NATIONAL INSTITUTE OF TECHNOLOGY

TIRUCHIRAPPALLI – 15

Web : www.nitt.edu **Phone : 0431 –250 3830**

TENDER DOCUMENT
(TECHNICAL BID)

Name of work	:	**Annual Maintenance on repair and renovation of Civil works at NITT, Trichy**
Value of work	:	**Rs. 300 Lakh**
Tender Enquiry No.	:	**NITT/EMD/EO/CIV/17(140)/2016-17 Dated: 19.12.2016**
Period of Contract	:	**12 Months**

NATIONAL INSTITUTE OF TECHNOLOGY
TIRUCHIRAPALLI -620 015.

Estate Maintenance Department

NOTICE INVITING TENDER

Tender Enquiry No.: NITT/EMD/EO/CIV/17(140)/2016-17 Dated: 19.12.2016

01.	Name of work	:	**Annual Maintenance on repair and renovation of Civil works at NITT, Trichy**
02.	Estimated Cost	:	**Rs.300 Lakh** **(The contract will be split & awarded to two or more agencies)**
03.	Earnest Money Deposit	:	**Rs. 6,00,000/-**
04.	Completion Time	:	**12 Months** (From the date of commencement of the work which will be reckoned from the date of handing over of site to the Contractor)
05.	Cost of Tender Document	:	**Rs.1000 /-** (Including Taxes**)**
06.	Date and Time of Pre bid Meeting		**06.01.2017 at 11.00 a.m.** (Venue: A-11, Administrative Building)
07	Last Date & Time for Receipt of Tenders	:	**15.00 Hrs. on 18.01.2017**
08. (a)	Date & Time of Tender Opening (Technical bid)	:	**15.30 Hrs. on 18.01.2017**
(b)	Opening of Price bid	:	Only qualified bids after evaluation with intimation
09.	Maintenance Period	:	6 (Six Months from the date of actual completion of each work under this agreement and handing over to National Institute of Technology)
10.	Validity of tender	:	90days from the date of opening of tender
11	Address for submission of Tender	:	**The Director,** **National Institute of Technology,** **Tiruchirappalli - 620 015**

Tender document contains 91 pages including Price Bid

12. Name & Address of the Agency: submitting the tender ……

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CONTRACTOR **ACCEPTING OFFICER**

Check list to evaluate the capability of the tenderer qualifying for price bid opening.

Sl.No	Description / Requirement from the tenderer	Tenderer's response should be clear, firm, complete & legible. If necessary, separate sheet shall be used.
1	Name & Complete address of the tenderer with contact details:	
2(a)	Details of Document cost (should be in the form of DD) Demand draft No. Amount Rs. Bank details:	(Bids without document cost /EMD will be summarily rejected unless copy of NSIC with valid registration is attached)
2(b)	Details of EMD (should be in the form of DD) Demand draft No. Amount Rs. Bank details:	
2(c)	NSIC Registration No: Company Name & Address: Validity : Product for which registered:	
3	Status of the tenderer: Proprietorship / Partnership / Private Limited. / Public Limited	
4	Details of electrical license obtained and issuing authority	
5	Details of Contract Registration with Govt. depts. Class and value	
6(a)	Details of PAN	
6(b)	Employees provident fund Registration:	
6(c)	Employees State Insurance Registration:	
6(d)	Service Tax Registration:	
6(e)	Sales Tax Registration:	
7	Copy of Income Tax Return for the last 3 years ending 03/2016	
8	Details of similar works executed with Govt. depts. during last 3 years	Use separate sheet to furnish complete details

Note: Attested copy of relevant certificates for items 2©-8 are to be enclosed.

I/We hereby certify that the information furnished above and the attached documents as proof of the information are true and correct to the best of our knowledge.

I/We understand that these details are required to decide our eligibility to participate in the tender process and opening of our price bid thereon.

I/We also authorize the Director / NITT or his representative to approach the source of the certificate to verify our competence, if required, for processing the tender.

CONTRACTOR **ACCEPTING OFFICER**

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

NOTICE INVITING TENDER

Tender Notification No.: **NITT/EMD/EO/CIV/17(140)/2016-17 Dated: 19.12.2016**

National Institute of Technology, Tiruchirappalli invites sealed tenders, in **Two cover system (Technical Bid and Financial bid) up to 3.00 p.m. on 18.01.2017** for the following work:

Name of work	EMD	Period
Annual Maintenance on repair and renovation of Civil works at NITT, Trichy	Rs. 6,00,000/-	Twelve Months

Contract period is for twelve months.

1. <u>Eligibility criteria</u> :-

i) Contractors who fulfill the following criteria are eligible to submit tender.

Experience of having successfully completed similar civil construction /maintenance works during the last 7 (seven) years ending 31-03-2016 that should be either of the following:

a. Three similar works (at least one of them should be for Central / State Government/Central/State Autonomous Bodies / Public Sector Undertaking) each costing not less than Rs.120 lakh .

OR

b. Two similar works (at least one of them should be for Central/State Government / Central/State Autonomous Bodies / Public Sector Undertaking) each costing not less than Rs.180 lakh

OR

c. One similar work (Central/State Government / Central/State Autonomous Bodies / Public Sector Undertaking) costing not less than Rs. 240 lakh

"Similar works" under this clause means Civil Construction / Maintenance work to educational buildings/ institutional buildings/ commercial buildings/ public buildings/ hostels / factories. Necessary documentary proof like completion certificates in case of works carried out for Government Departments and TDS in case of works carried out for private parties should be enclosed in addition to the completion certificates.

"Cost of work" for this clause shall mean final cost as mentioned in the final bill carried out under single contract including cost of materials, if any, supplied by clients. However the cost of materials issued free of cost shall not be considered for calculating the cost of work.

ii) Should have an average annual financial turnover on civil works costing not less than Rs.90 lakh during the last three years ending 31.03.2016.

iii) Should not have incurred any loss in more than two years during the last five years ending 31.03.2016

iv) Should have a solvency of not less than Rs.120 lakh, from any Nationalised / scheduled bank.

v) Separate Registration code No. for ESI, EPF and PAN on contractor's name / firm

vi) Contractor has to submit live Agency/Company Registration certificate.

2. The tenders should be accompanied by two crossed Demand Drafts, both drawn in favour of The Director, NIT, Tiruchirappalli and payable at Trichy.

   a. One Draft for **Rs. 1000/-** (Rupees one thousand only) towards the cost of application which is nonrefundable.
   b. Another Draft for **Rs. 6,00,000/-** (Rupees Six Lakh only) towards Earnest Money Deposit which is refundable to the unsuccessful bidders. In respect of successful bidder, the same will be adjusted against the security deposit.

3. Tender documents received without Cost of Document and EMD shall be summarily rejected.

4. Tenders along with completed Qualification Documents received in time will be opened at **03:30 p.m. on 18.01.2017 at A12 Hall, NIT, Tiruchirappalli** in the presence of Tenderers or their authorized representatives who chose to be present. In the event of this day being declared a holiday, the tenders will be opened at the scheduled time and place on next working day.

5. **Submission of Tender**

The Tender should be submitted in three envelopes as detailed below:-

Cover 1 – Superscripted as "**TECHNICAL BID WITH DD towards EMD & DOCUMENT COST FOR "Annual Maintenance on repair and renovation of Civil works at NITT, Trichy"**.

This shall contain the following:-

a) Two drafts, one for EMD and another for cost of tender document as stated in Sl. No. 2 above.

b) various filled in formats detailing experience on similar work; completion certificates etc as indicated, Letter of Transmittal and forms A- E financial status etc. as detailed in the enclosed documents, to arrive at the score for the bidder against various thrust areas as indicated in Norms for Qualification.

Cover 2 - Superscripted as **FINANCIAL BID for "Annual Maintenance on repair and renovation of Civil works at NITT, Trichy"**.

This shall contain the various conditions, specifications with rate indicated for all items raised to cost index @ 11.43% prevailing then, Service charges quoted by the bidder in percentage, drawings & etc.,

Master cover:

Both the two covers (TECHNICAL BID & FINANCIAL BID) shall be placed in the Master cover superscripting: "Annual Maintenance on repair and renovation of Civil works at NITT, Trichy".

6. Other details and the method of evaluating the capacity of the prospective contractors are detailed elsewhere in this documents.

7. The Director, NIT, Tiruchirappalli reserves the right to accept or reject any or all the tenders without assigning any reason thereof.

8. The Director, NIT, Tiruchirappalli-15 also reserves the right to disqualify such bidders in the future tenders whose performance was not satisfactory against the earlier contracts entered into NIT, Tiruchirappalli-15.

9. After award of the contract, if performance of the selected contractor is found to be not satisfactory during the trial period of three months, NITT reserves the right to terminate the contract at any time by giving short notice and forfeiting the security deposit to compensate the extra cost to be incurred by NITT in carrying out the service through alternate agency. If the performance is satisfactory, the contract will be extended for nine more months.

10. The contract may be split and awarded to two or three agencies at the discretion of NITT by counteroffering the lowest acceptable percentage to the second and third lowest in the order of their tender position. If two agencies are considered for award, the original lowest will be awarded for Rs.180 lakh followed by Rs.120 lakh to the second lowest. If three are considered, Rs.120 lakh will be for the original lowest followed by Rs.90 lakh each for the next two. However there is no change in eligibility criteria and norms for qualification.

11. In the event of the disputes, differences, claims and questions arising between the parties hereto arising out of this agreement or anyway relating here to or any term, condition or provisions herein mentioned or the validity, interpretation, thereof or otherwise in relation hereto, all such dispute claims or question shall be referred to **Sole Arbitrator** appointed by the NITT. Such arbitration shall be held in accordance with the provisions of arbitration and conciliation act 1996 or re-enactment thereof for the time being in force and arbitration proceedings shall be held at Tiruchirappalli. All legal disputes shall be subject to the jurisdiction of court at Tiruchirappalli.

NATIONAL INSTITUTE OF TECHNOLOGY
TIRUCHIRAPALLI -620 015.
Estate Maintenance Department

INSTRUCTION TO TENDERERS

1) Time is the essence of the contract. Being a time bound project, the contractor should make all efforts to complete the individual works in allotted time.

2) The tender value includes cost of cement, reinforcement steel, structural steel and all other related material required for completion of the work.

3) Even though the overall completion period is indicated as **12 months**, the work shall be completed progressively / individual part work order wise and handed over as per agreed split up schedule if any.

4) The tenderers are advised to visit the site and get themselves acquainted with the site conditions before submitting the offer.

5) This being a percentage rate contract, anticipated quantity of each item is not provided that depends on the NIIT's requirement then and there. Hence the contractor is required to carry out any item for any quantity without any reservation at his overall single tender percentage. Further the actual execution is liable for variation without entitling the tenderer to any compensation, till the total value of contract vary by more than 30% (thirty percentage).

6) Quoted rate shall remain valid for a period of 90 days from the date of tender opening for the release of work order and will be firm throughout the contract period of **Twelve months** or till completion of work, once awarded and no cost escalation is allowed on any account.

7) The single percentage offered is for finished item of works and shall provide for the complete cost towards fuel, tools, tackles, plant & machinery, temporary works, labour, materials, levies, contingencies, taxes**,** transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colonies, establishment, services, roads, revenue expenses, overheads, profits & all other incidentals etc., complete. The quoted percentage shall include all royalties, terminal taxes, Octroi duties, Central or Provincial Excise Tax, Sales Tax and any other taxes leviable under the State or Central Government rules. NITT will not entertain any claim whatever in this respect. ***The applicable Service Tax alone will be reimbursed by NITT along with the running /* final bill on production of documentary evidence by the agency for having paid the service tax to the authorities concerned.**

8) Probable operation of various items are shown in the bill of quantities as an indication. This being an annual maintenance contract, operation of each item and its quantum cannot be predicted at this stage. The successful tenderer is expected to carry out any item of work for any quantity without any reservation at the quoted percentage. Some of the items may be operated more or less or even not operated but the quoted percentage would take care of such factors. Single Percentage quoted shall be the basis for arriving at the lowest tenderer among the participants. Cost index prevailing then at Trichy (11.43%) is inbuilt over DSR 2014 basic rates and shown as estimated rates for each item. While quoting the service charges as single percentage the contractor has to account for statutory payments towards ESI,PF& Bonus for workforce to arrive at workability of rates for given items, apart from his establishment

and overheads **and offer MINUS, or ATPAR or Plus percentage towards service charges.**

However it is made known that the basic DSR incorporates profit & overheads. A maximum of three agencies will be selected by counter offering the agreed lowest percentage to the immediate next tenderers such a way to have three approved agencies at the same accepted tender percentage. Work will be assigned to these three agencies in rotation at any zone (Quarters / Hostel / Institute) and depending on the individual performance / works completed / works on hand, without any prejudice .

9) The work shall be carried out as per drawings released then and there, BIS/CPWD specifications, standard code of practice and as per the instructions of Engineer-in-charge. The brief description of items of work is given in the specifications. **Tenderer has to quote single percentage rate both in figures and in words considering all the items & factors stated above under the specifications provided in the Price Bid.**

10) For any item of work not covered in schedule, the rate will be arrived at based on the procedure given in CPWD manual**.** Such **additional items can be executed and billed as extra items at DSR rates " Plus inbuilt loading towards cost index (11.43%) plus accepted percentage" mentioned in Schedule that cover contractor's overheads and profits.**
As such "Market Rate" -shall be the rate as decided by the Engineer-in-charge on the basis of the cost of materials and labour at the site where the work is to be executed "Plus accepted percentage" mentioned in Schedule that cover contractor's overheads and profits.

11) The contractor has to furnish the security deposit, as per the Clause indicated elsewhere in this document, if the work is awarded. Further the contractor has to furnish 50 % of security deposit before signing of agreement and commencement of work. {Refer Clause 39 (III)}

12) Since the responsibility for the quality, workmanship and accuracy of any work being carried out under this contract lies with the contractor, the contractor should ensure that no work is done without the presence of contractor's representative at the work spot, whose strength depends on the value of contract awarded. The contract should arrange for surveying construction site at his own cost.

13) The decision of Estate Officer shall be final and binding on the contractor regarding clarification of items in this tender schedule.

14) The works contract to be entered into with the successful tenderer will be governed by the CPWD Works Manual in force & shall strictly adhere to various labour laws in force.

15) To safeguard the persons working at height in roof, wall etc., sufficient number of Industrial Safety nets shall be provided at tenderer's cost in appropriate level and locations. The working hand including Supervisors, Engineers should wear the personal protective items and safety measures such as helmets, safety belts, shoes, etc., before entering into working place.

16) The tenderer has to deploy adequate labour of required categories such as Unskilled, Semiskilled, Skilled, Mason, Carpenter, Plumber, Welder, Fitter, Mistry, Technically experienced, etc. so as to execute the works simultaneously in all areas of work.

17) Expertise labour only to be engaged for specialized items of work like laying of ceramic tiles, marbles, cuddapah slabs, granite slabs and false ceiling, partition, wall paneling, architectural finishing etc. and work experienced persons shall be engaged for fabrication, water supply, railway track laying and aligning works, sewerage system work, etc.

18) The contractor shall follow norms of NITT security system for movement of men & materials within the complex.

19) All the materials to be used in the work and the nature of work shall conform to the respective CPWD & BIS and National Building Organisation, Standard Specifications forming part of "DELHI STANDARD SCHEDULE OF RATES" specifications and shall be got approved by the Engineer-in-charge before actual incorporation in the work.

20) All materials brought by the Contractor for incorporation in the work shall be got inspected and approved by the Engineer-in-charge before they are incorporated in the work.

21) All safety measures are to be followed during execution of work, particularly during blasting and only licensed blaster should be engaged for this purpose. Sufficient care shall be taken by the contractor during excavation to avoid damages to the buried pipe lines, cables and other infrastructure if any etc. Controlled blasting including muffling can be carried out with prior permission from safety department. Damages caused if any shall be rectified at contractor's risk and cost.

22) The contractor should extend fullest co-operation with the third party agencies engaged, if any by NITT, to adhere the Quality Control Procedures ensuring quality.

23) The contractor should extend full co-operation to the other contractors who may be doing other works in the same areas to enable them to execute their portions of work without any delay or difficulty.

24) Tenderers are requested to furnish the duly filled in E format attached as separate sheet along with a cancelled cheque leaf to accept Electronic fund transfer / R T G S transfer for any payment from NITT, Trichy.

25) No advance / mobilization advance will be given.

26) **Default of Contractor**

LD / Penalty clause is applicable as per CPWD Works Manual in force. HOWEVER the Contractor shall immediately attend the defects and complaints noticed at site. The Contractor shall provide and develop a system for attending to Repair and Maintenance of all services immediately on call, which includes defects identifications and it's immediate rectification so that services are not affected. It shall be the sole responsibility of this agency that all the services are undisturbed while attending to the repairs and the entire facilities are in service round the clock during the currency of the contract.

i) Repair and Maintenance related complaints of emergency nature that are required to be attended within that day shall be attended within that day, failing which a fine of Rs. 100 per day shall be imposed from the subsequent eligible payment to the contractor.

ii) If the performance of the contract is not satisfactory and not corrected within 15 days of receiving notice, then NITT shall be at liberty to terminate the contract with due notice and get the work executed through alternate agency at the risk and cost of the defaulted Contractor and payment to the defaulter, if any shall be released only after the physical completion of whole work allotted to the earlier contractor.

Liquidated Damages for Delay

If the Contractor fails to attend any complaint or defect and if in the opinion of engineer, delay is on the part of this agency, the NITT can impose liquidated damages on the contractor as detailed in the respective conditions.

27) NITT reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract awarded against a different Tender.

28) The tenderer has to ensure payment of Minimum Wages as per Central rules and Minimum Wages as applicable under law from time to time.

29) The Contractor shall have to remit EPF & ESI contributions at the rates applicable under law to the authorities concerned for the total wages paid / abide by BOCW Act / Coverage in Group Insurance Scheme / All Risk Policy.

30) **Percentage Rate should be quoted in FIGURES and in WORDS indicating MINUS / PLUS prefix to the quoted percentage or AT PAR** if the offer is same as that of the rates in BOQ . In case of any difference in the quoted percentage in figures and in words, the lower of the two will be taken as the tendered percentage.

31) Tenders received after the due date and time of opening, will not be accepted.

32) The contractor's responsibility under this contract shall commence from the date of receipt of the LOI by the tenderer. The scheduled period of completion for this work is as mentioned in page No. 01, and the Contractor will have to plan his work accordingly.

33) Generally, the maintenance period for any work under NITT will be SIX (6) MONTHS from the date of completion of each work and handing over to NITT.

34) All the documents shall be duly signed with seal in all pages and placed in a common sealed cover duly superscripting the **Name of Work, Tender reference & Date of opening** and submitted.

35) Any deviation to this tender terms & condition and schedules of this tender will cause total rejection of the offer submitted

36) Incomplete offers will become liable for rejection.

Tender addressed to **THE DIRECTOR, NIT,** Tiruchirappalli-620 015 will be received up to 15.00 Hrs **at the office of the Registrar** as per the schedule of tender notice and will be opened at 15.30 Hrs in the presence of those who may choose to attend the tender opening.

Tender submitted by post should be sent superscripting "**Register Post with Acknowledgement Due**". These should be posted with due allowance for any postal delay. Tender received after due date and time of opening tenders, will be rejected and NIT, Trichy will not be responsible for any postal delay.

37) **Requirement of Technical Staff for the Work**

The contractor immediately on award of work, is to intimate the details i.e. name(s), qualifications, and address(es) of the qualified Engineer(s) planned to be employed by him as per terms of the contract and to ensure that the said engineer(s) is/are actually available at site to supervise construction at all stages and note down the instructions conveyed by the Engineer-in-Charge.

(i) Engineer(s) and/or supervisor(s) deployed as per stipulation in the contract shall look after only the work under contract and no other work and shall be available exclusively for that particular work.

(ii) Even if the contractor (or partner in case of firm/company) is himself an Engineer/ Overseer/ supervisor, it is necessary on part of the contractor to employ Engineer(s) and/or/ for the supervision of the work(s) as per stipulation.

(iii) The Retired Engineer/Asstt. Engineer who are holding Diploma may be treated at par with Graduate Engineers for the operation of the Clause. Diploma holder with minimum 10 year relevant experience with a reputed construction company can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

The following technical staff shall be engaged as: Up to 150Lakh

1 No. of Graduate Engineer with Minimum 2 years' experience
OR
1 Diploma Engineer with minimum 5 years' experience
As Principal technical Representative(Project Planning / Site / Billing Engineer)

More than 150 & up to 500 lakh

i)Principal technical Representative:
1 No. of Graduate Engineer with Minimum 5 years' experience

ii) Project Planning / Site / Billing Engineer:
1 No. of Graduate Engineer with Minimum 2 years' experience
OR
1 Diploma Engineer with minimum 5 years' experience

In case of non-compliance, the rate of recovery is as follows on pro rata basis:

Qualification	Experience (years)	Rate of recovery
Graduate Engineer	5	Rs.25,000/-p.m.
Graduate Engineer	2	Rs.15,000/-p.m.
Diploma Engineer	5	Rs. 15,000/-p.m.

38) **Earnest Money Deposit**:
Earnest Money is to be paid by each tenderer to ensure that the tenderer does not refuse to execute the work after it is awarded to him. Shall also be furnished in the form of Pay Order or Demand Draft in favour of The Director, NIT Tiruchirappalli. EMD in any other form will not be accepted. The rate of earnest money deposit shall be as under:

Works costing upto Rs. 1 lakh	1%
Works costing more than Rs.1 lakh	2% of the Estimated cost put to tender

EMD by the Tenderer will be forfeited if,

a) After opening the tender, the tenderer revokes his tender within the validity period or increases his earlier quoted rates.

b) The tenderer does not commence the work within the period as per LOI / Contract. In case the LOI / contract is silent in this regard then within 15 days after award of contract.

c) EMD given by all unsuccessful tenderers shall be refunded normally within fifteen days of acceptance of award of work by the successful tenderer.

d) EMD shall not carry any interest.

39. **Security Deposit**

I. Security Deposit should be collected from the successful tenderer, before start of the work, . The rate of Security Deposit will be as below:

Up to Rs. 10 lakhs	10%
Above Rs. 10 lakhs upto Rs.50 lakhs	Rs.1 lakh + 7.5% of the amount exceeding Rs. 10 lakhs.
Above Rs. 50 lakhs	Rs.4 lakhs + 5% of the amount exceeding Rs. 50 lakhs.

II. Only pay order or Demand Draft in favour of **The Director, NIT, Tiruchirappalli** is accepted towards Security Deposit.

III. Security deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the Security Deposit should be deposited before start of the work and the balance 50% may be recovered from the running bills.

IV. EMD of the successful tenderer shall be converted and adjusted against the security deposit.

V. The security deposit shall not carry any interest.

Unless the contractor whose tender is accepted signs the Contract Agreements and makes the necessary security deposit specified in Para above within Seven days of the date of the order directing him to do so, the amount of Earnest Money Deposit already deposited by him will be forfeited and acceptance of his tender withdrawn.

40. NITT shall not be responsible for any loss of securities, due to liquidation for any other reasons, what-so-ever or any depreciation in the value of the securities while in their charge or for any loss of interest there on.

41. All compensation or other sums of money payable by the Contractor to NITT under the terms of this contract or under any other contract with NITT may be deducted from the Security Deposit or realised by the sale of the securities or from the interest arising therefrom or from any sums which may be due or may become due to the contractor by NITT and in the event of this Security Deposit being deducted by reason of such deductions or sale, as aforesaid, the Contractor shall within 7 days thereafter, make good in cash or in securities endorsed as aforesaid, any sum by which the Security Deposit has been reduced.

42. REFUND OF SECURITY DEPOSIT: - The Security Deposit mentioned above may be refunded to the Contractor after a period of 6 months on termination or expiry of the contract provided always that the Contractor shall first have been paid the last and final bill and have rendered a "NIL CLAIM CERTIFICATE

43. National Institute of Technology will not be bound by any power of attorney granted by the tenderer or by changes in the composition of firm made subsequent to the execution of the contract. They may however recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contract concerned.

44. If the tenderer deliberately gives wrong information in his tender or creates conditions favourable for the acceptance of his tender, NITT reserves the right to reject such tender at any stage.

45. The expenses for completing and stamping the agreement shall be paid by the contractor.

46. Tenderers shall not increase their quoted rate in case NITT, negotiates for reduction of rate. Such negotiation shall not amount to cancellation or withdrawal of the original offer and the rate originally quoted shall be binding on the tenderers for a period of three months from the date of opening of tenders.

47. Canvassing in any form in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection

48. All entries in the tender documents should be in one ink. Erasers and over writings are not permitted. All cancellations and insertions should be duly attested by the tenderer concerned.

49. TENDERERS should fill in all the required particulars in the blank spaces provided for this purpose in the tender documents and also sign each and every page of Tender Documents including the drawings attached there to, before submitting their tender.

50. Conditional and Un witnessed tenders, tender containing absurd rates and amounts tenders which are incomplete or otherwise considered defective and tenders not in accordance with the tender conditions laid down by the Accepting Officer are liable to be rejected.

51. Tenders not submitted on the prescribed form are liable to be rejected.

52. This tender notice shall be deemed to form an integral part of the contract to be entered into for this work.

53. The tenderers are advised to go through the condition stipulated in Tender document & code of conduct for Safety of Contract Labourer' in details. Any violation thereof will invite punitive action being taken against them. While quoting the rate all the above factors are to be taken into account.

54. Agency registered with NSIC is exempted from payment of tender document cost & Earnest Money Deposit but required to attach the attested copy of registration indicating the company name, address, registration number, validity & product for which registered in the technical bid, for the specified financial criteria. Any deviation in the certificate on

product or validity or name of the company tendering, will attract rejection resulting non-opening of respective price bid.

55. Arbitration:

Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions hereinbefore mentioned and as to the quality of workmanship or materials used on the work or as to any other **question, claim, right, matter or thing whatsoever in any way arising out of or relating to** the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the work or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the Director of NITT and if Director is unable or unwilling to act, to the sole arbitration of some other person appointed by the Director, willing to act as such arbitrator. The cases referred to arbitration shall be other than those for which the decision of the Estate Officer / Engineer-in-charge is expressed in the contract to be final and conclusive. There will be no objection if the arbitrator so appointed is an employee of NITT and that he had to deal with the matters to which the contract relates and that in the course of his duties as such he had expressed views on all or any of the matters in dispute or difference.

The arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, Director as aforesaid at the time of such transfer, vacation of office or inability to act, shall appoint another person to act as arbitrator in accordance with the terms of the contract. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor. Subject as aforesaid the provision of the Arbitration & Reconciliation Act, 1996 or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause.

It is a term of the contract that the party involving arbitration shall specify the dispute or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute.

The arbitrator(s) may from time to time with consent of the parties enlarge the time for making and publishing the award.

The work under the Contract shall, if reasonably possible, continue, during the arbitration proceedings and no payment due or payable, to the Contractor shall be withheld on account of such proceeding.

The Arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the Parties fixing the date of first hearings. The arbitrator shall give a separate award in respect of each dispute or difference referred to him. The venue of arbitration shall be such place as may be fixed by the Arbitrator in his sole discretion. The award of the arbitrator shall be final, conclusive and binding on all parties to this contract.

In the event of disputes or differences arising between one public sector enterprise and a Govt. Department or between two public sector enterprises the above stipulations shall not apply or its amendments for arbitration shall be applicable.

56. **Force Majeure clause**: If at any time during the continuance of this contract the performance in whole or in part by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) then provided notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof

neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non-performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist.

If the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by NITT subject to prompt notification by the tenderer to NITT of the particulars of the events and supply to the NITT if required of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed to be a waiver of time in respect of remaining deliveries.

The correspondence exchanged against the tender from both tenderer and NITT through email are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business.

Any transaction pertaining to the tender from both the parties of business done round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the patties to the business.

In case Letter of Intent (LOI) is issued through email, the PC generated time and date of mail shall be construed as the official time and date of release of LOI. In as much as this date is within the last date of validity given by the bidder the LOI is said to have been issued within the validity period and shall be bidding on both the parties to the business.

Tenderers participating in the tender should declare in their technical bid that whether they have been black-listed / kept on hold for a specified period / given Business holiday for a specified period by any Public sector undertaking or Government departments. The reasons for such action with details and the current status of such hold shall be clearly furnished to NITT. If no such details are mentioned in the offer then it will be construed that the subject bidder is not under any such hold. But at a later date if it comes to the notice of NITT about any such hold under enforcement on the subject bidder, NITT will have every right to reject the offer of such vendors at any point of time and also under any stage of the finalisation of the subject tender irrespective of the status of the subject bidder in that tender. Such bidders will not be permitted to participate in the further tender proceedings and will be communicated suitably. They will not be also considered for any ongoing tenders even if participated till the hold is officially lifted and confirmed in writing.

57. Compensation for Delay:

If the contractor fails to maintain the required progress or to complete the work and clear the site on or before the contracted or extended period of completion, he shall, without prejudice to any other right or remedy of the NITT on account of such breach, pay as agreed compensation an amount calculated as stipulated below or such smaller amount as may be fixed by the NITT on the contract value of the work for every week that the progress remains below or that the work remains incomplete. This will also apply to items or group of items for which separate period of completion has been specified.

For this purpose the term ‘Contract Value’ shall be the value at contract rates of the work as ordered and the compensation for delay is by way of recovery at 1 percent of contract value per week of delay provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% of the

contract value or of the contract value of the item or group of items of work for which a separate period of completion is given.

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 NITT.

SECTION-I

GENERAL CONDITIONS OF CONTRACT

1. The work has to be carried out in NIT campus, Tiruchirappalli .
2. The scope of work inter alia includes the following with free power wherever needed, all within NITT
3. Scope of work includes construction and maintenance activities of all Civil works, minor Structural steel works, Interior decorations, Roads, Water supply, Sewer lines, Horticulture etc., all in NITT campus that consist of Hostels, Institute Buildings, Residential Quarters and with other buildings like Auditorium, Seminar Hall, Schools, Hospital, Recreation Center, Kalyanamandapam, Shopping Centre, etc.
4. The scope of work also includes construction and maintenance activities of water supply pumping station, overhead tanks, Sewage treatment plants etc,.
5. Usually, working hours are limited to day time only. In emergency cases to carryout works during nights, it may be done so with the specific prior permission of NITT. In such case, it is to be carried out in the presence of NITT officials or their authorized persons.
6. The tenderers are advised to visit NITT premise and get themselves acquainted with the site condition and nature of this maintenance contract before submitting the offer.
7. The tender value of Rs.300.00 lakh includes cost of cement, reinforcement steel & structural steel which can be split & awarded to two or more agencies, by counter offering the lowest acceptable percentage to the other tenderers in the order of their position considering the higher value to the original lowest as indicated under clause 10 of Notice Inviting Tender.
8. The awarded value is only tentative and liable for variation without entitling the tenderer to any compensation, till the total value of contract does not vary by more than 30 % (thirty percentage).
9. The quoted rate shall be firm throughout the contract period.
10. The contractor should bring the construction machineries like Paver, Road Roller, JCB etc., as and when required for the work without any delay. Also required number of the following Tools & Plants / instruments shall be made available always at site.

    a) Levelling instruments and theodolite.
    b) Full load mixture machine
    c) Petrol / Kerosene driven vibrator
    d) Cube moulds
    e) Inter carting vehicle (mini door, tractor, hand trolley etc)

11. Exclusive lorries to be deployed regularly to clear the debris generated and on no account the debris can be left for more than three days. Otherwise NITT would clear the debris at the contractor's risk and cost.
12. The contractor may be required to undertake works at remote places and in such cases the contractor should make his own arrangement for safety of NITT materials, water required for the work and power etc.

13. The responsibility of clearing the building materials and cleaning the area immediately after the completion of work lies with the contractor. The contractor should ensure more care while working at residence and other places of importance.

14. The contractor has to execute any item of work irrespective of the quantity without any reservation.

15. The contractor has to carry out the work without affecting the working environment.

16. The decision of Engineer-in-charge shall be final and binding on the contractor in case of any controversy in specification between the items in CPWD SR & specification elsewhere in the contract.

17. The contractor shall follow norms of NITT security system for movement of men & materials within the complex.

18. Since the responsibility for the quality, workmanship and accuracy of any work being carried out under this contract lies with the contractor, the contractor should ensure that no work is done without the presence of contractor's representative at the work spot.

19. Contractor's respective Supervisor / Engineer shall have to attend the maintenance office daily before 0900 Hrs to collect the complaints and also to hand over the complaints attended the previous day.

20. Daily labour report for the manpower engaged on previous day area wise shall have to be submitted next day. Weekly progress report shall have to be submitted on every Monday.

21. The contractor has to submit the organization chart of their set up and any change thereafter in the organization set up shall have the prior approval of NITT.

22. Statement of completed works with detailed measurements along with material reconciliation statements shall be submitted by the contractor every week and the payment for the work done will be paid once in a month.

23. The contractor should establish his own site office and stores for which vacant land / quarters will be allotted on specific request.

24. The contractor is required to carry out construction / maintenance activities as and when directed by the department officials irrespective of quantum involved at any specified time. Considering the nature of maintenance activities, volume of work involved, scattered location of work spot, the contractor is required to engage certain minimum strength of experienced supervisors for effective supervision of works.

25. Adequate Quality Engineer and Safety Engineer should be deployed at site.

26. Additional supervisors shall have to be engaged depending upon the workload.

27. Also the tenderer has to deploy adequate labour of required categories such as Unskilled, Skilled, Mason, Carpenter, Plumber, Welder, Fitter, Mistry, Technically experienced, etc. so as to execute the works simultaneously in all areas of work.

28. Expertise labour only to be engaged for specialized items of work like laying of ceramic tiles, marbles, cuddapah slabs, granite slabs and false ceiling, partition, wall paneling, architectural finishing, cast iron pipe restoration works etc.

29. The tenderer should furnish the complete details called for. Inadequate and incomplete details which are not as per the document are liable to be rejected. At the same time unwanted and unconnected details need not be furnished.

30. The bidders are cautioned that furnishing of incomplete / ambiguous information, suppression of facts and alteration of prescribed format will entail outright rejection of tender application.

31. Should a bidder find discrepancies or omissions in the tender documents or should there any doubt as to their meaning, he should at once address the authority inviting the tender for clarification well before the due date so as to submit the tender in time. No extension of time shall be given for submission of the tender on any account.

32. Conditional tender, late tenders, tenders containing prima-facie absurd rates, tenders which are in complete or otherwise considered defective, tenders not in accordance with the tender conditions therein contained and the tenders not in original ARE LIABLE TO BE REJECTED.

33. The Contractor will be responsible and liable for the implementation of all the statutory provisions as regards to the personnel to be deployed by him in respect of minimum wages, Provident Fund, and ESI etc. as and when they become applicable under the Labour Laws. The Contractor shall maintain all the statutory registers under the law. The Contractor shall produce the same on demand to Institute's authority or any other authority under law. As and when applicable the Contractor will obtain a license under the Contract Labour (R&A) Act. 1970. In case, the previous month's challan pertaining to ESI and EPF having been deposited do not accompany the bill as a documentary proof, the Institute has the right to hold up a requisite portion/ or whole of bill amount till such proof is produced and furnished, at the discretion of the Institute. The Contractor will ensure payment of wages to his personnel within the period prescribed under Labour Laws for the purpose. The Contractor is also required to have a registration under the Company's Act, 1956 or under Indian Partnership Act, 1932 and should have a 'Memorandum and Article of Association' of the company or Partnership Deed, a certified copy of which will be submitted along with the tender. In case the Contractor fails to comply with any statutory obligation under any Labour Laws, and as a result thereof the Institute is put to any loss or obligation, monetary or otherwise, the Institute will be entitled to get itself reimbursed out of the bills or the security deposit of the Contractor, to the extent of the loss or obligation in monetary terms.

34. In all matters of dispute, the decision of the Estate Officer, National Institute of Technology, Tiruchirappalli -620 015 shall be final and binding on the tenderer / contractor.

35. Engineer in charge / Civil or his duly authorized representative shall have all reasonable times access to Contractor's premises of work and shall have the power at all the reasonable times to inspect and test any portion of the work and workmanship

36. The contractor should submit weekly progress report for the work completed by the workmen engaged under this contract along with acceptance by the respective user / department confirming the work done.

37. All personal protective equipment conform with standard specification and Contractor including their agents and labour engaged on the work are required to scrupulously adhere to the safety regulations, safety precautions and measurers. Any violation thereof will invite punitive action being taken against them. Also contractors with frequent violations of safety regulations will not be entrusted with further work in this organization

TERMS AND CONDITIONS REGARDING COMPLIANCE WITH VARIOUS LABOUR LAWS BY THE CONTRACTORS FOR NITT

1. The Contractor shall not employ in connection with the work any person who has not completed 18 years of age.

2. The Contractor shall in respect of labour employed by him either directly or through subcontractors, comply with or cause to be complied with the following statutory provisions and rules and in regard to all matters provided therein.

   a) The Contract Labour (Regulation & Abolition) Act 1970
   b) The Minimum Wages Act 1948 and related Central Rules.
   c) The Payment of Wages Act 1936 and related Central Rules.
   d) The Employee's Provident Fund & Miscellaneous Provisions Act 1952.
   e) The Employees State Insurance Act 1948.
   f) The Workmen Compensation Act 1923.
   g) The Industrial Disputes Act 1947.
   h) The payment of bonus act 1965

   and any other law or modifications to the above or to the Rules made thereunder from time to time.

3. The Contractor employing workmen is required to obtain license from the authorities (Assistant Commissioner of Labour). The license shall be amended and / or renewed wherever, there is an increase in the workmen employed by him or in the event of contract being extended or renewed. The Contractor shall inform the license number to the NITT Management before taking up the work.

4. The Contractor (Licensed or unlicensed) shall promptly furnish every information and document required by NITT authorities for the purpose of fulfilling their obligations as Principal Employer and shall render all necessary assistance for the same.

WAGES

5. The Contractor shall pay wages to the workmen employed by him at the rate which shall not be less than the minimum wages applicable under Law from time to time.

6. The Contractor shall fix wage periods in respect of which wages shall be payable. No wage period shall exceed one month.

7. The Contractor shall ensure payment of wages to the contract labour employed by him within three days from the end of wage period in case the wage period is one week or a fortnight and in all other cases before **7**th day of the following month.

8. All Payment of wages shall be made on working days at the work site and during the working time and on date notified in advance. In case the work is completed before the expiry of the wage period final payment shall be made within 48 hours of the last working day.

9. Where the employment of any worker is terminated by or on behalf of the Contractor, the wages earned by him shall be paid before the expiry of the second working day from the day on which his employment is terminated.

10. Wages due to every worker shall be paid to him direct or to the person authorized by him in this behalf. All wages shall be paid in current coin or currency in both.

REGISTERS & RECORDS: -

11. The Contractor shall maintain all registers and records in the proper manner and as required by the regulations of the various authorities concerned and indemnify the Employer from the consequences due to any inaccurate or faulty documentation on the part of the Contractor.

POST TECHNICAL AUDIT OF WORK AND BILLS:-

12. NITT reserves the right to carry out the post-payment Audit and technical examination of the work and final bill including all supporting vouchers, abstracts etc., and enforce recovery of any sum becoming due as a result thereof in the manner provided in the presiding sub-paragraphs. Such recovery shall be enforced any time even after passing the final bill.

SUBMISSION OF BILLS BY CONTRACTOR: -

13) Complaints shall be made in the prescribed format. A complaint register (in prescribed format) shall be maintained in the Office of the contractor in which all complaints received shall be documented

The Contractor shall submit a bill in 3 copies to the Engineer by 7th day of each month for the work executed up-to the end of previous month supported by the requisitions issued from time to time in tabulated form approved by the Engineer, showing the amounts to which the Contractor considers himself to be entitled. The bill must be supported with the following documents:-

(a) Attendance sheets along-with salary certificates, wages sheets of all the workers and staffs deployed.

(b) Certified bills miscellaneous materials purchased under different heads not covered in BOQ.

(c) Details of defects/complaints attended and rectified within time.

(d) Details of complaints attended late.

(e) Test certificates of materials used and tests carried out for quality control as required by the specifications and the Engineers.

f)Deviation from the items provided in the contract documents.

g)Extra items / new items of work.

h)Items in-respect of which rates have not been settled. He should in addition furnish a clear certificate to the effect that the claims submitted by him as aforesaid cover all his claims and that no further claims shall be raised by him in respect of the work done upto and including the period under report.

.**PAYMENT OF BILLS:-**

14. All payments to be made to the Contractor, under this contract shall be by NEFT or RTGS within a reasonable time, after the certification of bills by the execution department.

RECOVERY FROM CONTRACTOR:-

15. Whenever under the contract, any sum of money, shall be recoverable from or payable by the Contractors, the same may be deducted from or any sum then due or which at any time thereafter may become due to Contractor under the contract or under any other contract with NITT or from his Security Deposit or he shall pay the claim on demand.

CANCELLATION OF CONTRACT FOR CORRUPT ACTS:-

16. NITT, whose decision shall be final and conclusive, shall without prejudice to any other right or remedy which shall have accrued shall accrue thereafter to NITT cancel the contract in any of the following cases and the Contractor shall be liable to make payment to NITT for any loss or damage resulting from any such cancellation to the same extent as provided in the case of cancellation for default,

If the Contractor shall:-

a) Offer or give or agree to give to any person in NITT service any gift or consideration of any kind, as an inducement or reward for doing or for bearing to do or for having done or for borne to do any act, in relation to the obtaining or execution of this or any other contract for NITT service,

OR

b) Enter in to a contract with NITT in connection with which commission has been paid or agreed to be paid by him or with his knowledge, unless the particulars of any such commission and the terms of payment thereof have previously been disclosed in writing to NITT.

OR

c) Obtain a contract with NITT as a result of ring tendering or by non-bonafide methods of competitive tendering, without first disclosing the fact in writing to NITT.

CANCELLATION OF CONTRACT FOR INSOLVENCY ASSIGNMENT OF TRANSFER OR SUBLETTING OF CONTRACT:-

17. NITT, without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to NITT shall cancel the contract in any of the following cases:

If the Contractor,
Being an individual or if a firm any partner thereof shall at any time be adjudged bankrupt or have a receiving order for administration of his estate, made against him or shall take any proceedings for liquidation or composition under any bankruptcy Act or assignment of his effects of composition or arrangement for the benefit of his creditors or purport to do so, or if any application made under any Bankruptcy Act for the time being in force for the sequestration of his estate or if a trust deed be granted by him on behalf of his creditors

OR

(a) Being a Company, shall pass a resolution or the Court shall make an order for the liquidation of its affairs, or a receiver or Manager on-behalf of the debenture holders shall be appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or Manager,

OR

(b) Assigns, Transfers, Sub-lets or attempts to assign, transfer or sub-let any portion of the work without the prior written approval of the NITT.

(c) Whenever NITT exercise the authority to cancel the contract under this conditions, NITT may have the work done by any means at the Contractor's risks and expenses provided always that in the event of the cost of the work so done (as certified by Engineer in charge which is final and conclusive) being less than the contract cost, the advantage shall accrue to the NITT and if the cost exceeds the money due to Contractor under the contract, the Contractor shall either pay the excess amount ordered by Estate Maintenance Dept. or the same shall be recovered from the Contractor by other means.

(d) In case the NITT carries-out the work under the provisions of this condition the cost to be taken into account in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plants and/or labour provided by the NITT with an addition of such percentage to cover superintendence and establishment charges as may be decided by Estate Maintenance Dept., whose decision shall be final and conclusive.

CANCELLATION OF CONTRACT IN PART OF FULL FOR CONTRACATOR'S DEFAULT:

18. If the Contractor:
(a) makes default in carrying out the work as directed and continues in that state after a reasonable notice from Engineer in charge or his authorised representative
(b) fails to comply with any of the Terms and Conditions of the contract or after reasonable notice in writing with orders properly issued thereunder
(c) NITT, may without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to NITT, CANCEL the contract as whole or in part thereof or only such work order or items of work in default from the contract. Whenever NITT exercise the authority to cancel the contract as whole or part under this condition NITT may complete the work at the contractor's risk and cost (as certified by Engineer in charge, which is final and conclusive) being less than the contract cost, the advantage shall accrue to the NITT. If the cost exceeds the moneys due to the Contractor under this contract the Contractor shall either pay the excess amount ordered by Estate Maintenance Dept. or the same shall be recovered from the Contractor by other means. In case the NITT carries out the work or any part thereof under the provisions of the conditions the cost to be taken into account in determining the excess cost to be charged to the Contractor under this condition shall consist of the cost of the materials, hire charges of tools and plant and/or labour provided by the NITT with an addition of such percentage to cover the superintendence and establishment charges as may be decided by the Engineer in charge, whose decision shall be final and conclusive.

TERMINATION OF CONTRACT ON DEATH OF CONTRACTOR. :-

19. Without prejudice to any of the rights or remedies under this contract, if the Contractor dies, or if the firm is dissolved or the company is liquidated, NITT shall have the option of terminating the contract without compensation to the Contractor.

SPECIAL POWER TO TERMINATION:-

20. If at any time after the award of contract, NITT shall for any reason whatsoever not require whole or any part of the work to be carried out the Engineer in charge shall give notice in writing of the fact to the Contractor who shall have no claim to any payment of compensation or otherwise howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the fore-closing of the work.

LABOUR:-

21. The Contractor shall remain liable for the payment of all wages or other moneys to his work-people or employees under the payment of Wages Act 1936, Employees Liability Act. 1938, Workmen's Compensation Act 1923 or any other Act or enactment, relating thereto and rules framed, thereunder from time to time.

22. **Corrigendum / Amendment:**
It is tenderer’s responsibility to watch for any corrigendum or amendment till the opening of a particular tender that will be posted only at NITT web site.

SECTION – II

INFORMATION AND INSTRUCTION ON TECHNICAL BID

1. General

1.1 The "TECHNICAL BID" (application to qualify) shall contain data and information to enable the institute to draw up a list of qualified agencies who can take part in the tender process and whose "Financial Bids" (Tenders) can be processed further.

The following documents should be enclosed:

i. Letter of transmittal in the enclosed format.
ii. Solvency certificate from a nationalized bank.
iii. Financial information in **Form - A** (format enclosed).
iv. Performance report in **Form - B** of works (format enclosed).
v. Details regarding the structure of the organization in **Form- C** (format enclosed).
vi. Details of personnel establishment in **Form - D** (format enclosed).
vii. Details of equipment in **Form - E** (format enclosed).

1.2 All information called for in the enclosed forms should be furnished against the respective columns in the forms. If information is furnished in a separate document, reference to the same should be given against respective columns. Such separate documents shall be chronologically placed at the end of the prescribed application. If information is 'nil' it should also be mentioned as 'Nil' or 'no such case'. If any particular / query is not applicable in case of the applicant, it should be stated as 'Not applicable'. However, the applicants are cautioned that furnishing of incomplete / ambiguous information, suppression of facts and alteration of prescribed format will entail outright rejection of tender application. Application made by fax and those received late after the prescribed date and time will not be entertained.

1.3 **The applicant should sign in each page of the application.**

1.4 Overwriting should be avoided. Correction, if any, shall be made by neatly crossing out, initialling, dating and rewriting.

1.5 References, information and certificates from the respective clients certifying suitability, technical know-how or capability of the applicant should be signed by an officer not below the rank of Executive Engineer / Project Manager or equivalent.

1.6 The applicant may furnish any additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. However the applicants are also advised not to attach superfluous / additional information beyond the requirement of the Bid. No information will be entertained after technical bid is submitted, unless it is called for by the EO / EMD / NITT

1.7 Documents submitted in connection with the tender will be treated as confidential and will not be returned.

2. Definitions

In these documents the following words and expressions have their meaning here by assigned to them.

a) Employer means The Director, NIT, and Tiruchirappalli.

b) Applicant means individual, proprietary firm, and firm in partnership, limited company (private, public and corporation).

3. Method of Application

3.1 If an individual makes the application, it shall be signed by him above his full type written name and current address.

3.2 If a proprietary firm makes the application, it shall be signed by the proprietor (with seal) above his full typewritten name & the full name of his firm with its current address.

3.3 If the application is made by a firm in partnership, it shall be signed by (with seal) all the partners of the firm above their full typewritten names and current addresses or alternatively by a partner holding power of attorney for the firm in which case, a certified copy of the power of attorney shall accompany the application. A certified copy of the partnership deed along with current addresses of all the partners of the firm shall also accompany the application.

3.4 If a limited company or a corporation makes the application, it shall be signed by a duly authorized person holding power of attorney for signing the application, in which case, a certified copy of the power of attorney shall accompany the application. Such limited company or corporation may be required to furnish satisfactory evidence of its existence. The applicant shall also furnish a copy of the Memorandum and Articles of Association duly attested by a Notary Public.

4 Final Decision Making Authority

The Director, NIT Tiruchirappalli reserves the right to accept or reject all or any of the applications and to annul the qualification process / tender process at any time without assigning any reason or incurring any liability to the applicants.

5. Particulars – Provisional

The Particulars of work given in Section – I are provisional. They are liable to change and must be considered as advance information only to assist the applicant.

6. **Site Visit**

The applicant is advised to visit NITT campus where the works are to be carried out at his own cost and examine the surroundings and collect all information that he considers necessary for proper assessment of prospective assignment during working hours with prior permission from the **Estate Office (Mobile : 9486001115)**.

7. The applicant should own required tools & tackles for proper and timely execution of the work. Else, he should certify that he would be able to manage the tools & tackles by hiring etc.

7.1 The applicant should have sufficient number of employees for proper execution of contract. The applicant should submit a list of his employees with their age **(Not more than 50 years)** and trade stating clearly how they would be involved in this work.

7.2 The applicant's performance in respect of completed works and ongoing works should be certified by an officer not below the rank of Executive Engineer or equivalent and should be obtained and delivered in sealed covers.

(b) Evaluation By Scoring

7.b.1 The applicants, who qualify the eligibility criteria mentioned under clause 1 of Notice Inviting Tender, shall be further evaluated for various criteria as shown in clause 7.3.3 and in the norms for qualification by scoring method based on the details submitted by them.

7.b.2 Inspection committees will carry out surprise visit to tenderers clients' places and their reports, form valuable inputs for the short-listing process.

The final selection of the contractor will be based on the lowest percentage towards service charges quoted among the qualified bidder taking into account the combination of all the trade and the respective rate indicated therein leading to the ultimate value for 12 months. The tender will be considered as a whole and hence overall lowest value will be the lowest tenderer. Quoting single percentage as service charges for all the items is mandatory and partial offer will be treated incomplete tender and rejected.

7.3.3 The applicants who fulfil the eligibility criteria as stated earlier shall only be evaluated further for the following criteria:-

(a) Financial strength (Form - A)	Maximum 30 Marks
(b) Experience in similar nature of work During last five years. (Form - B)	Maximum 30 Marks
(c) Performance on works (Form - C)	Maximum 20 Marks
(d) Personnel and Establishment (Form - D)	Maximum 10 Marks
(e) Tools & Tackles (Form -E)	Maximum 10 Marks
Total	100 Marks

Note: To qualify, the applicant must secure at least 70% (Seventy percent) marks in aggregate. For qualification norms, refer pages 34 & 35 of tender document. The Director, NITT reserves the right to restrict the list of pre-qualified contractors to any number deemed suitable by it.

7.3.4 Even though an applicant may satisfy the above requirements, he would be liable for disqualification if he has:

(a) Made misleading or false representation or deliberately suppressed the information in the forms, statements and enclosures required in the qualification document.

(b) Record of poor performance such as, abandoning work, not properly completing the contract, not meeting the statutory requirement, or financial failures / weaknesses, terminated in the middle of the contract period etc.

8.0 Financial Information

The applicant should furnish the annual financial statement for the last 5 years in Form – A.

9.0 Experience in Similar Works

9.1 The applicant should furnish the list of *al*l works of similar nature successfully completed during last 5 years and are now in progress in Form – B. Such Particulars duly authenticated / certified by an officer not below the rank of Executive Engineer or equivalent should be furnished separately for each work

10.0 Organizational Information

Applicant is to submit the following information in respect of his organization in form C

(a) Name and postal address including telephone, fax number, E-mail ID, etc.

(b) Copies of original documents defining the legal status, place of registration and principal places of business.

(c) Names and titles of Directors and officers to be concerned with the work, with designation of individuals authorized to act for the organization.

(d) Information on any litigation / arbitration in which the applicant was involved during the last five years including any current litigation / arbitration in process.

(e) Authorization for employer to seek detailed reference from clients to whom works were carried out.

(f) Number of technical and administrative employees in parent company, subsidiary company and how these would be involved in this work – Form D

11.0 Tools & Tackles

Applicant should furnish the list of equipment likely to be used / deployed for carrying out the work (in Form E). Details of any other equipment not mentioned in Form E, but available with the applicant and likely to be used in this work may also be indicated.

12.0 Tender Submission and Decision

After the details submitted by the applicant regarding his financial capacity, previous experience etc. are studied and evaluated, a list of agencies who can take part in the tendering process shall be prepared and all concerned will be intimated. The financial bids (Tender) of the applicants who have not been qualified after evaluation, shall be returned unopened. Qualified tenders shall be opened by the committee constituted for this purpose on the date and time to be intimated, in the presence of the tenderers or their authorized representatives who may choose to present.

SECTION – III
SPECIAL CONDITIONS OF CONTRACT

1) Every tenderer is expected to inspect NITT campus for which the service is to be rendered before quoting service charges. The requirement of experienced labour under respective trade and required tools & tackles for the nature of work in general should be assessed and no claim for extra payment at a later date on that account shall be entertained.
Without written permission of EO, EMD, NITT**,** no part of the contract shall be sublet, shall transfer the power of attorney, authorizing others to receive the payment on contractors behalf.

2) If further information is required, the Estate Office will furnish such information, but it must be clearly understood that tender must be received in order and according to instruction.

3) The contractor should employ workers who have experience in civil maintenance work.

4) Child Labor is strictly prohibited and if there is any violation, the contract will be terminated.

5) Permits for workers to the campus / building shall be obtained by the contractor from the concerned authorities. Only photo passes shall be issued and no group passes shall be issued.

6) Necessary monthly bills should be submitted by the contractor on or before seventh of subsequent month by fulfilling all formalities attaching copy of statutory remittances.

7) All expenses related to the functioning of the employees engaged by the contractor shall be in the scope of the contractor. The record of duty hours and pay structure should be maintained as per rules for inspection by authorized government personnel and meeting other statutory and non-statutory benefits/obligations.

8) The contractor should take all measures for environmental protection, such as control of chemical pollution, proper disposal of waste etc., and ensure that there are no adverse effect on the ecology, particularly on flora and fauna of the campus.

9) The contractor shall collect completion certificate for the work done from the respective Department/ resident / steward which is to be handed over to EMD latest the next day of completion

10) The contractor shall submit a copy of the EPF/ESI/bonus/ insurance documents along with each running account bill. Monthly bill will not be processed unless the above are submitted. Necessary records shall be kept in compliance of the same for verification by the enforcing agencies.

11) Minimum wages as per the Central Government norms shall have to be disposed.

12) Rate per each item is indicated in Rupees. The contractor is required to quote a single average percentage towards service charges and equivalent absolute value against the tender value and fill up the total contract value that will decide the lowest competitor. In case of any difference in the quoted value viz. in figures and words, the lower of the two will be taken as the service charges.

13) The quoted service charge should be inclusive of all taxes and duties levied or to be levied both by Central and State Government Statutory / regulatory authorities from time to time except Service Tax. NITT will not entertain any claim whatsoever in this regards.

However NITT will reimburse only service tax paid by the agency on submission of documentary evidence for having paid so with respect to this work.

14) If after opening the tender, the tenderer revoke his tender to increase his earlier quoted rate or after acceptance of his tender does not commence the work in accordance with the instruction of EO, ESTATE MAINTENANCE DEPT. the earnest money deposited by him, will be forfeited and acceptance of his tender withdrawn.

Nature / Scope of Work/ Frequency of Operation:

a) The scope of work is well defined in the bill of quantities under financial bid where the agency is required to quote only a single service charge in percentage considering rates indicated for various items.

b) The scope of work also includes deployment of additional manpower on any day with 24 hours prior notice apart from the regular strength to take care of Institute's requirement for any specific programme. The contractor will be paid towards these additional manpower as per wages and related statutory payments indicated in the tender or prevailing then plus the service charges quoted by the bidder and accepted by NITT.

c) The scope shall cover any other service / work that might arise depending upon contingency

d) The contractor should produce the P.F. return for all workers, every six months.

Working Conditions:

1. The contract is normally required to be carried out on all days except Sundays & declared holidays. However if situation warrants, has to carry out works on holidays also.

2. The labourers put in work must be provided with identity card to distinguish them from other staff.

3. The payment will be made after deducting Income Tax, Labour Welfare Cess etc.

Statutory Requirement:

a) The contractor should get labour license for the work from licensing authority of the Government by paying necessary fees.

General:

a) Work men should be vigilant while on work.
b) Smoking in the institute premise is strictly prohibited.
c) Workers must be free from influence of alcohol.
d) Workers must be physically and mentally fit for work.
e) Workers should avoid causing damage to the Institute property
f) The NIT, Tiruchirappalli Administration will not accept any responsibility if the work man is injured.
g) The movement of workers should be restricted to their area of work and should not wander into other areas.

Additional Conditions:

1) The contractor should execute an agreement in the non – judicial stamp, incorporating the various terms and conditions.

2) If the contractor performance is not satisfactory, the contract will be terminated by giving due notice.

3) The contractor shall recoup NITT the cost of the damage incurred by the contractor on account of any breach of the terms and conditions of the agreement.

4) NITT will not be liable for any medical attention, injury / loss of life of the person engaged by the contractor.

5) The contractor shall be solely responsible for any claim arising out of employment or termination of employment of his employees and for statutory payments. The contractor shall employ only such personnel who are medically fit and above the age of 18.

6) In case of any lapse in services, quality standards or any standing instruction, the contractor shall be penalized accordingly.

7) The contract may be terminated due to violations or poor performance or noncompliance of statutory payments in time, with due notice.

8) The contractor shall at his own expense reinstate and make good to the satisfaction of NITT and pay compensation for any injury, loss or damage occurred to any property or rights whatever including property and rights of NITT employees.

9) In case of failure on the part of the contractor to complete any contractual obligations, NITT reserves the right to get the same done at the contractor's risk and cost by another agency / departmentally apart from imposing penalty.

10) In case NITT be held liable for any loss, damage or compensation to third party arising by the housekeeping contractor, such loss, damage or compensation shall be paid by the contractor to NITT together with the cost incurred by NITT on any legal proceedings pertaining thereto.

11) NITT reserves the right to disqualify such bidders who had a record of not meeting the contractual / statutory obligations against earlier contract entered into with NITT.

12) The proof of remittance of statutory deductions like EPF,ESI as appropriate, to the respective agency, for those employed at NITT must be provided by the contractor to NITT every month along with the running bill, failing which the claim bill shall not be settled. These remittances / payments must be made in a separate challan specifically for the contract personnel deployed to NITT in the name of NITT.

13) The technical bids will be subjected to evaluation by a committee calling for a technical presentation by the vendors which will include verifying financial turn over registration certificates, legal, financial, statutory, taxation and other associated compliance of contractual conditions. The committee may evaluate / verify the performance of the agency at any pf their existing contracts which may include obtaining references for visiting clients and the quality of services rendered by agencies. Further the committee may disqualify the bidder based on oral / written references or insufficient quality of service provided during existing or previous contracts.

14) The contractor shall at all times indemnify and keep indemnified the principle employer, the head of the office and its officers, servants and agents for and against all third party claims whatsoever (including time not limited to) property loss and damage, personal accident, injury or death of /or property or person of any sub contract and or the servant or agents of the contractor any sub-contractor and or the owner and the contractor shall at his own cost and imitative at all times maintain all liabilities under workman's compensation Act / Fatal Accident Act, personal injuries, Employees state Insurance Act, PF Act and or their industrial legislation from time to time in force.

15) The service charges as quoted by the agency in percentage shall remain firm for the entire contract duration.

The value of contract will be worked out based on the percentage service charges as quoted by bidder. Service Charge should be **inclusive of all taxes (excluding service tax).**

Evaluation of the bidders will be done based on quote of percentage service charges mentioned in Price Bid Format. The contract would be awarded to the bidder quoting the minimum service charges in the Price bid format. In the event of more than one bidder having quoted identical lowest percentage and there is a tie amongst the bidders, the respective bidders would be asked to submit their revised percentage. This process would continue till the distinct L1 rate is arrived.

The Contractor shall be fully responsible for the timely payment of wages, provident fund, bonus or any other benefits payable under the aforesaid Acts, Laws and regulations to the workforce engaged by him at the work premises of the Institute. The Institute shall not be responsible for these payments or any other liability on this account. The Contractor shall also indemnify and compensate the Institute for any liability incurred by the Institute, if any, including costs incurred thereon. In that event the nominated officer of the Institute shall be entitled to recover the amount so paid, from the contractor, including forfeiture of the Security Deposit and if the sum so payable and the Security Deposit is less than Institute's claim, it shall be lawful for the Institute to recover the balance amount as a debt from the Contractor.

The Contractor shall indemnify and compensate the Institute, if the Institute as Principal Employer under the Contract Labour (Regulation and Abolition) Act, 1970 becomes liable to assume any liability towards the workforce engaged by the contractor. In that event, the provisions relating to recover as provided in relevant clauses of the said Act shall be applicable in toto.

LEAVE / HOLIDAYS: For every workforce deployed in NITT premises, the contractor will give one day's weekly off for every six continuous working days

16) The contractor may be allotted unoccupied old house for the purpose of storing his material related to the contract work and running his office during the currency of the contract

SPECIFIC CONDITIONS

1. No night work will be permitted without the written permission of the Engineer – in – charge.

2. Permission for erection of temporary work sheds etc., at site will have to be obtained from NITT in writing in advance.

3. The works contract to be entered into with the successful tenderer will be governed by the CPWD works Manual 2014 or the latest in force.

4. The successful tenderer / Contractor shall observe all safety regulations and take necessary safety precaution as called for and Safety Precautions enclosed herewith.

5. In all matters of dispute, the decision of the Estate Officer, National Institute of Technology, Tiruchirappalli -620 015. shall be final and binding on the tenderer / contractor.

6. For Some changes are likely in the layout, design and specifications of the work. The Percentage rate quoted shall be deemed to be inclusive of all such contingencies.

7. Engineer in charge / Civil or his duly authorized representative shall have all reasonable times access to Contractor's premises of work and shall have the power at all the reasonable times to inspect and test any portion of the work or examine the materials and workmanship of the structures during their manufacture and test. The contractor shall give due notice in writing to the Inspecting Engineer of NITT when the materials supplied to be incorporated in the work are ready for Inspection and test. No material shall be incorporated in the work until the inspecting Engineer certified in writing that such materials have been inspected and approved by him or else the rejected material should be removed from site immediately.

8. The contractor should submit in advance every fortnight a detailed programme of workto be undertaken from time to time strictly in conformities with the "Time and Progress Chart" covering the entire constructed work and reschedule them wherever necessary during the progress of the work so as to achieve the target set.

9. Water if available may be supplied to the contractor by the department subject to the following conditions:-

   (i) The water charges @ 1 % shall be recovered on gross amount of the work done.
   (ii) The contractor shall make his/their own arrangement of water connection and laying of pipelines from existing main of source of supply.
   (iii) The Department do not guarantee uninterrupted water supply and it will be incumbent on the contractor to make alternative arrangements for water at his/ their own cost in the event of any temporary break down in the water main so that the progress of his/their work is not held up for want of water. No claim of damage or refund of water charges will be entertained on account of such break down

SAFETY PRECAUTIONS TO BE FOLLOWED AT WORK SITE DURING EXECUTION

The following safety measures should be strictly adhered to, during execution of works at sites.

1. Providing the working platform with toe board and handrail for continuous working at heights.
2. Providing safety belt and life line at all times for men working at heights.
3. Providing dust or fume respirator in places where dust and fume concentration exists.
4. Providing goggles and welding screens.
5. Providing acid and alkali proof rubber gloves for handling acid and alkali and chemical which are corrosive.
6. Providing rubber gloves for working on electrical works.
7. Ensuring proper lashing of the components while being transported in vehicles.
8. The vehicles must have side supports or have body to support the materials conveyed.
9. The materials should not be allowed to extend or overflow the sides of the vehicles.
10. Materials should not be allowed to overhang from the rear edge of the body of the vehicle.
11. Driver of the vehicle must possess license.
12. Vehicle must not be overloaded prescribed limits.
13. Red flags and lights for parts projecting from the body of vehicle must be provided.
14. The speed restrictions within the Institute must be strictly adhered to.
15. The gas cylinders must be always handled on trolleys or kept tied down not in use. They should never be rolled as Roller for conveying.
16. Cylinders should not be used without regulators.
17. All excavations must be barricaded and red lamps must be provided.
18. All electrical connections must be properly earthed.
19. Providing helmet, safety belt, etc., for high level work and sufficient number of Industrial Safety nets at appropriate level to safeguard the persons working at high level particularly in roofing etc.,
20. All personal protective equipment conform with standard specification and Contractor including their sub-contractors, agents and labour engaged on the work are required to scrupulously adhere to the safety regulations, safety precautions and measurers. Any violation thereof will invite punitive action being taken against them. Also contractors with frequent violations of safety regulations will not be entrusted with further work in this organization.

SAFETY PRECAUTIONS TO BE OBSERVED WHILE TRANSPORTING MATERIALS

I. VEHICLE

1. Vehicles carrying material should have proper registration documents and must be produced on demand by our Security Staff.

2. The light on right side, i.e., over the drivers cabin shall be in working condition.

3. Both the head lights as well as park lamps must be in working conditions.

II. MOVEMENT OF VEHICLE

1. The vehicle should not travel at more than 20 km.ph in our premises.

2. The Driver of the vehicle must possess heavy duty license and produce on demand by the Security Staff.

3. Vehicles carrying inflammable liquids in the tank containers should have grounding chain or the tank should be coated with insulating material also to avoid Static Electricity.

4. In road junctions, speed breakers and railway crossing, the speed should be lowered and vehicle should proceed cautiously.

5. The driving should 'KEEP TO THE LEFT' at all places.

6. The vehicle should not be parked in road which could obstruct the vehicular traffic.

7. No person other than driver should be allowed to sit or stand on the prime mover or trailer.

8. The vehicle should pass only through the approved routes. Short cuts should be forbidden.

9. There must be a safe distance behind another moving truck.

10. The driver should avoid making quick starts, jerky stops or quick turns at excessive speed.

QUALIFICATION INFORMATION
LETTER OF TRANSMITTAL

To

The Director
NIT,
Tiruchirappalli 620 015.

Sub: **Annual Maintenance on repair and renovation of Civil works at NITT, Trichy**

Sir,

Having examined the details given in notice inviting qualification application and tender for the above work, I / we hereby submit the qualification application documents (Technical Bid) and the tender (Financial Bid) for the work duly filled.

1. I / we hereby certify that all the statements made and information supplied in the enclosed forms and accompanying statements are true and correct.

2. I / we have furnished all information and details necessary for deciding our eligibility and to get qualified for taking part in the tendering process for the work. We have no further information to supply.

3. I / we submit the requisite latest solvency certificate in original and authorize the Director, NIT Tiruchirappalli or his authorized representative to approach the bank concerned to confirm the correctness of the certificate. I / we also authorize NIT Tiruchirappalli or its representative to approach individuals, firms and corporations to verify our competence and general reputation.

I am / we are aware that the tender document (Financial bid) will not be opened if I am / we are not qualified to take part in the tendering process.

Seal of the Applicant

Date of submission

Signature(s) of the applicant(s)

Form - A

FINANCIAL INFORMATION

I. Financial Analysis

Details are to be furnished duly supported by figures in Balance sheet / Profit and loss account for the last five years duly certified by the chartered accountant, as submitted by the applicant to the Income – Tax Department (Copies to be attached).

Sl. No.	Details	Year Ending 31st March of				
		2012	2013	2014	2015	2016
1.	Gross annual turnover in Civil construction & Maintenance related works					
2.	Profit (+) / Loss (-)					

II. Financial arrangement for carrying out the proposed work.

III. Income Tax PAN Details.

IV. Solvency certificate from any Nationalised Bank.

Signature(s) of Applicant (s) with seal

Signature of Charted Accountant with seal

Form - B

Performance Report form for works completed and are in progress during last 7 years
(Attach copies of work order / agreement – Multiple copies may be generated as per requirement)

1. Name of the work / Project & Location :

2. Scope of work :

3. Agreement No. :

4. Tendered Cost :

5. Value of work done :

6. Date of commencement :

7. Date of Completion :

8. Performance report based on quality of work, time management and resourcefulness : Very Good / Good / Satisfactory / to improve

Date :

Executive Engineer
Project Manager,
or Equivalent

Form - C

Structure and Organization

1. Name and address of the applicant :

2. Telephone No. / Fax No. / E-Mail address :

3. Legal Status (attach copies of original Document defining the legal status) :

    a) An Individual
    b) A Proprietary Firm
    c) A Firm in Partnership
    d) A limited Company or corporation :

4. Particulars of registration with various Government bodies (Attach attested photocopy):

    a) Registration Number
    b) Organization / Place of registration

5. Names and Titles of Directors and officers with designation to be concerned with this work with designation of individuals authorized to act for the organization.

6. Was the applicant ever required to suspend housekeeping for a period of more than one month continuously after the work was commenced? If so, give the name of the project and give reasons thereof.

7. Has the applicant or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion?

8. Has the applicant or any constituent partner in case of partnership firm, ever been debarred / black listed for tendering in any organization at any time? If so, give details.

9. Has the applicant or any constituent partner in case of partnership firm, ever been convicted by a court of law? If so give details.

10. If any other information considered necessary related to housekeeping works but not included above.

Signature(s) of Applicant(s) with seal

Form D

DETAILS OF KEY TECHNICAL AND ADMINISTRATIVE PERSONNEL EMPLOYED BY THE FIRM / COMPANY

Sl. No.	Designation	Total number	Name	Qualification / Professional Experience	Length of continuous service with the employer

Note: Additional information about technical personnel, if any, be submitted in separate sheet

Signature(s) of Applicant (s) with seal

FORM - E

Equipment Details

List of equipment owned and planned for deployment

Sl. No.	Equipment	Numbers
1.		
2.		
3.		
4		
5		
6		
7		
8		

Signature(s) of Applicant (s) with seal

NORMS FOR QUALIFICATION

Name of work: Annual Maintenance on repair and renovation of Civil works at NITT, Trichy

Tender value of Rs. 300.00 Lakh

	ELIGIBILITY:- **1. Separate Registration Code No. for EPF, ESI and PAN on contractor's name / firm.** **2. Average annual turnover of civil works in the last three financial years should be at least Rs 90 lakh.** **3. During last seven years should have successfully completed either** **I. Three similar works each not less than Rs. 120 lakh** **or** **II. Two similar works each not less than Rs. 180 lakh** **or** **III. One similar work not less than Rs. 240 lakh** **4. Solvency for at least Rs 120 lakh from Nationalised / Scheduled Bank** **5. Should not have incurred any loss in more than two years during the last five years ending 31.03.2016**		
	THRUST AREA	**SCORE**	**QUALIFICATION NORMS**
I	**FINANCIAL STATUS**	**30 (Max)**	
	i) Nature of Company	**5**	
		5	Public Limited
		3	Private Limited/Partnership Firm
		2	Sole Proprietor
	ii) Average annual turnover for civil works in the last three years	**15**	
		15	More than Rs.180 Lakh
		9	Rs.90 Lakh (Pro-rata for in between cases)
	iii) Solvency	**10**	
		10	More than Rs. 240 Lakh
		6	Rs.120 Lakh. (Pro-rata for in between cases)
II	**Similar Experience (Civil related construction / Maintenance works)**	**30 (Max)**	
	i) Value of Civil works executed in the last three years	30	More than Rs.480 Lakh.
		18	Rs.240 Lakh (Pro-rata for in between cases)

III	**Performance on previous works**	**20 (Max)**	
	i) Number of Civil works successfully completed in the last three years	10	Successful completion of three major works in time. (each costing at least Rs.120 lakh)
		8	Successful completion of two major works in time (each costing at least Rs.120 lakh)
		6	Successful completion of one major work in time (each costing at least Rs.120 lakh)
	ii) Highest value of single work completed	**10**	
		10	Rs. 240 Lakh & more
		6	Rs. 120 Lakh. (Pro-rata for in between cases)
IV	**i) Qualified staff availability**	**10 (Max)**	
		10	Graduate Engineer Plus workforce proportionate to the loading
		8	Diploma Engineer Plus workforce proportionate to the loading
		6	Supervisory/ Forman Plus workforce proportionate to the loading
V	**i) Equipment owned / planned for deployment**	**10 (Max)**	
		10	Hopper mixer, Truck/Tippers, vibrator, Steel shuttering 800SqM, Building hoist, JCB, Dozer, Batch mix plant, Tandem roller, Vibration compactor
		8	Hopper mixer, Truck/Tippers/ vibrator, Steel shuttering 600SqM, Building hoist, JCB, Tandem roller, Vibration compactor
		6	Hopper mixer, Truck/Tippers,/ vibrator, Steel shuttering 400SqM, JCB Vibration compactor

NOTE: Minimum score required for qualification is 70 out of 100.

NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI – 15

Web : www.nitt.edu **Phone : 0431 –250 3830**

PRICE BID

Name of work	:	**Annual Maintenance on repair and renovation of Civil works at NITT, Trichy**
Value of work	:	**Rs. 300 Lakh**
Tender Enquiry No.	:	**NITT/EMD/EO/CIV/17(140)/2016-17 Dated:19.12.2016**
Period of Contract	:	**12 Months**

SCHEDULE 'A'

LIST OF WORKS AND PRICES

NAME OF WORK:

DETAILS & SPECIFICATIONS of each item of work shown in the BILL OF QUANTITIES are only a guide for the purpose of tendering only and are liable to variation and alteration of the Competent Authority. The work under each item as executed shall be measured and priced at the corresponding rate plus the service charges quoted by the contractor in the BILL OF QUANTITIES

Sl.No.	Description of work / supplied	Total amount of work (in figures and words) Rs. Ps.	Period of contract
1.	**Annual Maintenance on repair and renovation of Civil works at NITT, Trichy**	**300 Lakhs (Rupees Three hundred Lakh - only)**	**12 MONTHS**

BILL OF QUANTITIES

Sl. No.	CPWD DSR No.	Description of work	Plus ……. . %Rate (Both in Unit fig & Words)

AS PER SEPARATE SHEETS ATTACHED CONTAINING 45 PAGES

FROM SERIAL No**. 44 - 89**

Name of Work: Annual Maintenance on repair and renovation of Civil works at NITT, Trichy

ESTIMATED RATES FOR ANTICIPATED ITEMS BASED ON DSR2014+TRICHY CI / MARKET RATES

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
	0.1 HIRE CHARGES OF PLANTS		
1	0017 Hire and running charges of tipper	day	1894.31
2	Hire and running charges of loader	day	5571.50
3	Hydraulic Excavator (3D) with driver and fuel	day	8914.40
4	Tractor with ripper attachment	day	1504.31
5	Tractor with trolley	day	1671.45
6	Hire charges of TATA 407 or equivalent for local shifting.	Day	1448.59
	Above hire - charges include cost of services of operating staff and supply of lubricating oil.		
7	Carriage of materials by Mechanical Transpoert including loading,unloading and stacking		
	Lead 2 Km earth	Cum	126.24
8	**Earth work in surface excavation not exceeding 30 cm in depth but**		
	exceeding 1.5 m in width as well as 10 sqm on plan including disposal		
	of excavated earth upto 50 m and lift upto 1.5 m, disposed soil to be		
	levelled and neatly dressed :		
8.1	All kinds of soil	100 sqm	5620.70
9	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 disposal of excavated		
	earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled		
	and neatly dressed.		
9.1	Ordinary rock	cum	272.56
9.2	Hard rock (requiring blasting)	cum	465.94
9.3	Hard rock (blasting prohibited)	cum	688.75
10	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		
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI**

			at Trichy @11.43% / market rate
10.1	All kinds of soil.	cum	175.50
11	Excavating trenches of required width for pipes, cables, etc, including		
	excavation for sockets, depth upto 1.5 m, including getting out the		
	excavated materials, returning the soil as required in layers not		
	exceeding 20 cm in depth, including consolidating each deposited		
	layers by ramming, watering etc., stacking serviceable material for		
	measurements and disposal of unserviceable material as directed,		
	within a lead of 50 m :		
	Ordinary rock :		
11.1	Pipes, cables etc. not exceeding 80 mm dia	metre	202.64
11.2	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	metre	501.77
11.3	Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	metre	577.37
	Hard rock (requiring blasting)		
11.4	Pipes, cables etc. not exceeding 80 mm dia	metre	304.32
11.5	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	metre	753.55
11.6	Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	metre	800.18
	Hard rock (blasting prohibited)		
11.7	Pipes, cables etc. not exceeding 80 mm dia	metre	391.84
11.8	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	metre	970.22
11.9	Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	metre	1116.42
12	Filling available excavated earth (excluding rock) in trenches, plinth,		
	sides of foundations etc. in layers not exceeding 20cm in depth,		
	consolidating each deposited layer by ramming and watering, lead		
	up to 50 m and lift upto 1.5 m.	cum	125.25
	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.		
12.1	All kinds of soil	cum	51.54
12.2	Ordinary or hard rock	cum	92.43
13	Supplying and filling in plinth with Jamuna sand under floors, including		
	watering, ramming, consolidating and dressing complete.	cum	1014.29
	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.		
14	All kinds of soil	100sqm	1388.14
15	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared	100sqm	715.38
16	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared	100sqm	366.16

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
17	Filling with available fly ash and earth (excluding rock) in trenches or embankment in layers (each layer should not exceed 15 cm), with intermediate layer of compacted earth (Soil density of 98%) after every four layers of compacted depth of fly ash, sides & top layer of filling shall be done with earth having total minimum compacted thickness 30 cm or as decided by Engineer -in-charge, including compacting each layer by rolling/ ramming and watering, all complete as per drawing and direction of Engineer-in-charge	cum	125.25
	CEMENT CONCRETE (CAST -IN- SITU)		
18	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :		
18.1	1:1:2 (1 Cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	cum	8391.07
18.2	1:1½:3 (1 Cement: 1½ coarse sand: 3 graded stone aggregate 20 mm nominal size)	cum	6653.04
18.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	6091.10
18.4	1:4:8 (1 cement : 4 fine sand : 8 graded stone aggregate 40 mm mm nominal size)	cum	4488.57
18.5	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	cum	4461.66
	(5.0 REINFORCED CEMENT CONCRETE)		
	CAST-IN-SITU		
19	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 :		
19.1	1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	cum	8680.34
19.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	6942.31
19.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	6380.37
20	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 :		
20.1	1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	cum	9620.92

Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
20.2	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	7882.89
20.3	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	7320.95
21	Reinforced cement concrete work in beams, suspended floors, roofs havingslope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plainwindow sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mmnominal size).	cum	7552.95
22	Providing and laying up to floor five level reinforced cement concrete in kerbs, steps and the like, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	cum	7090.12
23	**FORM WORK**		
	Centering and shuttering including strutting, propping etc. and removal of form for :		
23.1	Foundations, footings, bases of columns, etc. for mass concrete	sqm	218.90
23.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	sqm	402.04
24.2	Suspended floors, roofs, landings, balconies and access platform	sqm	447.56
24.3	Shelves (Cast in situ)	sqm	447.56
24.4	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	370.11
24.5	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	505.17
24.6	Stairs, (excluding landings) except spiral-staircases	sqm	440.87
25	**PRE - CAST R.C.C.**		
	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in shelves, including setting in cement mortar 1:3 (1 cement:3 coarse sand), cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).	cum	13566.27

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
26	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand:4graded stone aggregate 6 mm nominal size), reinforced with 1.6 mmdiamild steel wire, including centering and shuttering, roughening cleaning,fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand)etc.complete, excluding plastering of the jambs, sills and soffits.		
26.1	50 mm thick	sqm	813.38
26.2	40 mm thick	sqm	711.93
26.3	25 mm thick	sqm	673.09
27	**STEEL REINFORCEMENT**		
	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete in all level.		
	Mild steel and Medium Tensile steel bars	Kg	72.37
	Cold twisted bars	Kg	75.88
27.1	Thermo-Mechanically Treated bars	Kg	75.88
28	Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In- Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall confirm to ASTM 6063.)		
28.1	Wall Joint of 100 mm gap	metre	5661.65
28.2	Wall Joint of 150 mm gap	metre	6098.45
28.3	Wall Joint of 200 mm gap	metre	6535.26

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
29	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings anddirection of Engineer-In-Charge. The joints shall be of extruded aluminumbase members with, self-aligning and self-centering arrangement supportplates as per ASTM B221-02. The system shall be such that it provideswatertight roof to roof/roof to corner joint cover expansion control systemthat is capable of accommodating multidirectional seismic movementwithout stress to its components. System shall consist of metal profilethat incorporates a universal aluminum base member designed toaccommodate various project conditions and roof treatments. The coverplate shall be designed of width and thickness required to satisfy movementand loading requirements and secured to base members by utilizingmanufacturer's pre-engineered self-centering arrangement that freelyrotates / moves in all directions. The Self centering arrangement shallexhibit circular sphere ends that lock and slide inside the correspondingaluminum extrusion cavity to allow freedom of movement and flexure inall directions including vertical displacement. The Joint System shall resistsdamage or deterioration from the impact of falling ice, exposure to UV,airborne contaminants and occasional foot traffic from maintenancepersonnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. Material shall confirm to ASTM 6063.		
29.1	Roof Joint of 100 mm gap	metre	7085.33
29.2	Roof Joint of 150 mm gap	metre	7522.14
29.3	Roof Joint of 200 mm gap	metre	7829.52
30	**6.0 BRICK WORK**		
	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:		
30.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	5480.85
30.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	5211.86
31	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :		
31.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	6315.35
31.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	6046.36
32	**HALF BRICK MASONRY**		
	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :		
32.1	Cement mortar 1:3 (1 cement : 3 coarse sand)	sqm	681.73
32.2	cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	651.59

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
33	Half brick masonry with common burnt clay F.P.S.(non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.		
33.1	Cement mortar 1:3 (1 cement :3 coarse sand)	sqm	771.99
33.2	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	741.90
33.3	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	sqm	77.44
34	**HONEY COMB WORK**		
34.1	Honey-comb brick work 10 / 11.4 cm thick with common burnt clay bricks of class designation 7.5 in super structure above plinth level upto floor V level with cement mortar 1:4 (1 cement : 4 coarse sand).	sqm	483.38
34.2	Extra for laying brick work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc complete.	cum/mtr depth	474.86
	NOTE :- The quantity will be calculated by multiplying the depth measured from sub - soil water level up to the centre of gravity of brick work under sub - water with the quantity of brick work in cum executed under the sub - soil water. The depth of centre of gravity shall be reckoned correct to 0.1m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.		
	Extra for laying brick work in or under foul position.	cum	191.88
35	**7.0 STONE WORK**		
	RANDOM RUBBLE MASONRY		
	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :		
35.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	4365.94
36	**(8.0 MARBLE & GRANITE WORK)**		
	Providing and fixing 18 mm thick gang saw cut, mirror polished, pre moulded and pre polished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.		
36.1	Granite of any colour and shade		
36.1.1	Area of slab upto 0.50 sqm	sqm	4307.88
36.2	Area of slab over 0.50 sqm	sqm	4354.02
36.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. Complete as per design approved by Engineer-in-Charge.		
36.3.1	Granite work	metre	256.90

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
37	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size)as per direction of Engineer-in-charge and finished smooth.		
37.1	Granite Stone of approved shade	sqm	3636.52
38	**9.0 WOOD & PVC WORK**		
	Note :- Wood work items may be substituted with available species of wood as per direction of Engineer-in-charge for which rates shall be derived from the relevant items.		
	FRAMES AND TRUSSES		
	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).		
38.1	Second class teak wood	cum	101955.00
38.2	Sal wood	cum	84194.95
	Providing and fixing paneled or paneled and glazed **shutters** for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding paneling which will be paid for separately, all complete as per direction of Engineer-in-charge.		
38.3	Second class teak wood		
38.4	35 mm thick shutters	sqm	2996.41
38.5	30 mm thick shutters	sqm	2681.34
	Providing and fixing **panelling** or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :		
38.6	Second class teak wood	sqm	2401.99
38.7	Float glass panes		
38.8	4mm thick glass pane	sqm	1316.77
	Providing and fixing glazed **shutters** for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.		
	Second class teak wood		
38.9	35 mm thick	sqm	3635.85
38.10	30 mm thick	sqm	3275.76
	Kiln seasoned and chemically treated hollock wood		
38.11	35 mm thick	sqm	2420.54

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
38.12	30 mm thick	sqm	2229.38
38.13	Providing and fixing 25 mm thick shutters for cup board etc. :		
	Panelled or panelled & glazed shutters :		
	Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws	sqm	3075.75
38.14	Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	sqm	3119.59
	Glazed shutters :		
38.15	Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws	sqm	3059.98
38.16	Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	sqm	3031.84
38.17	Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade I) or graded wood particle board IS : 3087 marked,to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately) :		
38.17.1	12 mm thick	sqm	589.02
38.17.2	18 mm thick	sqm	740.51
38.19	Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately).		
38.19.1	18 mm thick	sqm	1339.39
38.19.2	25 mm thick	sqm	1438.06
38.20	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:		
38.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	2127.81
38.20.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	1933.70
38.20.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	sqm	1651.56
38.21	Extra for Providing and fixing flush doors with decorative veneering instead of non-decorative ISI marked flush door shutters conforming to IS: 2202 (Part I)		
	On one side only	sqm	440.04
38.22	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	sqm	407.67
38.23	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	sqm	116.50

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
38.24	Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood Pre-laminated one side decorative lamination and other side balancing lamination Grade I, Type II, IS : 12823 marked, including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete :		
38.24.1	12 mm thick	sqm	1311.98
38.24.2	18 mm thick	sqm	1468.59
38.24.3	25 mm thick	sqm	1568.21
38.25	Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with :		
	Decorative veneer facings of approved manufacture	sqm	1288.35
38.26	Providing and fixing 4mm thick coir veneer board, ISI marked IS : 14842,plain lining with necessary screws, priming coat on unexposed surface etc., complete.	sqm	1086.44
38.27	Providing and fixing teak wood lipping of size 25x3 mm in pelmet.	metre	54.60
38.28	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.		
38.28.1	Fixed to steel windows by welding	kg	121.46
38.28.2	Fixed to openings /wooden frames with rawl plugs screws etc.	kg	130.26
38.29	Providing 40x5 mm flat iron **hold fas**t 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand:6 graded stone aggregate 20mm nominal size).	each	130.76
38.30	**BRIGHT FINISHED M.S. FITTINGS**		
38.30.1	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete :		
	125x65x2.12 mm	each	37.50
	COPER OXIDISED MILD STEEL FITTINGS (COPPER OXIDISED AS PER IS: 1378)		
38.31	Providing and fixing oxidised M.S. Safety chain with necessary fixtures		
	for doors, (weighting not less than 450 gms)	each	86.92
	STAINLESS STEEL FITTINGS		
38.32	Providing and fixing IS : 12817 marked stainless steel butt hinges with		
	stainless steel screws etc. complete :		
38.32.1	125x64x1.90 mm	each	125.30
	BRASS FITTINGS		
38.33	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	each	608.85

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
38.34	Providing and fixing bright finished brass 100 mm mortice latch with one dead bolt and a pair of lever handles of approved quality with necessary screws etc. complete.	each	531.19
38.35	Providing and fixing bright finished brass night latch of approved quality including necessary screws etc. complete.	each	751.21
38.36	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with necessary screws.	each	53.82
38.37	Providing and fixing bright finished brass handles with screws etc.complete:		
38.37.1	125 mm	each	203.30
38.37.2	100 mm	each	189.99
38.37.3	75 mm	each	151.15
38.38	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	each	95.50
38.39	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	each	839.90
38.40	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on he body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	each	1162.88
	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)		
38.41	Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:		
38.41.1	125x75x4 mm	each	121.29
38.41.2	125x63x4 mm	each	114.77
38.41.3	100x75x4 mm	each	103.74
	Note :- Aluminum hinges shall not be used in wooden shutters, stainless steel hinges shall be preferred.		
38.42	Providing and fixing aluminium sliding door bolts, ISI marked anodised anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :		
38.42.1	300x16 mm	each	255.90
38.42.2	250x16 mm	each	210.60

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
38.43	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :		
38.43.1	300x10 mm	each	124.91
38.43.2	250x10 mm	each	106.14
38.43.3	200x10 mm	each	88.31
38.43.4	150x10 mm	each	72.82
38.43.4	100x10 mm	each	58.33
38.44	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :		
38.44.1	125 mm	each	77.78
38.44.2	100 mm	each	61.40
38.44.3	75 mm	each	52.32
38.45	Providing and fixing aluminium hanging floor door stopper, ISI marked,anodised (anodic coating not less than grade AC 10 as per IS : 1868)transparent or dyed to required colour and shade, with necessary screws etc. complete.		
38.45.1	Single rubber stopper	each	41.79
38.45.2	Twin rubber stopper	each	93.55
38.46	Providing and fixing bright finished brass 100 mm mortice latch and lock,ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.	each	908.66
	GYPSUM BOARD PARTITIONS		
38.47	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineerin-charge.	each	519.21
38.48	Providing and fixing magnetic catcher of approved quality in cupboard /ward robe shutters, including fixing with necessary screws etc. complete.		
38.48.1	Triple strip vertical type	each	31.87
38.48.2	Double strip (horizontal type)	each	25.41
38.49	Providing and fixing powder coated telescopic drawer channels 300 mm long with necessary screws etc. complete as per directions of Engineerin-charge.	one set	221.69
38.50	Providing and fixing sliding arrangement in racks/ cupboards/cabinets shutter by with stainless steel rollers to run inside C or E aluminium channel section (The payment of C or E channel shall be made separately)	each	14.04

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
38.51	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ±1mm),with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineerin-charge		
38.51.1	Extruded section profile size 42x50 mm	metre	225.26
38.52	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineerin-Charge.	metre	511.41
38.53	Providing and fixing factory made panel PVC door shutter consisting of rame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S.frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail,paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent ement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.		
38.53.1	30 mm thick plain PVC door shutters	sqm	3063.88
38.54	Providing and fixing cup board shutters 25 mm thick, with Pre-laminated lat pressed three layer particle board or graded wood particle board IS:12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including IInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge	sqm	1816.03

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
38.55	Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make,including IInd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges,complete as per direction of Engineer-in-Charge.		
38.55.1	With decorative veneering on one side and commercial veneering on other side	sqm	1570.10
38.55.2	With non decorative veneering on both sides	sqm	1453.66
	10.0 STEEL WORK		
39	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	75.44
40	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	82.40
41	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer Using M.S. angels 40x40x6 mm for diagonal braces		
41.1	Using M.S. angels 40x40x6 mm for diagonal braces	sqm	3425.19
42	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.		
42.1	Hot finished welded type tubes	kg	114.66
43	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar,bent to shape with hooked ends in R.C.C. slabs or beams during laying,including painting the exposed portion of loop, all as per standard design complete.	each	138.67
44	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	kg	82.40
45	Providing and fixing bolts including nuts and washers complete.	kg	109.48
46	Steel work welded in built up sections/ framed work, including cutting,hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.		
46.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	100.40

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
47	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, on the 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 stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	690.20
48	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.		
48.1	Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides	sqm	599.83
48.2	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	sqm	1423.63
49	Providing & fixing glass panes with putty and glazing clips in steel doors,windows, clerestory windows, all complete with :		
49.1	4.0 mm thick glass panes	sqm	851.83
49.2	5.5 mm thick glass panes	sqm	1100.93
	11.0 FLOORING		
50	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks:		
50.1	1:4 (1 cement : 4 coarse sand)	sqm	748.81
50.2	1:6 (1cement : 6 coarse sand)	sqm	702.12
51	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.		
51.1	40 mm thick with 20 mm nominal size stone aggregate	sqm	393.74
	KOTA STONE FLOORING		
52	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :		
52.1	25 mm thick	sqm	1271.86
	CERAMIC GLAZED TILES		
53	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacturer), of approved make,in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	932.28

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
54	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey,Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc, complete.	sqm	875.17
	VITRIFIED FLOOR TILES		
55	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades,laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc.,complete.		
55.1	Size of Tile 600x600 mm	sqm	1566.65
56	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.	sqm	509.40
57	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness.	sqm	482.32
58	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.		
58.1	Size of Tile 600x600 mm	sqm	1577.18
59	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS:15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).		
	Size of Tile 500x500 mm	sqm	1710.39
59.1	Size of Tile 600x600 mm	sqm	1816.53
60	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge.		
60.1	Size of Tile 500x500 mm	sqm	248.99
60.2	Size of Tile 600x600 mm	sqm	209.43
61	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622 , of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).		
	Size of Tile 500x500 mm	sqm	1639.64

61.1	Size of Tile 600x600 mm	sqm	1745.77
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
62	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.	sqm	9.47
	12.0 ROOFING		
63	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement :4 coarse sand) and finished neat complete.	sqm	543.61
64	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	each	207.98
	RAIN WATER SPOUT AND PIPE		
65	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.		
65.1	75 mm diameter	metre	162.35
65.2	110 mm diameter	metre	258.13
66	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS :5382, leaving 10 mm gap for thermal expansion.		
66.1	Coupler		
66.1.1	75 mm	each	121.07
66.1.2	110 mm	each	154.11
66.2	Single pushfit Coupler		
66.2.1	75 mm	each	141.74
66.2.2	110 mm	each	192.94
66.3	Single tee with door		
66.3.1	75x75x75 mm	each	247.37
66.3.2	110x110x110 mm	each	341.64
66.4	Single tee without door		
66.4.1	75x75x75 mm	each	217.62
66.4.2	110x110x110 mm	each	276.96
66.5	Bend 87.5°		
66.5.1	75 mm bend	each	126.19
66.5.2	110 mm bend	each	180.02
66.6	Shoe (Plain)		

66.6.1	75 mm Shoe	each	187.04
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with Cl at Trichy @11.43% / market rate**
66.6.2	110 mm Shoe	each	328.83
67	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.		
67.1	75 mm	each	192.55
67.2	110 mm	each	210.66
68	Providing and fixing to the inlet mouth of rain water pipe **cast iron grating 15 cm diameter and weighing not less than 440 grams.**	each	45.80
69	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recomme-nded jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with		
69.1	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I	sqm	1010.78

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
70	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+0.05 %) total coated thickness with zinc coating 120 gram per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin-charge. The sheet shall be fixed using self drilling / self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	693.09
	13.0 FINISHING		
	Note :- Rates for external plaster are for height upto 10m from ground level unless otherwise stated.		
	CEMENT PLASTER (IN FINE SAND)		
71	12 mm cement plaster of mix :		
71.1	1:4 (1 cement: 4 fine sand)	sqm	182.02
71.2	1:6 (1 cement: 6 fine sand)	sqm	166.53
72	15 mm cement plaster on the rough side of single or half brick wall of mix :		
72.1	1:4 (1 cement: 4 fine sand)	sqm	211.05
72.2	1:6 (1 cement: 6 fine sand)	sqm	192.55
73	20 mm cement plaster of mix :		
73.1	1:4 (1 cement: 4 fine sand)	sqm	254.17
73.2	1:6 (1 cement: 6 fine sand)	sqm	230.10
74	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm	123.63
	POINTING ON STONE WORK		
75	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) :		
75.1	Flush/ Ruled pointing	sqm	170.32
75.2	Raised and cut pointing	sqm	308.33
	INTERIOR FINISHING		
76	White washing with lime to give an even shade :		
76.1	New work (three or more coats)	sqm	18.05
77	Distempering with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.		
77.1	Two or more coats on new work	sqm	56.44
78	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :		

78.1	Water thinnable cement primer	sqm	39.95
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
	EXTERIOR FINISHING		
79	Finishing walls with water proofing cement paint of required shade :		
79.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	sqm	64.46
80	Finishing walls with Acrylic Smooth exterior paint of required shade :		
80.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	sqm	100.29
81	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade :		
81.1	New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	sqm	105.80
82	Applying priming coat :		
82.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm	36.72
82.2	With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood	sqm	40.62
82.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	sqm	30.09
82.4	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	sqm	16.32
83	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :		
83.1	Two or more coats on new work	sqm	89.70
84	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :		
84.1	Two or more coats on new work	sqm	82.90
85	Painting with aluminium paint of approved brand and manufacture to give an even shade .		
85.1	Two or more coats on new work	sqm	73.32
	14.0 REPAIRS TO BUILDING		
86	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead :		
86.1	With cement mortar 1:4 (1 cement : 4 fine sand)	sqm	276.12

Item No.	Description	Unit	DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate
87	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground within 50 meters lead :		
87.1	Door chowkhats	each	881.13
87.2	Window chowkhats	each	543.05
88	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground.		
88.1	For door/ window/ clerestory window	sqm	550.52
89	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:		
89.1	Float glass panes of thickness 4 mm	sqm	769.65
90	Renewing glass panes, with wooden fillets wherever necessary:		
90.1	Float glass panes of thickness 4 mm	sqm	983.43
91	Renewing glass panes and refixing existing wooden fillets:		
91.1	Float glass panes of thickness 4 mm	sqm	818.45
92	Renewal of old putty of glass panes (length)	metre	25.80
93	Refixing old glass panes with putty and nails	sqm	335.13
94	Fixing old glass panes with wooden fillets (excluding cost of fillets)	sqm	294.96
95	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	29.58
96	Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for flat tile bricks on top of mud phaska :		
96.1	With F.P.S. brick tiles	sqm	64.52
	WOOD WORK		
97	Providing and fixing curtain rods of 1.25 mm thick brass plates with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete.		
97.1	20 mm diameter.	metre	236.12
97.2	25 mm diameter.	metre	261.97
98	Providing and fixing M.S. round or square bars with M.S. flats at required spacing in wooden frames of windows and clerestory windows.	kg	78.22
	FINISHING		
99	White washing with lime to give an even shade :		
99.1	Old work (two or more coats)	sqm	10.81

99.2	Old work (one or more coats)	sqm	6.63
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
100	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	sqm	8.47
101	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade :		
101.1	One or more coats on old work	sqm	58.50
102	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :		
102.1	One or more coats on old work	sqm	54.04
103	French spirit polishing :		
103.1	One or more coats on old work	sqm	109.48
104	Providing and fixing C.P. brass chain and rubber plug complete for sink or wash basin :		
104.1	32 mm dia	each	70.31
104.2	40 mm dia	each	70.31
105	Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. As per manufacturer's specification.		
105.1	One or more coats on old work	sqm	32.09
106	Finishing walls with water proofing cement paint of required shade :		
106.1	Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litrs/10 sqm complete including cost of Priming coat.	sqm	60.67
106.2	Old work (one or more coats @ 2.20 kg/10 sqm) complete.	sqm	41.17
107	Finishing walls with Acrylic Smooth exterior paint of required shade :		
107.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	sqm	74.99
107.2	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	sqm	48.86
108	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineerin-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.	sqm	178.18
	15.0 DEMANTLING AND DEMOLISHING		
109	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.		

109.1	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	cum	613.42
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
110	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	cum	1451.15
111	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.		
111.1	In cement mortar	cum	840.29
112	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :		
112.1	In cement mortar	cum	1002.70
113	Dismantling dressed stone work ashlar face stone work, marble work or precast concrete work manually/ by mechanical means including stacking of serviceable and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :		
113.1	In cement mortar	cum	1173.02
114	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :		
114.1	Of area 3 sq. metres and below	each	157.39
114.2	Of area beyond 3 sq. metres	each	216.01
115	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :		
115.1	Of area 3 sq. metres and below	each	61.06
115.2	Of area beyond 3 sq. metres	each	80.84
116	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead :		
116.1	Of sectional area 40 square centimetres and above	cum	1915.26
116.2	Of sectional area below 40 square centimetres	metre	7.63
117	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:		
117.1	R.S. Joists	kg	1.45
117.2	Channels, angles, tees and flats	kg	1.00
118	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	kg	2.40
119	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.		
119.1	For thickness of tiles 10 mm to 25 mm	sqm	31.42
119.2	For thickness of tiles above 25 mm and up to 40 mm	sqm	48.97

120	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	109.15
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
121	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	45.46
122	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of :		
122.1	G.S. Sheet	sqm	69.98
122.2	Asbestos sheet	sqm	32.87
123	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead :		
123.1	Thickness above 25 mm up to 40 mm	sqm	38.94
124	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead :		
124.1	Thickness up to 40 mm	sqm	119.84
124.2	Thickness above 40 mm up to 75 mm	sqm	179.51
125	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :		
125.1	75 to 80 mm dia pipe	metre	30.87
125.2	100 mm dia pipe	metre	31.87
125.3	150 mm dia pipe	metre	32.82
126	Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :		
126.1	bituminous road	sqm	177.23
127	Engineer-in-charge :Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :		
127.1	15 mm to 40 mm nominal bore	metre	64.46
127.2	Above 40 mm nominal bore	metre	72.71
128	Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge:		
128.1	Up to 150 mm diameter	metre	187.87
128.2	Above 150 mm dia up to 300 mm dia	metre	248.71
128.3	Above 300 mm diameter	metre	322.65
129	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unser-viceable materials within 50 metres lead.	each	394.96

130	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	22.34
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
131	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	sqm	24.35
132	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	cum	137.84
	16.0 ROAD WORK		
	ROADS		
133	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	sqm	90.58
134	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).	cum	11.31
135	Supplying and stacking at site.		
135.1	90 mm to 45 mm size stone aggregate	cum	1460.23
135.2	63 mm to 45 mm size stone aggregate	cum	1502.30
135.3	53 mm to 22.4 mm size stone aggregate	cum	1508.76
135.4	Over burnt (Jhama) brick aggregate 120 mm to 40 mm	cum	732.21
135.5	Over burnt (Jhama) brick aggregate 90 mm to 45 mm	cum	758.11
135.6	Red bajri	cum	1626.21
135.7	Good earth	cum	357.58
135.8	Moorum	cum	720.23
139	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .	cum	473.63
140	Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling. With road roller/ hand roller		
140.1	With road roller/ hand roller	sqm	16.60

141	Brick edging laid lengthwise with half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres :		
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
141.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	39.45
142	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.	sqm	471.13
143	Cutting road and making good the same including supply of extra quantities of materials i.e. aggregate, moorum screening, red bajri and labour required.		
143.1	bituminous portion	cum	2727.47
143.2	Water bound macadam	cum	1421.96
	FENCING		
144	Supplying at site :		
144.1	R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-incharge (cost of earth works in excavation, concrete works in foundation to be paid separately).	cum	22809.22
145	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used.		
145.1	With G.I. barbed wire	metre	9.36
146	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately). Payment to be made per metre cost of total length of barbed wire used.		
146.1	With G.I. barbed wire	metre	14.43
147	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	Kg.	79.00
	PAINTING ROAD / RUNWAY MARKING		
148	Painting runway/taxi track/apron marking with adequate nos of coats to give uniform finish with road marking paint of superior make as approved by the Engineer-in-charge, i/c cleaning the surface of all dirt, scales, oil, grease and other foreign material etc. and lining out complete.		
148.1	New work (Two or more coats)	sqm	121.79

148.2	Old work (One or more coats)	sqm	76.33
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with Cl at Trichy @11.43% / market rate**
149	Painting road surface marking with adequate nos of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade, including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete.		
149.1	New work (Two or more coats)	sqm	136.11
149.2	Old work (One or more coats)	sqm	88.70
	MISCELLANEOUS		
150	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	sqm	671.03
151	Providing and laying at or near ground level factory made **kerb stone** of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment).		
	(Precast C.C. kerb stone shall be approved by Engineer-in-charge).	Cum	5901.22
152	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.		
152.1	Made of G.I. wire of dia 4 mm	sqm	606.29
152.2	Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade	sqm	643.01
153	Dry stone pitching 22.5 cm thick laid in courses and required profile with hammer dressed stones having no side less than 15 cm, with minimum depth of 20 cm including preparing the bedding surface etc. all complete. (Payment for Stone to be made separately).	sqm	278.24
154	75 mm thick back filling for pitching including supplying of required materials and consolidation etc. complete with :		
154.1	Moorum	sqm	61.62
154.2	Stone aggregate 20 mm nominal size	sqm	133.72
154.3	Stone aggregate 40 mm nominal size	sqm	122.52
155	Taking out existing kerb stones of all types from footpath/ central verge, including removal of mortar etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	metre	15.99

156	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	sqm	53.82
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
157	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineerin-charge. (Old CC paver blocks shall be supplied by the department free of cost).	sqm	218.07
158	Laying at or near ground level old kerb stones of all types in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints, except at sharp curve, shall not be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of Engineer-in-charge. (Length of finished kerb edging shall be measured for payment). (Old kerb stones shall be supplied by the department free of cost)	metre	49.36
	17.0 SANITARY INSTALLATIONS		
159	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:		
159.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	3780.60
160	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :		
160.1	W.C. pan with ISI marked white solid plastic seat and lid Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass	each	3696.47
161	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required:		
161.1	White Vitreous China wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	each	2371.12
161.2	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	each	2013.65
162	Providing and fixing white vitreous china **pedestal** for wash basin completely recessed at the back for the reception of pipes and fittings.	each	1091.96
163	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :		

163.1	Kitchen sink with drain board		
163.1.1	510x1040 mm bowl depth 250 mm	each	7858.21
163.2	Kitchen sink without drain board		
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
163.2.1	610x510 mm bowl depth 200 mm	each	4839.91
164	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :		
164.1	Size 450x300x150 mm	each	2611.81
164.2	Size 600x450x200 mm	each	3524.25
165	Providing and fixing white vitreous china water closet squatting pan (Indian type) :		
165.1	Orissa pattern W.C. pan of size 580x440 mm	each	1565.93
166	Extra for using coloured W.C. pan instead of white W.C. pan :		
166.1	Orissa pattern W.C. pan 580x440 mm	each	698.89
167	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	each	1462.41
168	Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.	each	1611.33
169	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.		
169.1	10 litre capacity - White	each	963.93
169.2	10 litre capacity - coloured	each	1026.33
170	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :		
170.1	White solid plastic seat with lid	each	457.98
171	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm or 340x410x265 mm sizes respectively.	each	992.95
172	Providing and fixing P.V.C. waste pipe for sink or wash basin including		
172			
172.1	Providing and fixing P.V.C. waste pipe for sink or wash basin includingSemi rigid pipe		
172.1.1	32 mm dia	each	85.52
172.1.2	40 mm dia	each	92.04
173	Flexible pipe		
173.1	32 mm dia	each	82.96

173.2	40 mm dia	each	85.52
174	Providing and fixing 100 mm sand cast Iron grating for gully trap.	each	32.87
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
175	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	884.70
176	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :		
176.1	Rectangular shape 453x357 mm	each	811.10
177	Providing and fixing vitreous china dual purpose closet suitable for use as squatting pan or European type water closet (Anglo Indian W.C pan) with seat & lid fixed with C.P. brass hinges and rubber buffers, 10 litre low level flushing cistern with fitting and brackets, 40 mm flush bend, 20 mm over flow pipe, with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:		
177.1	White vitreous china dual purpose WC pan with white solid plastic seat and lid with white vitreous china flushing cistern and C.P. flush bend.	each	7254.76
178	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.		
178.1	Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms	each	126.97
178.2	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	each	160.63
179	Providing and fixing PTMT Bottle Trap for Wash basin and sink.		
179.1	Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	each	551.47
179.2	Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms	each	577.37
180	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	each	255.01
181	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	each	243.47

182	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.		
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with Cl at Trichy @11.43% / market rate**
182.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	each	538.71
182.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms	each	603.39
	18.0 WATER SUPPLY		
	C.P.V.C. PIPES		
183	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.		
	Internal work - Exposed on wall		
183.1	15 mm nominal outer dia Pipes	metre	182.19
183.2	20 mm nominal outer dia Pipes	metre	212.33
183.3	25 mm nominal outer dia Pipes	metre	257.74
183.4	32 mm nominal outer dia Pipes	metre	330.61
183.5	40 mm nominal outer dia Pipes	metre	454.52
183.6	50 mm nominal outer dia Pipes	metre	648.02
184	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.		
	Concealed work, including cutting chases and making good the walls		
184.1	15 mm nominal outer dia Pipes	metre	300.86
184.2	20 mm nominal outer dia Pipes	metre	330.28
184.3	25 mm nominal outer dia Pipes	metre	391.45
184.4	32 mm nominal outer dia Pipes	metre	470.68

185	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.		
	External work		
185.1	15 mm nominal outer dia Pipes	metre	160.07
185.2	20 mm nominal outer dia Pipes	metre	181.97
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
185.3	25 mm nominal outer dia Pipes	metre	233.45
185.4	32 mm nominal outer dia Pipes	metre	292.34
185.5	40 mm nominal outer dia Pipes	metre	390.56
185.6	50 mm nominal outer dia Pipes	metre	584.00
186	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.		
	Internal work - Exposed on wall		
186.1	15 mm dia nominal bore	metre	239.69
186.2	20 mm dia nominal bore	metre	277.79
186.3	25 mm dia nominal bore	metre	338.91
186.4	32 mm dia nominal bore	metre	382.43
186.5	40 mm dia nominal bore	metre	474.30
186.6	50 mm dia nominal bore	metre	587.46
187	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.		
	External work		
187.1	15 mm dia nominal bore	metre	207.54
187.2	20 mm dia nominal bore	metre	233.95
187.3	25 mm dia nominal bore	metre	286.71
187.4	32 mm dia nominal bore	metre	313.17
187.5	40 mm dia nominal bore	metre	372.34
187.6	50 mm dia nominal bore	metre	445.16
187.7	65 mm dia nominal bore	metre	584.17
187.8	80 mm dia nominal bore	metre	709.86
188	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :		
188.1	25 to 40 mm nominal bore	each	409.78
188.2	50 to 80 mm nominal bore	each	848.09

189	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).	each	351.56
	BRASS FITTINGS		
190	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :		
190.1	25 mm nominal bore	each	477.87
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
190.2	32 mm nominal bore.	each	558.82
190.3	40 mm nominal bore	each	652.42
190.4	50 mm nominal bore	each	836.56
191	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :		
191.1	15 mm nominal bore	each	321.48
191.2	20 mm nominal bore	each	456.75
191.3	25 mm nominal bore	each	501.38
192	Providing and fixing gun metal non- return valve of approved quality (screwed end) :		
192.1	25 mm nominal bore		
192.1.1	Horizontal	each	458.26
192.1.2	Vertical	each	497.09
193	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :		
193.1	100 mm diameter		
193.1.1	Class II	each	4369.50
193.2	125 mm diameter		
193.2.1	Class II	each	5173.86
193.3	150 mm diameter		
193.3.1	Class II	each	6344.82
193.4	200 mm diameter		
193.4.1	Class II	each	12902.48
193.5	250 mm diameter		
193.5.1	Class II	each	20637.56
193.6	300 mm diameter		
193.6.1	Class II	each	25657.43

194	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :		
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
194.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	1290.08
195	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :		
195.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	7526.32
196	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :		
196.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	13006.49
197	Constructing masonry Chamber 120x120x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :		
197.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	17934.76
198	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat, both of approved quality for new work :		
198.1	15 mm diameter pipe	metre	10.70

198.2	20 mm diameter pipe	metre	12.65
198.3	25 mm diameter pipe	metre	16.66
198.4	32 mm diameter pipe	metre	19.72
198.5	40 mm diameter pipe	metre	23.40
198.6	50 mm diameter pipe	metre	27.58
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
199	Repainting G.I. pipes and fittings with synthetic enamel white paint with one coat of approved quality :		
199.1	15 mm diameter pipe	metre	5.52
199.2	20 mm diameter pipe	metre	6.41
199.3	25 mm diameter pipe	metre	8.25
199.4	32 mm diameter pipe	metre	9.75
199.5	40 mm diameter pipe	metre	11.31
199.6	50 mm diameter pipe	metre	13.37
200	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :		
200.1	15 mm diameter pipe	metre	6.46
200.2	20 mm diameter pipe	metre	7.63
200.3	25 mm diameter pipe	metre	9.75
200.4	32 mm diameter pipe	metre	11.59
200.5	40 mm diameter pipe	metre	13.20
200.6	50 mm diameter pipe	metre	15.77
200.7	65 mm diameter pipe	metre	19.44
200.8	80 mm diameter pipe	metre	22.56
201	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :		
201.1	15 mm nominal bore	each	184.14
201.2	20 mm nominal bore	each	210.05
201.3	25 mm nominal bore	each	222.97
201.4	32 mm nominal bore	each	268.27
201.5	40 mm nominal bore	each	352.40
201.6	50 mm nominal bore	each	437.25
201.7	65 mm nominal bore	each	709.03
201.8	80 mm nominal bore	each	812.60

202	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :		
202.1	15 mm nominal bore	each	401.71
202.2	20 mm nominal bore	each	427.56
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
202.3	25 mm nominal bore	each	440.48
202.4	32 mm nominal bore	each	485.83
202.5	40 mm nominal bore	each	569.91
202.6	50 mm nominal bore	each	733.88
202.7	65 mm nominal bore	each	1005.71
202.8	80 mm nominal bore	each	1109.23
203	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	per litre	8.08
	C.P. BRASS F ITTINGS		
204	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :		
204.1	15 mm nominal bore	each	512.02
205	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.		
205.1	15 mm nominal bore	each	887.76
206	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.		
206.1	15 mm nominal bore	each	680.45
207	Providing and fixing C.P. brass stop cock (concealed) of standard design		
	and of approved make conforming to IS:8931.		
207.1	15 mm nominal bore	each	690.59
208	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore		
208.1	15mm nominal bore	each	565.73
	PTMT FITTINGS		
209	Providing and fixing PTMT bib cock of approved quality and colour.		

209.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	each	173.89
209.2	15 mm nominal bore, 122mm long, weighing not less than 99gms	each	190.71
209.3	15 mm nominal bore, 165 mm long, weighing not less than 110 gms	each	225.65
209.4	15 mm nominal bore, 90 mm long, weighing not less than 93 gms	each	206.26
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
210	Providing and fixing PTMT stop cock of approved quality and colour.		
210.1	15 mm nominal bore, 86 mm long, weighing not less than 88 gms	each	173.89
210.1	20 'mm nominal bore, 89 mm long, weighing not less than 88 gms	each	212.72
210.2	Concealed stop cock, 15 mm nominal bore, 108 mm long, weighing not less than 108 gms	each	223.08
211	Providing and fixing PTMT pillar cock of approved quality and colour .		
211.1	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	each	254.84
211.2	15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms	each	332.51
212	Providing and fixing PTMT grating of approved quality and colour.		
212.1	Circular type		
212.1.1	100 mm nominal dia	each	54.88
213	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.		
213.1	15 mm nominal bore, 105 mm long, weighing not less than 138 gms	each	259.35
213.2	20 mm nominal bore, 120 mm long, weighing not less than 198 gms	each	318.24
213.4	25 mm nominal bore, 152mm long, weighing not less than 440gms	each	617.88
214	Providing and fixing PTMT angle stop cock 15mm nominal bore,weighing not less than 85gms	each	212.72
215	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms	each	157.95
216	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	each	183.80

217	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts,		
	collar and bush of approved quality and colour.		
217.1	15 mm nominal bore with 30cm length	each	69.59
217.2	15 mm nominal bore with 45 cm length	each	83.24
218	Cutting holes up to 30x30 cm in walls including making good the same:		
218.1	With common burnt clay F.P.S. (non modular) bricks	each	231.71
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
219	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	each	215.05
	19.0 DRAINAGE **19.1**		
	NOTE : - The rates given for all the items under sub-head ' Drainage' are applicable to work executed in soils above sub- soil water level. Extra		
	allowance has to be made for work under sub- soil water level.		
	STONE WARE PIPES AND FITTINGS		
220	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :		
220.1	100 mm diameter	metre	230.16
221	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :		
221.1	100 mm diameter S.W. pipe	metre	660.33
222	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame o f 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:		
222.1	100x100 mm size P type		
222.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1750.84
222.1.2	With Sewer bricks conforming to IS : 4885	each	1829.35
223	150 x 100 mm size P type		
223.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1776.58

224	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :		
224.1	300 mm dia. R.C.C. pipe	metre	564.23
224.2	450 mm dia. R.C.C. pipe	metre	786.58
224.3	600 mm dia. R.C.C. pipe	metre	1537.12
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
225	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :		
225.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 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) :		
225.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	9479.35
226	Extra for depth for manholes :		
226.1	Size 90x80 cm		
226.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	6282.65
227	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :		
227.1	With 20x20 mm square bar	each	306.99
227.2	With 20 mm diameter round bar	each	269.72
228	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality 19.19.1 L D- 2.5		
228.1	Rectangular shape 600x450 mm internal dimensions	each	1261.05
229	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :		
229.1	For pipes 100 to 250 mm diameter	each	406.27
229.2	For pipes 250 to 300 mm diameter	each	486.06

230	Dismantling of manhole including R.C.C. top slab, C.I. cover with frame, including stacking of useful materials near the site and disposal of unserviceable materials into municipal dumps within 50 m lead :		
230.1	Rectangular manhole 90x80 cm and 45 cm deep	each	1044.38
230.2	Rectangular manhole 120x90 cm and 90 cm deep	each	1833.86
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
231	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately) :		
231.1	Rectangular manhole 90x80 cm with rectangular cover 600 ×450 mm of grade LD - 2.5	each	1779.70
231.2	Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10	each	2789.71
	(21.0 ALUMINIUM WORK)		
232	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) :		
232.1	For fixed portion		
232.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	388.33
232.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	420.93
232.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)		
232.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	452.29
232.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	485.56
232.3	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.		
232.3.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side	sqm	1159.93

232.3.2	Pre-laminated particle board with decorative lamination on both sides	sqm	1214.31
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
233	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):		
233.1	With float glass panes of 5.50 mm thickness	sqm	1174.70
234	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	each	466.50
235	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineerin-charge		
235.1	Anodized (AC 15) aluminium	each	73.10
235.2	Powder coated minimum thickness 50 micron aluminium	each	80.90
	(22.0 WATER PROOFING)		
236	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	sqm	315.46
	25.0 CONSERVATION OF HERITAGE BUILDINGS		
237	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge. Note:- (1) The elevational area of the scaffolding shall be measured for payment purpose. (2) The payment will be made once only for execution of all items for such works.	sqm	178.18

238	**Labour charges for manpower shall be available on call within 24 hours notice to maintain as and when required at Offices, hostels and residential quarters and attending to repairs with the maintenance staff with all helpers, tools and plants as directed the Engineer-in-charge as below :**		
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
238.1	Fitter - gr 1 (Plumber) - 2 Nos	1 day	484.72
238.2	Coolie (Helper) - 3 Nos	1 day	366.60
238.3	*Carpenter 1st class -1 No*	*1 day*	*484.72*
238.4	Mistry (Supervisor) - 1 No	1 day	484.72
238.5	Assistant Fitter or 2nd class fitter (Sewerman) - 2 No	1 day	444.61
238.6	Mason I class	1 day	484.72
238.7	Painter	1 day	444.61
	MARKET RATE		
239	Providing and fixing of single side polished cuddapah slabs for kitchen platforms over 20mm thick base in cm 1:4 (1cement : 4sand) with joints treated walls cement mortar mixing with pigment as per the direction of Engineer-in-charge. For 25mm to 40mm thick	sqm	756.00
240	Providing and fixing of 75mm dia (Finolex or Avonplast- 6kg/cm2) Unplasticised Rigid PVC soil pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes	Mtr	198.00
241	Providing and fixing of 110mm dia (Finolex or Avonplast-6kg/cm2)Unplasticised Rigid PVC soil pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes	Mtr	279.00
242	Providing and fixing on wall face Unplasticised - PVC moulded fittings/ accessories for Unplasticised Rigid PVC pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion a) 75 mm dia PVC plain elbow (Finolex or equivalent make)	Each	101.00
243	Providing and fixing on wall face Unplasticised - PVC moulded fittings/ accessories for Unplasticised Rigid PVC pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion a) 75 mm dia PVC Door elbow (Finolex or equivalent make)	Each	112.00
244	Providing and fixing on wall face Unplasticised - PVC moulded fittings/ accessories for Unplasticised Rigid PVC pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion a) 110 mm dia PVC plain elbow (Finolex or equivalent make)	Each	147.00

245	Providing and fixing on wall face Unplasticised - PVC moulded fittings/ accessories for Unplasticised Rigid PVC pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion a) 110 mm dia PVC Door elbow (Finolex or equivalent make)	Each	155.00
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**
246	Removing and refixing door shutters up to 0.90mx2.10m size including planing the top and bottom face up to 10mm including fixing with stainless steel screws etc., complete as directed by the Engineer -in -charge.(Cost of new hinges shall be paid separately wherever required)	Each	235.00
247	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge./ Made of G.I. wire of dia 2 mm	sqm	240.00
248	Providing and fixing of Caddapah sink of size 60x45x20cm,32 mm C.P. brass waste of standard pattern including 32 mm dia semi rigid PVC waste pipe etc and making good the walls wherever required	Each	1110.00
249	Providing and fixing water meter (mechanical type) with ISI make including cost & conveyance of pipe to the site of work as per the direction of Engineer-in-charge **a) 25 mm dia nominal bore**	Each	5550.00
250	Providing and fixing water meter (mechanical type) with ISI make including cost & conveyance of pipe to the site of work as per the direction of Engineer-in-charge **a) 40 mm dia nominal bore**	Each	11290.00
251	Providing and fixing water meter (mechanical type) with ISI make including C.I. dirt box strainer for bulk type water meter with nuts, bolts, rubber insertions including cost & conveyance of pipe to the site of work as per the direction of Engineer-in-charge **a) 50 mm dia nominal bore**	Each	14165.00
252	Earth work excavation & depositing on bank with initial lead of 10m and lift of 2min all classes by soil in narrow trenches for pipe laying work including cost & conveyance of PVC rigid pipes (True Bore / Jain pipes) and specials and lowering in to trenches and laying to proper grade and alignment & jointing with PVC couplers with jointing materials and testing to the required pressure including conveyance of water for filling during testing and refilling the trenches with excavated earth on completion of work For depth up to 2m External work : 63mm OD PVC 6KSC Pipes	Mtr	284.00
253	Earth work excavation & depositing on bank with initial lead of 10m and lift of 2min all classes by soil in narrow trenches for pipe laying work including cost & conveyance of PVC rigid pipes with ISI Make and specials and lowering in to trenches and laying to proper grade and alignment & jointing with PVC couplers with jointing materials and testing to the required pressure including conveyance of water for filling during testing and refilling the trenches with excavated earth on completion of work For depth up to 2m External work : 75mm OD PVC 6KSC Pipes	Mtr	311.00
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% /**

			market rate
254	Earth work excavation & depositing on bank with initial lead of 10m and lift of 2min all classes by soil in narrow trenches for pipe laying work including cost & conveyance of PVC rigid pipes with ISI Make and specials and lowering in to trenches and laying to proper grade and alignment & jointing with PVC couplers with jointing materials and testing to the required pressure including conveyance of water for filling during testing and refilling the trenches with excavated earth on completion of work For depth up to 2m External work : 90mm OD PVC 6KSC Pipes	Mtr	300.00
255	Earth work excavation & depositing on bank with initial lead of 10m and lift of 2min all classes by soil in narrow trenches for pipe laying work including cost & conveyance of PVC rigid pipes with ISI Make and specials and lowering in to trenches and laying to proper grade and alignment & jointing with PVC couplers with jointing materials and testing to the required pressure including conveyance of water for filling during testing and refilling the trenches with excavated earth on completion of work For depth up to 2m External work : 75mm OD PVC 6KSC Pipes	Mtr	301.00
256	Earth work excavation & depositing on bank with initial lead of 10m and lift of 2min all classes by soil in narrow trenches for pipe laying work including cost & conveyance of PVC rigid pipes (True Bore / Jain pipes) and specials and lowering in to trenches and laying to proper grade and alignment & jointing with PVC couplers with jointing materials and testing to the required pressure including conveyance of water for filling during testing and refilling the trenches with excavated earth on completion of work For depth up to 2m External work : 110mm OD PVC 6KSC Pipes	Mtr	466.00
257	Attending to leak at roof slab and wall joint. The scope of work includes clearing the tiled terrace surfaces to be free of dust, loose particles, algae growth and atmospheric deposits, filling small blow holes if any with CERAFIL 45/ TEC TILE 12/ Sika Grout/NACC Tile Grout/Dr. Fixit Crack-X and providing primer and top coat of CERAFLEX/TEC WAVE 3000/Sika Raingard/NACC High Flex single component/Dr. Fixit New Coat highly flexible membrane coating including curing adequately .All as per manufacture's recommendation/ standard specifications and instructions of Engineer-in charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges etc. Complete – for In accessible areas One Primer and one top coat	sqm	335.50
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**

258	Attending to leak at roof slab and wall joint. The scope of work includes clearing the tiled terrace surfaces to be free of dust, loose particles, algae growth and atmospheric deposits, filling small blow holes if any with CERAFIL 45/ TEC TILE 12/ Sika Grout/NACC Tile Grout/Dr. Fixit Crack-X and providing primer and top coat of CERAFLEX/TEC WAVE 3000/Sika Raingard/NACC High Flex single component/Dr. Fixit New Coat highly flexible membrane coating including curing adequately .All as per manufacture's recommendation/ standard specifications and instructions of Engineer-incharge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges etc. Complete. -for In accessible areas. One primer and two top coats	sqm	518.30
259	Providing two coats of CERALASTIC/TEC WAVE 2000/Sika raingard/NACC roof coating /Dr. FIXIT PIDIFIN 2K water proofing membrane coating followed by one bond coat of CERA BOND SBR/TEC BOND SBR/Sika latex/NACC Latex / Dr. FIXIT PIDICRETE URP SBR LATEX over the membrane coating and providing cement plastering 6mm thick in CM 1:4 admixed with general purpose water proofing compound of respective products and curing adequately. All as per manufacturer's recommendation / standard specifications and instructions of Engneer-in-charge. The scope of work includes dismantling the existing damaged weathering course and tiles to expose to the RCC slab and finishing to match with the existing weathering course.. Rate quoted includes cost of all materials including cement, labour charges, conveyance, tools and all other incidental charges etc., complete. Replacing the damaged tiles and re-pointing where ever required which will be paid under separate item.- For accessible Areas	sqm	360.17
260	Attending crack filling at parapet level with pressure grouting: The scope of work includes routing out the cracks with a mechanically operated groove cutter and sealing the groove with flexible sealant - CERA CRACK FILLER/TEC KRACK FILLER/Sika CRACK SEAL/NACC CRACK FILLER/Dr.FIXIT CRACK-X PASTE and allowing the sealant to set overnight, driving grouting nozzles at intervals of 1M and grouting neat cement slurry admixed with expansive grouting additive CERA EXPAN 250/TEC SWELL/Sika INTRA PLAST/NACC EXPAN/Dr. FIXIT PIDICRETE AM 250 and providing two coats of CERAFLEX/TEC WAVE 3000/Sika RAINGARD/NACC HIGH FLEX / Dr. FIXIT NEW COAT roof coating single component flexible membrane for a width of 15cms aligned to the centre of the crack. All as per manufacturers recommendations / standard specifications and instructions of Engineer-in charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges etc., complete, including cement	sqm	154.05
Item No.	**Description**	**Unit**	**DSR 2014 Rate loaded with CI at Trichy @11.43% / market rate**

261	Attending Crack filling at parapet level without pressure grouting. The scope of work includes routing out the cracks with a mechanically operated groove cutter and sealing the groove with flexible sealant - CERA CRACK FILLER/TEC KRACK FILLER/Sika CRACK SEAL/NACC CRACK FILLER/Dr.FIXIT CRACK-X PASTE and providing two coats of CERAFLEX/TEC WAVE 3000/Sika RAIN GARD/NACC ROOF COATING/Dr. FIXIT NEW COAT highly flexible membrane for a width of 10cms aligned to the centre of the crack. All as per / manufacturers recommendations/ standard specifications and instructions of Engineer-in-charge. Rate quoted includes cost of all materials, labour charges, conveyance, tools and all other incidental charges, etc. complete.	RM	112.75
	Contractor's Service Charges (establishment, profit, overheads) either at **MINUS ----------% OR AT PAR OR PLUS----------%** **(Bidder is to select any one of the above, clearly striking out the other- The offer will be summarily rejected if found conflicting)** **(QUOTED PERCENTAGE IN WORDS)**		
	(…… % Only)		
	Applicable to all the above individual rates of items separately or in combination with any item for any quantity and as such the quote by the agency confirms to carry out any item or combination of any item for any quantity without any reservation.		
	NOTE:-1) Other than the above mentioned items, additional items can be executed and billed for as extra items at DSR rates loaded with CI @11.43% Plus accepted service charges quoted in the tender towards establishment, overheads and profits. 2) Market Rate-shall be the rate as decided by the Engineer-in-charge on the basis of the cost of materials and labour at the site where the work is to be executed "Plus accepted service charges. 3)The contract may be allotted to a maximum of three agencies as indicated elsewhere in the tender by counter offering the lowest acceptable percentage to the next level tenderer and on award to have uniform rates for operation. The contractor is required to carry out combination of any item to any quantity without any reservation and anywhere within NITT.		

TENDER

To

The Director,
National Institute of Technology
TIRUCHIRAPPALLI –620 015.

I / We hereby offer to carry out the work of **Annual Maintenance on repair and renovation of Civil works at NITT, Trichy**

I / We hereby carefully perused the following documents connected with the above noted work and agree to abide by the same.

1.Specifications (General & Particular)
2.Drawings
3.Schedule 'A',
4.Bill of Quantities
5.CPWD works Manual in force.

I / We forward herewith the sum of Rs……as Earnest Money, which shall be refunded should this tender be rejected. I / We further agree to deposit such sum which along with the sum of Rs……mentioned above shall make up 50% of the fully Security Deposit for this work as provided for under conditions of the NATIONAL INSTITUTE OF TECHNOLOGY General Conditions of Contract.

I / We further agree to execute all the work referred to in the said documents upon the terms & conditions contained or referred therein and as detailed in Schedule 'A' and Bill of Quantities thereto and to carry out such deviations as may be ordered, vide conditions of the NITT upto a maximum of 30% of the tendered amount of Rs……

I / We further agree to refer all disputes, as required to the sole arbitration of an Officer, to be appointed by the Director, NITT., in his sole discretion whose decision shall be final and binding.

WITNESS Signature of the Contractor

Date :

1. ……..

2. ……..

CONTRACTOR **ACCEPTING OFFICER**

Enclosure I

COMPLAINT REGISTRATION FORM

Date:
Time:
Nature of complaint:

Complainant _____

Signature _____

Complaint attended.

Date

Time: From To

Certified that the complaint has been satisfactorily attended.

Contractor Complainant

Date:

To be submitted along with running bills.

Enclosure -II

MAINTENANCE COMPLAINT REGISTER

Sl. No	Date & time	Complainant with address	Nature of complaint in brief	Complaint attended & date	Remarks	Signature of the contractor