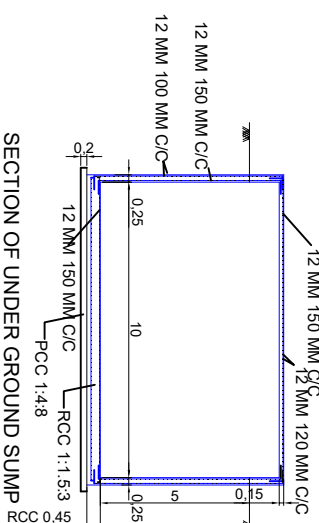
### CONTROL ROOM & SUMP WITH ROOF TOP



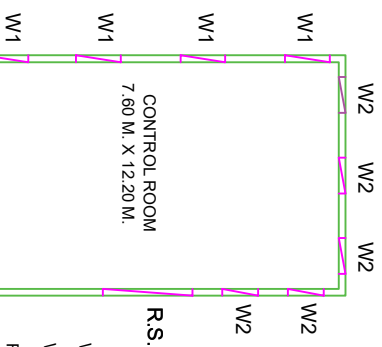
PLAN OF SUMP WITH CONTROL ROOM



PLAN OF UNDER GROUND SUMP

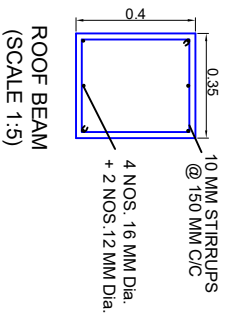


SECTION OF UNDER GROUND SUMP

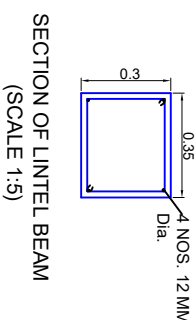


PLAN OF CONTROL ROOM

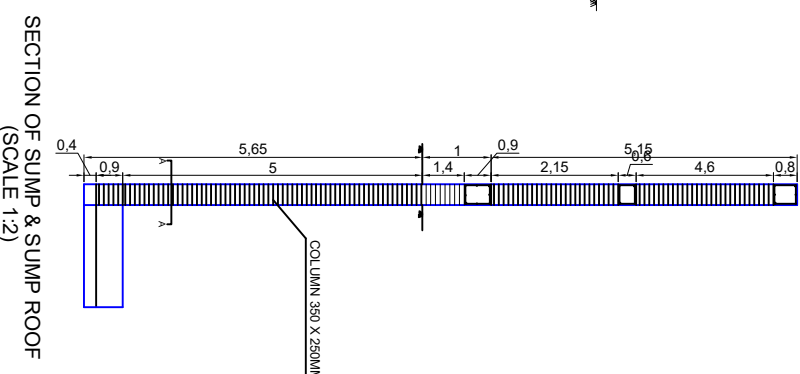
W1-5'0" X 4'6" Feet  
 W2-4'0" X 4'6" Feet  
 R.S.-10'0"X10'0" Feet



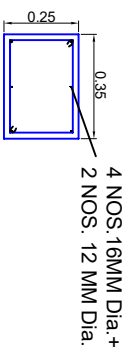
ROOF BEAM  
(SCALE 1:5)



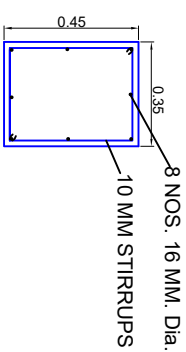
SECTION OF LINTEL BEAM  
(SCALE 1:5)



SECTION OF SUMP & SUMP ROOF  
(SCALE 1:2)



SECTION OF COLUMN  
350 X250 MM  
SECTION A-A  
(SCALE 1:5)



SECTION OF SUMP ROOF BEAM  
(SCALE 1:2)

ALL DIMENSIONS ARE IN METER.





**INDICATIVE LAOUT**

## LIST OF PREFERRED MAKES FOR CIVIL & ELECTRICAL WORKS

(Approved make shall fulfill the public procurement policy of Make in India)

1. The contractor shall obtain prior approval from the Engineer-in-Charge before placing order for any specific material or engaging any of the specialized agencies. The contractor shall make a detailed submittal with catalogues and highlighted proposed specifications, as well as full details of the works executed by the specialized agency, as specified.
2. Wherever applicable, the Engineer-in-Charge may approve any material equivalent to that specified in the tender subject to proof being offered by the contractor for equivalence to his satisfaction.
3. Unless otherwise specified, the brand / make of the material as specified in the item nomenclature, in the particular specifications and in the list of approved materials attached in the tender, shall be used in the work.
4. In case of non-availability of the brand specified in the contract the contractor shall be allowed to use alternate equivalent brand of the material subject to submission of documentary evidence of non availability of the specified brand. The necessary cost adjustments on account of above change shall be made for the material.
5. Sample of all the materials will be used only after approval of the Engineer- in-charge

### **CIVIL WORKS:**

S. No.	Description of Material	Brands Name
1	Anti-Termite Treatment Agency	Pest Control India Ltd, Godrej Pest Control, Capital Pest Control (INDIA) OR Specialized agency filling Criteria as per page No. 7 as per NIT.
2	Water Proofing Agency	New Bharat Water Proofing, Bhagwati Waterproofing, Likproof India Pvt.Ltd. Overseas Waterproofing, NINA Industtis Ltd. OR Specialized agency filling Criteria as per page No. 7 as per NIT.
3	Plant For Ready Mix Concrete	A.C.C., M/s RMC Readymix(India) ,Ultratech Cement Ltd., Lafarge, J.K.
4	OPC/P.P.C. (Cement)	A.C.C., Ultratech Cement Ltd., Ambuja Cement, Jay Pee Cement, Century Cement, J.K Cement, Sanghi Cement, Birla Shakti Cement., Hi-Bond Cement
5	White Cement	J.K. White, Birla White.
6	Water proofing Compound (Liquid)	Pidilite, Struco Excel, CICO, Fosroc
7	Reinforcement Steel	Tisco, Sail, JSPL, RINL, JSW Steel,
	Structural Steel, Steel Section like Angles, Channels, Round / Square Bars.	Tisco, Sail, JSPL, RINL, Any other brand as per CPWD circular.
8	Vitrified / Ceramic Tiles	H & R Johnson, Kajaria, Somany, Asian, Nitco,
9	Hardeners (Liquid)	Ironite, Ferrok, Hardonate.
10	Flush Doors	Kanara Wood and Plywood Industries Ltd. Kenwood, Orient, Kutty.
11	Stainless Steel Screws	Kundan, Arrow, Jindal , Connect Architectural Product Pvt Ltd.

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S. No.	Description of Material	Brands Name
12	Dash Fastners	HILTI, Fisher, Canon, Wurth.
13	Glass	St. Gobain, Modiguard, AIS (ASAHI)
14	Gypsum Board	Saint Gobain, Boral.
15	Cement Concrete Paver Tiles	Super tiles and Marbles Pvt. Ltd., Vyara, Sona, NITCO Tiles Limited, Vinayak
16	Sanitary Ware	Cera, Jaquar, Hindware, Parryware
17	G I Pipe	Surya, Tata, Jindal, Asian
18	RIGID PVC Pipes and Fitting	Supreme, Astral, Prince, Finolex
19	Mirror Glass	Atul, Modiguard.
20	Gully Traps (S.W.)	Perfect, Parry, Cherry.
21	RCC Pipes	Lakshmi, Sood&Sood, Pragati
22	UPVC Pipes/ CPVC Pipes & Fitting	Supreme, Prince, Finolex, Astral
23	Stainless Steel Sinks	Star, Jayna, Nirali
24	CP Brass fillings	Jaquar, Kohler, Cera, Hindware
25	CP Brass, Flush Valve	Jaquar, Zoloto, Leader
26	PVC Flushing Tank	Commander, Parryware, Hindware, Cera.
27	Centrifugally Cast Soil Pipes (ISI Marked)	NECO, BIC, SKF, Kapilansh.
28	UPVC Rain Water Pipes	Finolex, Supreme, Prince
29	Door, Windows Hardware	DORMA, Hafele, GEZE, Godrej, KICH, Harrison
30	PVC Tank	Star, Sintex.
31	Epoxy grout flooring tiles	Leticrete, Ardex Endura.
32	Polymer Modified Cementitious grout	Bal Endura/ Webber/ Myklaticrete/Eco Green
33	Chlorpyrifos / Lindane (for Antitermite treatment)	Essar-Chloro, Dursban, Gibraltar, Bayer
34	Internal & External Paints	Jenson & Nicholson, Berger Paints, Asian Paint, Nerolac, ICI
35	Hermitically sealed performance glass Toughened Glass, DGU	Authorized Fabricators (Modi Guard, Saint Gobain, Tata Asahi, HNG, AIS-Gleverbel, Pilkington)
36	Aluminium Composite Panel (Acp)	Alstrong, Alucobond, Aludecor
37	Metalic False Ceiling	Hunter Douglas, Linder, Armstrong
38	Floor Springs / Dead Lock / Door Closers / Panic Bar	Ozone, Dorma, GEZE, Hafele
39	G.I. Fittings	Unik, R-Brand, Zoloto
40	Spider Fittings	Ozone, Dorma, GEZE, Asha Alboy, Hefele
41	EPDM	Amee Rubber Industries Pvt. Ltd., Bohra Rubber
42	All Type of Silicone	Dow Corning, GE
43	WPC Frames & Shutters	Hardysmith, Ecoste, Alstone, Flexibond
44	Poly Carbonate Sheet	Danpalone, Coxwell, Tuflite.
45	Polyster Film On Glass	Garware, Lumar, LG

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S. No.	Description of Material	Brands Name
46	HEAT Reflective Tiles	HR, Johnson, Pavait
47	Epoxy Flooring	Sika, MYK, BASF, Fosroc, Ardex, Endura, Dubond
48	Composite Precoated Galvanised Steel Panel	Jindal, Mecttec, Sintex, Lloyd

**ELECTRICAL WORKS:**

Accepted Make of Materials			
1	FRLS Wire	:	Polycab/Havells / R R Kabel /Lapp
2	MCBDB/Loose Wire Box	:	Legrand /L&T / C&S/Siemens / Schneider
3	MCB/RCCB	:	Legrand /L&T / C&S/Siemens / Schneider
4	Modular Switch /Socket/TV Socket/Telephone Socket/Box	:	Legrand (Arteor) / MK (Elements) / Schneider (Zencelo)
5	MCCB,( ICS=100% ICU)	:	Legrand /L&T / C&S/Siemens / Schneider
6	GI/MS Pipe (ISI Marked)	:	TATA / Jindal (Hisar)
7	PVC Conduit and accessories (ISI marked)	:	Asian /Precision / AKG / BEC
8	Surface 4' x 1 x 18 – 20 watt & 4' x 2 x 20 Watt LED light fitting	:	Philips / Trilux / Lighting Technology
9	Ceiling fan	:	Crompton / Bajaj / Havells / Usha / Orient
10	Exhaust fan / Fresher Air Fan	:	Crompton / Almonard / Bajaj / Havells
11	Fancy wall Bracket	:	Havells, City - 2 or equivalent to Philips / Crompton
12	LED Bulk head fitting	:	Philips / Trilux / Lighting Technology
13	Mirror light fitting	:	Crompton / Bajaj / Philips
14	Surface Down lighter	:	Philips / Trilux / Lighting Technology
15	2'' x 2'' LED Square fitting Surface	:	Philips / Trilux / Lighting Technology
16	LED Street light fittings	:	Philips / Trilux / Lighting technology
17	LED Flood Light Fitting	:	Philips / Trilux / Lighting technology
18	XLPE Aluminium Cable	:	Polycab/Havells / R R Kabel /Finolex
19	Feeder pillar / Panel	:	Any CPRI Approved
20	PVC Trunking	:	Legrand / MK
21	DWC Pipe	:	Duraline / Rex / Gemini
22	Octagonal Hot Dip Galvanized Pole	:	Bajaj / Valmont / Transrail

**Note:- i)** For any other items not included in the above list, the sample for the same shall be got approved from Engineer-in-Charge before procurement & use in the work.

**ii)** The Engineer-in-charge reserves the right of to add or delete any material and brands in the list of preferred makes of civil/Electrical work.

**iii)** Models of items of all fixtures should be got approved from the Engineer in charge well before placing any order to the OEM/its authorized dealer. The contractor/agency is required to submit all relevant test certificates documents and along with the proposal. The model along with sample should be approved by Engineer-in-charge before placing any order and supply of same to the site. The decision of Engineer-in-charge is binding in this regard and no variation is acceptable.

**iv)** In case the make & model of any item is not in the accepted list, the decision of Engineer- in-charge shall be final and binding.

**Signature of the Contractor with seal**

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(R.L. Shukla)



## PRICE BID

### Bill of Quantity for Construction of sump and control room for solar pump testing facility at NSIC Technical Services centre at Rajkot, Gujarat- 360 003.

Sl no.	DSR Item no.	Description of item	Unit	Qty.	Unit Rate (in Rs)	Unit rate (Amount in Rs.)	TOTAL AMOUNT (in Rs, in figures)
					In figure	In words	
	<b>A</b>	<b>UNDER GROUND SUMP 10M X 6 M X 6M</b>					
1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.					
	2.6.1	All kinds of soil	cum	339.86			
2	2.7	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge.					
	2.7.1	Ordinary rock	Cum	192.38			
	2.7.3	Hard rock (blasting prohibited)	Cum	192.38			
3	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials					
	2.26.1	All kinds of soil	Cum	147.49			
	2.26.2	Ordinary or hard rock	Cum	429.64			
4	2.27	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete	Cum	11.55			
5	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	Cum	15.40			
6	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cum	43.15			

7	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement					
	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cum	49.50			
8	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :					
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	15.30			
	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	Sqm	396.00			
	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	146.00			
9	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					
	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.(Nominal reinforcement for thermal expansion @ 0.3 % of RCC)	Kg	12174.06			
10	13.7	12 mm cement plaster finished with a floating coat of neat cement of mix :					
	13.7.1	1:3 (1 cement: 3 fine sand)	Sqm	311.28			
11	13.4	12 mm cement plaster of mix :					
	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	291.93			
12	22.23	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per CPWD specification and the direction of the engineer-in-charge.					

		The product performance shall carry guarantee for 10 years against any leakage.					
	22.23.1	For vertical surface two coats @ 0.70 kg per sqm	Sqm	192.00			
	22.23.2	For horizontal surface one coat @1.10 kg per sqm.	Sqm	60.00			
13	13.21	Extra for providing and mixing water proofing material in cement Per bag of plaster work in proportion recommended by the manufacturers.	Per Bag of 50 kg cement used in the mix	115.09			
14	19.18	Supplying and fixing C.I. cover					
	19.18.1	455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :	Each	2.00			
15	10.28	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, onthe top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainlesssteel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	116.24			
		<b>TOTAL "A"</b>					
	<b>B</b>	<b>ROOF ABOVE SUMP</b>					
1	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	Cum	2.51			
2	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement					
	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)	Cum	5.29			
3	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair	Cum	19.66			

		cases above plinth level up to floor five level,excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).					
4	5.9	Centering and shuttering including strutting, propping etc. and removal of form work for					
	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	157.80			
	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	86.28			
	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	17.25			
5	5.22.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					
		Thermo-Mechanically Treated bars of grade Fe-500D or more.(Nominal reinforcement for thermal expansion @ 0.3 % of RCC)	Kg	3778.88			
6	6.3	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) :					
	6.3.2	With Modular bricks	Cum	4.38			
7	13.4	12 mm cement plaster of mix :					
	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	37.36			
8	13.7	12 mm cement plaster finished with a floating coat of neat cement of mix :					
	13.4.2	1:3 (1 cement: 3 fine sand)	Sqm	239.03			
9	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.					
	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	27.23			
10	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	Kg	3680.81			
11	12.1	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins,	Sqm	143.00			



		rafters and trusses and including cutting to size and shape wherever required					
	12.1.1	1.00 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	Sqm	35.34			
12	22.7	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:</p> <p>(a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.</p> <p>(b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand ) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.</p> <p>(c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge.</p> <p>(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.</p> <p>(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test.“All above operations to be done in order and as directed and specified by the Engineer-in-Charge</p>	cum	20.00			
	22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	Sqm	68.25			

13	13.43	Applying one coat of cement primer of approved brand and manufacture on wall surface					
	13.43.1	Cement Primer Ceiling	Sqm	276.39			
14	13.41.1	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade Old works(Asian paints) ( One or more coats)	Sqm	276.39			
15	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade					
	13.61.1	One or more coats on old work (Asian paints)	Sqm	101.56			
		<b>TOTAL "B"</b>					
	<b>C</b>	<b>CONTROL ROOM</b>					
1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					
	2.6.1	All kinds of soil.	Cum	19.27			
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete	Cum	9.27			
3	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
	4.1.8	1:5:10 (1 cement : 5 coarse sand (zone-III): 10 graded stone aggregate 40 mm nominal size)	Cum	17.42			
4	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
		1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size)	Cum	6.08			
5	5.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing :					
	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)	Cum	28.48			

6	5.9	Centering and shuttering including strutting, propping etc. and removal of form work for					
	5.9.1	Foundations, footings, bases for columns	Sqm	12.96			
	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	107.74			
	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	126.44			
	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	48.96			
7	5.22.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					
		Thermo-Mechanically Treated bars of grade Fe-500D or more. (Nominal reinforcement for thermal expansion @ 0.3 % of RCC)	Kg	3714.64			
8	6.3	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) :					
	6.3.2	With Modular bricks	Cum	24.83			
9	13.4	12 mm cement plaster of mix :					
	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	165.91			
10	13.6	20 mm cement plaster of mix :					
	13.6.2	1:6 (1 cement: 6 coarse sand)	Sqm	149.07			
11	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.					
	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	156.09			
12	22.7	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1					

		<p>cement :5 coarse sand ) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.</p> <p>(c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge.</p> <p>(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.</p> <p>(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. "All above operations to be done in order and as directed and specified by the Engineer-in-Charge</p>						
	22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	Sqm	87.84				
13	9.48.2	Providing and fixing M.S. grills of required pattern in frames of windows etc.with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.	Kg	378.68				
14	21.1	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, paneling and dash fasteners to be paid for separately)						
	21.1.1	For fixed portion						
	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade	Kg	122.85				

		according to IS: 1868, Minimum anodic coating of grade AC 15)					
15	21.1.2	Providing and fixing anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868. Minimum anodic coating of grade AC 15) sub frame work for windows and ventilators with extruded built up standard tubular sections of approved make conforming to IS: 733 and IS: 1285, fixed with dash fastener of required dia and size (Dash fastener to be paid for separately).					
	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	88.29			
16	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):					
	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	22.28			
17	10.6	Supplying and fixing rolling shutters of approved make, made of required size M.S.laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wiresprings manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters					
	10.6.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	sqm	18.00			
18	10.7	Providing and fixing ball bearing for rolling shutters	Each	6.00			
19	13.43	Applying one coat of cement primer of approved brand and manufacture on wall surface					
	13.43.1	Cement Primer	Sqm	314.97			
20	13.41.1	Distembering with oil bound washable distember of approved brand and manufacture to give an even shade Old works(Asian paints) ( One or more coats)	Sqm	165.91			
21	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade					

	13.61.1	One or more coats on old work (Asian paints)	Sqm	18.00			
22	13.44	Finishing walls with water proofing cement paint of required shade					
	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	149.07			
		<b>TOTAL "C"</b>					
	<b>D</b>	<b>ELECTRICAL WORK</b>					
1	1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
	1.10.1	Group A	Point	10.00			
	1.10.2	Group B	Point	10.00			
2	1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.					
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Metre	50			
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	50			
	1.14.10	4 X 10 sq. mm + 2 X 10 sq. mm earth wire.	Metre	50			
	1.14.11	4 X 16 sq. mm + 2 X 16 sq. mm earth wire.	Metre	20			
3	1.12	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Metre	50			
4	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
	1.24.1	5/6 amps switch	Each	5			
	1.24.4	3 pin 5/6 Amp Socket Outlet.	Each	5			

5	1.26	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	Each	5			
6	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	Each	5			
7	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc.as required.					
	1.27.6	12 Module (200mmX150mm)	Each	2			
8	2.8	Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FRLS PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required.(But without MCB/ RCCB/ Isolator)					
	2.8.6	6 Way (4+18), Double Door	Each	1			
9	2.10	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	2.10.1	Single Pole	Each	12			
10	1.25	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	5			
11	5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	1			
12	5.2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	Each	1			

13	5.16	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Metre	40			
14		Supplying, Installation, testing, commissioning of LED Bulb 15 watt of make syska/ philips/ bajaj/ havells along with holder.	Each	6			
15		Supplying, Installation, testing, commissioning of 450 mm sweep / 18 inches exhaust fan including necessary civil work to make hole etc in all respect.	Each	4			
16		Supplying, Installation, testing, commissioning of Industrial socket along with 63 Amp TPN MCB along with enclosure including all	Each	1			
17		Supplying, Installation, testing, commissioning of Industrial socket along with 40 Amp TPN MCB along with enclosure including all.	Each	3			
18		Supplying, Installation, testing, commissioning of Ceiling light Cat. No. BY400 LED 72 SCW PSU WH of make philips or equivalent in bajaj, Syska etc.	Each	4			
19		<b>LT PANEL:</b> Supplying installation, testing commissioning of LT PANAL ,cubicle type with 1.6 mm CRCA sheet, IP - 54 Protection INCOMING: 150 A FP MCCB 25 KA -01 No. , Bus bar Aluminium - 180 Amp. - OUTGOING 63 A FP MCCB 16 KA - 3 Nos. & 32 A FP MCCB 16 KA - 5 Nos. duly painted as per IS.	Each	1			
20		SITC Of 2.0 TR 5 STAR Rated Split AC complete with indoor, outdoor unit, compressor, outdoor stand, remote, cu pipe, electrical wire, installation work, 5.0KVA 2Step stabilizer etc complete work reputed Brand ie Panasonic , Lyoad , i.e along with MCB & Socket	Each	2			
21		Supplying and Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required					
		Cable 4 X 50 sq. mm Al	Metre	200			
		<b>TOTAL “ D”</b>					
		<b>TOTAL AMOUNT “A+B+C+D”</b>					
		<b>GST as applicable shall be extra</b>					



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**Total amount ( in words) Rupees-**\_\_\_\_\_

**Only plus GST.**

**Signature of tenderer with seal**