

# **TECHNOLOGY DEVELOPMENT BOARD**

[A Statutory Body of Department of Science & Technology, Government of India]  
Wing A, Ground Floor, Vishwakarma Bhawan, Shaheed Jeet Singh Marg, New Delhi-  
110016

Tender No: TDB/Sec-15/Office Space/2016

Dated: 30.06.2017

## **TENDER NOTICE FOR INTERIOR WORK**

Technology Development Board (TDB), Wing A, Vishwakarma Bhawan, Shaheed Jeet Singh Marg, New Delhi invites sealed Tenders (Technical and Financial) for Interior work for its office at Fertilizer Association of India (FAI), building situated at Shaheed Jeet Singh Marg, New Delhi.

Registered firms may download the tender documents from TDB's official website [www.tdb.gov.in](http://www.tdb.gov.in). Both the tenders, complete in all respects should be placed in a sealed cover super scribed as "**tenders for interior work for TDB office at FAI building**" and may be submitted in person and shall be received in the inward receipt counter of the office or by post/ courier etc., on or before **20<sup>th</sup> Jul, 2017 (till 1.00 pm)**. Offers received beyond the specified date / time shall not be entertained and this office shall not be responsible for any delay in receipt or loss of documents sent by post/ courier etc.

### **Guidelines for submitting Tender Forms**

1. The tender form should be complete in all respect and no item be kept blank.
2. All the relevant papers like Audited Balance Sheet, Certificate by Competent Authority for the constitution of the firm/company, details of work completed, experience certificate etc. be enclosed with the tender form.

Enclosures:-

- (i) Tender Document
- (ii) BOQ
- (iii) Drawings
- (iv) Reference Images

## TENDER DOCUMENT

NAME OF THE PROJECT : Interior work for Technology Development Board Office at FAI Building, ShaheedJeet Singh Marg, New Delhi-110016

EARNEST MONEY DEPOSIT : **Rs 1,40,000 (Refundable)**

LAST DATE & TIME OF SUBMISSION OF TENDER : **20.07.2017** up to 1:00 pm

DATE & TIME OF OPENING OF TENDER : **20.07.2017** at 3:00 pm

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## NOTICE OF INVITATION OF TENDER

**Reg:** Interior work for **Technology Development Board**, at FAI Building, ShaheedJeet Singh Marg, New Delhi-110016

### 1.1 **SUBMISSION OF TENDERS:**

The tender are to be submitted in two separate envelopes (Technical and Financial bid) each sealed and clearly super scribed as to envelope and contents as indicated below.

Both the envelopes shall be contained in a large envelope super scribed "Tender for Interior work for **Technology Development Board**, at FAI Building, ShaheedJeet Singh Marg, New Delhi-110016".

### 1.2 **Mode of Submission of Tender:**

- (i) In **First Sealed Cover** super scribed with **Part – I(Technical Bid)**: It will comprise Eligibility Criteria & documents mentioned in Bidder's information.
- (ii) In **Second Sealed Cover** super scribed with **Part – II (Price Bid)**: It will comprise price bid. It shall contain Schedule of Quantities and prices duly filled in and Drawings signed on each page by the tenderer.
- (iii) In **Third Sealed Cover** super scribed with Name of work, Date & Time of Submission, Name & address of the Bidder will comprise of both First Sealed cover (**Part – I**) and Second sealed cover (**Part – II**) and a **Sealed Cover** with the **Earnest Money**.

### 1.3 **Earnest Money.**

The applicant shall have to deposit earnest money, deposit in the form of DD/pay order for Rs. 1,40,000/- (Rupees One Lakh Forty Thousand Only) In favor of **TECHNOLOGY DEVELOPMENT BOARD**, payable at New Delhi. The earnest money deposit by way of Demand Draft/ Pay order must accompany the tender. Tender not accompanied by the earnest money deposit by demand draft are liable to be rejected as NON- RESPONSIVE.

- 1.4 Tenderer have to return the entire document downloaded from the TDB website alongwith drawing while submitting their tender duly stamped and signed as per instruction on each page. Tenders received after the last date and time of submission on account of any reason whatsoever and telegraphic tenders will not be entertained.
- 1.5 The tender shall be valid for a period of not less than 90 days after the date of opening.
- 1.6 For any further information on the tender/ drawing, the Under Secretary, Technology Development Board Office at Wing-A, Ground Floor, Viswakarma Bhawan, ShaheedJeet Singh Marg, New Delhi-110016, may be contacted on any working day. The site may also be inspected on any working day from **02.07.2017** (Between 10.00 AM to 5.00 PM) upto **18.07.2017**.
- 1.7 The TDB will not be bound to accept the lowest tender and reserve the right to accept or reject any or all the tenders without assigning any reasons whatsoever.
- 1.8 The tenderer shall indicate no commercial or technical condition or qualification of any sort in the tender otherwise the tender shall be liable to be rejected summarily.

## **ELIGIBILITY CRITERIA**

This invitation of bid is open to all Indian companies having their office in Delhi and Delhi NCR and who fulfill the other eligibility criteria as mentioned below.

1. Bidder should be experienced Vendor. If a bidder is a company copy of Memorandum and Article of association Certificate of commencement of Business (if applicable) to be submitted. In case of partnership firm, Partnership Deed Duly registered with registrar of firms or any other registration document like sales tax, income tax to be submitted. In case of sole proprietorship the copy of registration with sales tax, income tax to be submitted.
2. The bidder should furnish Solvency certificate from the bankers equal to the amount of work to be undertaken.
3. Bidder should have average annual turnover of at least Rs 100 lakh during the last 3 years. Bidder to submit the audited Balance sheets along with Trading Profit & Loss Account statement and ITRs of the last three financial years.
4. Bidder should have experience of having successfully completed similar works (Central Govt./ Public Sector organization/ reputed organization) during the last 5 years ending 31 March 2017 and should have completed two to three similar works.
5. Bidder to submit copy of orders, completion certificate for completion of awarded work and performance certificate from employer as evidence of satisfactory completion of work.

## **BIDDER'S INFORMATION**

1. Name of the Organization
2. Address
3. Year of Establishment
4. Status of the firm  
(Whether Company/Firm/Proprietary)
5. Name of Directors/Partners/Proprietor
  - i)
  - ii)
  - iii)
  - iv)
6. Whether registered with the Registrar of Companies/Registrar of Firms. If so, mention number and date.
7. a) Name and address of Bankers
  - i) ii)
  - iii) iv)

b) Enclose Solvency Certificate from the Bankers.
8. Whether registered for sales tax purpose. If so, mention number and date. Furnish also copies of latest sales tax assessment.
9. Whether an assessee of Income Tax. If so, mention permanent account number. Furnish copies of latest Income Tax assessment.
10. Furnish copies of audited Balance Sheet and Profit & Loss Account (audited) & ITRs for the last three years.
11. If you are registered in the panel of other organizations/ statutory bodies, such as CPWD, PWD, MES, Banks, state/ central government Organizations, Public Sector Undertakings etc., furnish their names, category and date of registration.
  - i) ii)
  - iii) iv)
  - v) vi)
12. What are your fields of activity? Mention the fields on preference basis.
  - i) ii)
  - ii) iv)
  - v) vi)

13. Detailed description and value of works done in the past 5 years (as per Performa 1).
14. Specify the maximum value of work executed in a year.
15. Furnish the names and contact details of three responsible persons who will be in a position to certify about the quality as well as past performance of your organization.

- i)
- ii)
- iii)

Note: Where copies are required to be furnished these is to be certified copies preferably by the concerned agencies or a Government Officer.

16. Average annual financial turnover during the last 3 years ending 31<sup>st</sup> March of the current financial year.

**PROFORMA – 1**

**PARTICULARS IN RESPECT OF WORK EXECUTED**

S.No.	Name of Work/ Project with Address	Short Description on Work Executed	Name & Address of Owner with Tel No.	Value of Work Executed	Stipulated time of completion	Actual time of Completion	Name of Architect/ Consulting Engineer, Address & Tel No.
1	2	3	4	5	6	7	8

**PROFORMA – 2**

**KEY PERSONNEL PERMANENTLY EMPLOYED**

S.no.	Name	Designation	Qualification	Experience	Years with the Firm	Any Other
1	2	3	4	5	6	7



## LETTER SUBMITTING TENDER

**The Under Secretary,  
Technology Development Board,  
A-Wing Ground Floor,  
VishwaKarmaBhawan,  
ShaheedJeet Singh Marg,  
New Delhi, Delhi 110016**

REG:- Interior work for **Technology Development Board**, at FAI Building, ShaheedJeet Singh Marg, New Delhi-110016,

Dear Madam,

With reference to the tender invited by you for the proposed work,

I/we do hereby offer to execute the work under contract at the respective rates mentioned in the schedule of quantities. I/ We have seen the site, understood the general conditions of contract and special conditions.

I/ we agree to execute the work as per specifications of general conditions of contract, special conditions and schedule of quantities.

I/ we have deposit earnest money of Rs. \_\_\_\_\_by demand draft which amount is not to bear any interest. I/we do hereby agree that this sum shall be forfeited by you in the event our tender is accepted and I / we fail to execute the contract when called upon to do so.

I/ we understand that you are not bound to accept the lowest or any tender that you receive.

Yours faithfully,

(CONTRACTOR)

1. Name of partner of the firm
2. Name of our banker

Tender submitted on \_\_\_\_\_before\_\_\_\_\_P.M

## **ARTICLES OF AGREEMENT**

This agreement is made on \_\_\_\_\_ day of \_\_\_\_\_ 2017 between (The Secretary, Technology Development Board, Wing-A, Ground Floor, Viswakarma Bhawan, Shaheed Jeet Singh Marg, New Delhi-110016,(herein referred to as TDB which expression shall its heirs, executors, administrators, and assigns) of the one part and \_\_\_\_\_ (herein referred to as successful contractor which expressions shall include his heirs, executors, administrators and assigns) of other part.

WHEREAS TDB is desirous of carrying out of Interior work for Technology Development Board at FAI Building, ShaheedJeet Singh Marg, New Delhi-110016.

Describing the work to be done as per schedule of quantities along with the general conditions of contract and special conditions etc. and whereas the contractor has agreed to execute the work described in said priced schedule of quantities, general conditions of contract, special conditions and drawing at the respective rates mentioned in the prices schedule of quantities attached.

WHEREAS the contractor has deposited Rs. \_\_\_\_\_ with the TDB as Earnest Money Deposit (EMD) for due performance of the agreement.

The following documents shall be deemed to form and read constructed as part of this agreement.

- (i) Tender Document
- (ii) BOQ
- (iii) Drawings
- (iv) Reference Images

**NOW IT IS HEREBY AGREED AS FOLLOWS:**

1. In consideration of the payment to be made to the contractor as herein provided he shall upon and subjected to the said condition execute and complete the works as per the said conditioned and priced schedule of quantities.
2. The Technology Development Board shall pay the contractor such sums as shall become payable hereunder at the times and in manner specified in the conditions.
3. The said conditioned shall be read and form part of the agreement and the parties hereto will respectively abide by and submit themselves to the conditions and Stipulations and perform the agreement on their parts respectively on such conditions contained.
4. All disputes arising out of in any way connected with this agreement shall be deemed to have arisen in Delhi and only the court/ Arbitrator in Delhi shall have jurisdiction to determine the same.
5. All parts of this contract have been read by us and fully understood by us.

**(WITNESS)**

**(TDB )**

**(CONTRACTOR)**

## APPENDIX REFERRED TO IN THE GENERAL CONDITIONS

1. Defect liability period :Twelve Months
2. Date of Commencement :7<sup>th</sup> day from the date of issue of Award
3. Stipulation period of completion :60 Days

4. Minimum value of work done for interim payment

Ser	% of Work Completion	% of total contract value for Interim Payment
(a)	50	25
(b)	75	25
(c)	90	25
(d)	100 (Test Report)	15
<b>Total</b>	<b>100</b>	<b>90</b>

5. Retention money for defect Liability period. :10% of the total value of work (Including the earnest money deposit)
6. Liquidated damages for non-completion of work within stipulated period :1.5 % of contract value per week subject to a maximum of 10% of total cost
7. The retention money shall be refunded after the completion of defects liability period. The retention money shall not carry any interest and shall be retained interest free by the TDB.

## GENERAL CONDITIONS

1. Sealed quotations shall be addressed to the Under Secretary, TDB, Wing-A, Ground Floor, ViswakarmaBhawan, ShaheedJeet Singh Marg, New Delhi-110016, and superscribed 'Interior work for **Technology Development Board**, at FAI Building, ShaheedJeet Singh Marg, New Delhi-110016" and should reach the TDB before **20.07.2017** up to 1:00 pm.
2. No tenders will be received after 1:00 pm on **20.07.2017** and the tenders will be opened on the same day at 3.00 p.m. unless otherwise informed.
3. The tenders will remain valid for a period of 90 Days from the date of opening of tenders. TDB reserves the right to accept or reject any or all the tenders without assigning any reason whatsoever.
4. At the time of submission, every tender must be accompanied by a Demand Draft of **Rs 1,40,000/-** in favour of Technology Development Board, Delhi as earnest money. No interest will be paid on earnest money. Any tender which is not accompanied by the earnest money shall be summarily rejected.
5. The tender should quote the rates in figures as well as in words.
6. The earnest money deposit (EMD) of unsuccessful tenders will be returned after the tender is decided or expiry of validity of the tender whichever is earlier.
7. The earnest money of the successful tender shall be adjusted against retention money.
8. The Technology Development Board reserves the right to reject any or all the tenders, accept part of any tender or entrust the entire work to any contractor or divide the work with more than one contractor (item wise) without assigning any reason or giving any explanation. The rates quoted by the contractor will hold good for this bifurcation and no compensation will be paid on this account.
9. In case of bifurcation of the work, the contract given to IF & Civil works will be the main contractor who will coordinate with all other contractors (if any) and will ensure that all the work including work of other contractors (to whom a part of contract has been given) is completed without any delay.
10. Joint tenders shall not be considered.
11. On receipt of information from the Technology Development Board on the acceptance of his tender, the tenderer within 7 days should submit his acceptance of the work order. If the successful tender fails to undertake the work, the earnest money deposited by him will be forfeited and acceptance of his tender may be withdrawn.
12. The rates quoted in the tender shall include all charges of Scaffolding, lift for all height any tools and plants, freight, labour, conditions, and fluctuation in the rates, Excise duty, VAT, Service Tax, Octroi and any other taxes or expenditure for carrying out the work nothing extra shall be paid on this account.
13. The water and electricity shall be provided by the Technology Development Board for completing the work free of cost at one point.

14. No escalation in rates will be allowed under any circumstances.
15. The successful tender is bound to carry out entire work within the period stipulated in the appendix. The tenderer will have to pay liquidated damages for non-completion of job within stipulated period at the rate of 1.5 % of the contract value per week subject to a maximum of 10% of total cost.
16. The liquidated damages as mentioned above may not be enforced if the Contractor applies for extension of time mentioning the reasons for extension. Extension of time in days may be granted by the TDB provided, contractor is not at fault for extending the work beyond stipulated date of completion.
17. The successful tenderer is bound to carry out items of work necessary for completion of job even though the same are not included in the schedule of quantity. Rates of extra items will be derived from the tender. In case the rates do not exist in the tender and extra item is not similar to tender item, then the rates will be worked out on the prevailing market cost of material sustained by purchase vouchers / Bill and labour including wastage plus VAT & service tax as applicable.
18. The contractor must co-operate with other contractors appointed by the Technology Development Board so that entire work proceeds smoothly and to the satisfaction of the TDB.
19. The contractor shall remove all marks & stains etc. wash and clean the floor/premises at his own cost and hand over the site in proper manner on the completion of work.
20. The tenderer shall acquaint himself with the site conditions, making his own arrangement for storing of material at site, lift cartage etc.
21. Ten percent of the value of work done shall be deducted as security deposit from the running bills of the contractor and will be retained for defects liability period (as mentioned in the appendix) and shall be released after the defects liability period, provided no defects are noticed during the period. The security deposit includes earnest money deposited by the contractor along with the tender.
22. The contractor will attend to all defects noticed during defect liability period. If the contractor fails to attend the defects, the side effects will be rectified by another contractor appointed by TDB and the expenditure incurred on this account will be recovered from their security deposit.
23. The contractor shall make adequate arrangement for watch and ward of his material and shall ensure the safety, breakage any theft of material fixed or unfixed by him or Sub-contractors.
24. The work executed should have been approved by the Technology Development board and the contractor shall rectify any bad workmanship pointed out at any stage and remove from site all the rejected materials, immediately.
25. The contractor shall be responsible for implementing labour laws, compensation for injury and accident to person whether by him or by his sub contractor.
26. The contractor will take necessary precautions for carrying out the work avoiding any damage to structures/decorative parts of the property. The contractor will rectify any damages done at his cost.

27. The contractor shall ensure that workmen employed by him for execution of work are suitably covered against Workman's Compensation Act and that all the liabilities arising out of Workman's Compensation Act, ESIS and other legislative enactment applicable to such works and workmen shall be to the contractor's account.
28. The works will be carried out as per drawings/specification and to the entire satisfaction of the Technology Development Board.
29. The contractors shall give due to the Technology Development Board to check measurements of any work, which is likely to be hidden before covering the same.
30. The contractor will submit running bills for the value of work done not less than interim payment (as mentioned in the appendix) mentioning full nomenclatures of items, rates, amount, measurement sheets, reason for part rates claimed, if any.
31. In case of non-completion or delay in completion of work or non-removal of defects in time, the Technology Development Board shall be free to appoint another agency to get the job done at contractor's risk and cost.
32. The contractor must include in their tender prices quoted for all duties royalties, VAT, Services tax or any other Taxes or Local Charges, If applicable, Further, if any Tax levied by virtue of law in force after date of prices bid, will be borne by the contractor, No claims whatsoever on this account shall be entertained.
33. Income Tax VAT as applicable will be deducted at sources from the contractor bill and will be deposited with the ITO/sales Tax Department as per rules.
34. The Technology Development Board may delay the progress of work, without in any way violating the contract and grant such extension of time for the commencement / completion of the contract as it may think proper and sufficient in consequence of such delay and the contractor Shall not claim for compensation or damage in relation thereto.
35. The contractor will not execute any extra item of work without Technology Development Board permission in writing.
36. The quantities mentioned in the schedule of quantities are approximate and can vary up to any extent. Payment will be made on actual work done by the contractor. However the contractor should not deviate the quantity without the permission of Technology Development Board in writing.
37. Conditional tender quoted by the tender is liable to be rejected.
38. The Technology Development Board has a right to alter the nature of work and to add or limit any item of work to have the opinion of the same carried out departmentally or otherwise and such alternation of variations shall be carried out without prejudice to this contract.
39. Deviation in tender quantities :-  
  
The tender shall hold good for any increase in the tender quantities up to the variation of 25%. In case tender quantities of an individual item exceeds the deviation limit of 25%, the rates for the excess of quantities over and above the deviation limit then the rates will be worked out on the prevailing market cost of material sustained by purchase vouchers/bills and labour including wastage plus 15% towards Contractor's profit and

overheads plus taxes, i.e. VAT and service tax, as applicable.

40. **Substitution:** - Should the contractor desire to substitute any materials and workmanship, he/they must obtain the approval of the Technology Development Board in writing for any such substitution well in advance. Material design in the specification identified by such Term as "Equal" or "Other approved" etc. specific approval of the Technology Development Board to be obtained in writing.
41. **Concealed Work:-** The contractor shall give due notice to the Technology Development Board whenever any work is to be buried in the earth, concrete or concealed or otherwise, becoming inaccessible later on, so that the work may be inspected and correct dimensions taken before such burial. In case of default, the same shall, at the discretion of the Technology Development Board be either opened up for measurement at the contractor's expenses or no payment may be made for such material, should any dispute or difference arise after the execution of any work as to the measurements etc. or other matters which cannot be conveniently tested or checked, the notes of the Technology Development Board shall be accepted as correct and binding on the contractor.
42. The successful tender is bound to carry out items of work necessary for completion of job even though the same are not included in the schedule of quantities. Rates of extra items will be derived from the tender. In case the rates do not exist in the tender and extra item is not similar to tender item, then the rates will be worked out on the prevailing market cost of material substantiated by purchase vouchers and labour including wastage plus 15% towards Contractor's profit and overheads plus taxes, i.e. VAT and Service TAX, as applicable.
43. **Arbitration:-**In case of any dispute between Technology Development Board and Contractor, the decision taken by the arbitrator who will be appointed by the Technology Development Board, will be final.

**TDB**

**CONTRACTOR**



## **SPECIAL CONDITIONS OF CONTRACT**

1. Intending contractor shall visit the site and get acquainted with site conditions and activities during the working hours before quoting the rates. The contractor should bear in mind that the Technology Development Board shall bear no responsibility for the lack of acquaintance of site and other conditions or any information relating to or on their part.
2. All measurements shall be made as per CPWD norms.
3. Site should be cleaned every day and all the unusable material/malba shall be removed from the site and unusable materials shall be stacked properly so that there is no hindrance for staff and public failing which Technology Development Board will remove the same at their level and suitable amount shall be recovered from the contractor's bill.
4. The work should be carried out as per latest CPWD specifications and as per the standard engineering practice.
5. The contractor will take all necessary precautions for carrying out the work avoiding any damage to the structure, flooring of staircase and other areas and paint on the wall etc. before and during execution of job. If any damage is occurred during the execution, the contractor will rectify the damages done at his cost.
6. The contractor shall employ competent supervisor for the work, who shall be available (by turn) throughout the working hours to receive and comply with instruction of employer.
7. The work permit shall be issued for 24 hours; however, being the restricted/controlled area the work shall be carried out after working hours also for completion of work with in stipulated time. Execution of work during office hours the contractor should ensure that no hindrance or inconvenience to the Public / Employees working in the building.
8. The rate shall be firm throughout the contract period including extension of time if any granted and shall not be subjected to change under any circumstances. Nothing shall be paid on his account.
9. The contractor shall be required to maintain the coordination with the building maintenance contractor and other agencies work in the building, if required.
10. No old /dismantled material shall be used by the contractor in the work under any circumstances unless otherwise specified or under instruction of the Technology Development Board.
11. All material which contractor proposes to be used in the work is to be approved by the Architect /Technology Development Board before bringing the material at site.
12. Dismantling and taking away includes the disposal of unserviceable material/malba to approve municipal Yard.
13. The temporary arrangement of the department for electricity if required during the execution of work will be carried out by contractor without any extra charges. It includes all the required material and labour.
14. All light fittings and fixtures if required to be removed/refixed for carrying out the work shall be executed without any extra charges.

15. Contractor is to submit minimum five colored photographs of size 250 mm X 300 mm on weekly basis, without any extra cost, to show the progress of work in such a way that the progress of work of whole site can be accessed from these photographs.
16. 10 years guarantee for water proofing & 5 years for anti-termite work in Performa as approval by the Technology Development Board must be given by the firm in token of his overall reasonability. The period of warranty (10/5 Years) supersedes the defect liability stated in contract elsewhere. In addition, 10% of the cost of these items would be retained as guarantee to watch the performance of the work done. If any defect is noticed during the guarantee period, it should be rectified by the contractor within 15 days, from the date of issue of letter and if not attended to the same will be done by another agency appointed by TDB at the Risk and Cost of contractor.

## **PREAMBLE TO BILL OF QUANTITIES**

### **RATES TO INCLUDE:**

Rates quoted shall be for the items completed in all respect at all floors/ heights / levels including all taxes, octopi and the cost of all materials, fittings, fixtures, all labors and for all the operations as detailed in the specifications and contract condition. Apart from other factors mentioned in the specifications and contract condition, rates quoted for the items in this schedule shall also include the following:

#### **1.1 GENERAL :**

- 1.1.1 Whether mentioned or not in the bill of quantities, all works are to be carried out as per the drawings, designs, catalogues and instructions of the Technology Development Board. Nothing extra shall be paid over the quoted rates for not understanding the designs etc. beforehand.
- 1.1.2 Samples of all works/ items have to be approved from the Technology Development Board before supply at site and nothing shall be paid for the cost of samples.
- 1.1.3 Any incidental work required to complete the item and not specifically covered in the item as mentioned in the bill of quantities shall be completed at no extra cost.
- 1.1.4 All finished work must be truly vertical and horizontal or in any other plan as shown and required true to lines and levels. The contractor must inspect the various existing surface and area on which they have work on and take whatever measures necessary to achieve the objective and include the cost of same in his rate, no extra will be payable for this purpose.
- 1.1.5 The contractor shall be required to produce the manufacture's certificate for the material supplied by them if asked by the Technology Development Board. Employer can ask for testing of materials in the approved test laboratories. The result shall satisfy the requirement of the relevant ISI standards.
- 1.1.6 Unless otherwise specified all exposed surfaces shall be finished in line and level and smooth.

#### **1.2 HARDWARE:-**

- 1.2.1 Necessary handles, tower bolts, ball catchers, stoppers, hinges, brass/GI screws, nails, locks, sliding rails, nut & bolt etc. shall be provided by the contractor which shall be cut out of the approved make of these materials annexed in the technical specifications / approved by Technology Development Board.

#### **1.3 PAINTING AND POLISHING**

- 1.3.1 All finishes like painting, lamination, all polishing shall be as per the satisfaction of the Technology Development Board.
- 1.3.1 Thoroughly brushing the surface to be finished, free from mortar drooping and other foreign matter includes preparing the surface and sand papering to give an even surface.

1.3.2 All painting work to be complete with at least one coat of the primer along with two coats of the paints as per the technical Specifications, Manufacture's specification and to the satisfaction of the Technology Development Board.

1.3.3 All the polishing works to be completed with at least two coats of the polish of the approved make as per the list of approval manufacture and to the full satisfaction of the Technology Development Board.

#### **1.4 CI Pipe Work**

1.4.1 All CI pipes should be tested prior to execution of work and shall also be tested after execution of works as per relevant IS codes.

1.4.2 CI pipe work should be truly vertical

1.4.3 All new pipes be joined with old i.e. pipes already installed in such a way that the system works in a total homogeneity with no leakage.