

# TENDER DOCUMENT FOR

**“Conceptualized Design Proposal,  
including preparation of Bill of Quantity Justification of rates &  
Execution, etc. complete for interior & furnishing work etc. including  
strengthening of wall by providing special treatment for the work of  
construction of state of Art library at Government College, Bhenslore,  
Nani Daman (U.T.)**



**OMNIBUS INDUSTRIAL DEVELOPMENT CORPORATION  
OF  
DAMAN & DIU AND DADRA & NAGAR HAVELI LIMITED  
(A Govt. Undertaking)**

Corporate office, Plot No.35, Somnath, Nani Daman – 396210  
Phone No. (0260) 2244731



**OMNIBUS INDUSTRIAL DEVELOPMENT CORPORATION OF  
DAMAN & DIU AND DADRA & NAGAR HAVELI LIMITED.**  
(A Government Undertaking)

**Corporate Office: - Plot No.35, Somnath, Nani Daman, (0260) 2240976, 2244731**

**Conceptualized Design Proposal, including preparation of Bill of Quantity  
Justification of rates & Execution, etc. complete for interior & furnishing work etc.  
including strengthening of wall by providing special treatment for the work of  
construction of state of Art library at Government College, Bhenstore, Nani Daman (U.T.)**

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DAMAN & DIU AND DADRA & NAGAR HAVELI LIMITED.**  
(A Government Undertaking)  
**Corporate Office: - Plot No.35, Somnath, Nani Daman, (0260) 2244731**

No.OIDC/DMN/CD/2008-09/

Date: -\_\_/10/2009.

**TENDER NOTICE**

OIDC invites Sealed Tenders on "Turn key basis" from Reputed specialized Agencies for "Conceptualized Design Proposal, including preparation of Bill of Quantity, justification of rates & Execution, etc. complete for Interior & Furnishing Work, etc including strengthening of wall by special treatment for the work of construction of state of Art library at Government college, Bhenslore Nani Daman with period of completion 45 days. Last date of receipt of application for issue of the tender is **23/10/2009**. Last date for issue of blank tender to the eligible contractor is **27/10/2009**. Cost of tender document is **Rs.1000/-**. Last date for submission of dully filled tender document is on **06/11/2009 upto 16.00 hrs.** in the office of Executive Engineer, OIDC Ltd., Daman.

OIDC reserves the right to reject any or all the tenders without assigning any reason and the selection shall be at the absolute discretion of the Corporation and Corporation's decision in this respect shall be final and binding.

Detailed Notice inviting tender & Tender Documents are available for reference on our web site [WWW.oidc.nic.in](http://WWW.oidc.nic.in)

Sd/-  
Executive Engineer,  
OIDC Limited, Daman.



**OMNIBUS INDUSTRIAL DEVELOPMENT CORPORATION OF  
DAMAN & DIU AND DADRA & NAGAR HAVELI LIMITED.**  
(A Government Undertaking)

**Corporate Office: - Plot No.35, Somnath, Nani Daman, (0260) 2244731**

No.OIDC/DMN/CD/2008-09/

Date: - \_\_/10/2009.

**NOTICE INVITING TENDER**

- (1) Sealed Tenders are invited on behalf of OIDC from Reputed specialized Agencies for "Conceptualized Design Proposal, including preparation of Bill of Quantity, justification of rates & Execution, etc. complete for Interior & Furnishing Work, etc including strengthening of wall by special treatment for the work of construction of state of Art library at Government college, Bhenslore Nani Daman."
- (2) Last date of receipt of application for issue of the tender is **23/10/2009**. Last date for issue of blank tender to the eligible contractor is **27/10/2009** on all working days from the office of undersigned at OIDC Corporate Office, Plot No. 35, Somnath, Nani Daman, should be purchased personally on payment of **Rs. 1000/-** (Rupees one thousand Only) in the form of Demand Draft or Cash in the name of the "Executive Engineer, OIDC, payable at Daman" (Non Refundable).
- (3) The tender shall be received upto 4.00 P.M on **06/11/2009** along with the Earnest Money Deposit of 2.5% of Bid amount, in the Office of the Executive Engineer, OIDC Corporate Office, Plot No. 35, Somnath, Nani Daman. All the bidders who has submitted their bids will give Power Point Presentation before Selection Committee **(date & time will be intimated later)** at OIDC Camp Office, Near Secretariat, Moti Daman.
- (4) The financial bid of only short listed agencies shall be opened after scrutiny by selection Committee and bid will be opened in the presence of short listed bidders who chose to remain present.
- (5) The Qualification requirements of Contractors / Firms :-

- a) Should be registered in appropriate class of CPWD Department of Telecommunications / MES / Railways / State Development Authorities / Municipal Corporation / State PWD / PSUs and having Permanent Account Number (PAN).
- b) The Tenderers should have an experience of having completed such nature of works during the last 7 years ending 31<sup>st</sup> April, 2009. Three similar completed works (at least one of them should be in Central Government / Central Autonomous Bodies / Central Public Sector Undertakings) Costing not less than the amount of Rs. 25 Lakhs. Or two similar completed works, costing not less than the amount of Rs. 35 Lakhs. Or one similar completed work of aggregate cost not less than amount of Rs. 50 Lakhs. Client Certificate for completion as per agreement, actual date of completion and satisfactory completion as per agreement, actual date of completion and satisfactory completion of work. Firm showing work Experience Certificate from Non-Government/Non PSU Organizations should submit copies of "Tax Deduction at Source Certificate" in support of their claim for having experience of stipulated value of works. The similar project shall mean the projects relating to interiors and furnishing of Corporate Office Institutional / Commercial Building, etc.
- c) **TURNOVER:** - Average annual financial turnover on construction works should be at least Rs. 70 Lakhs, during the last 3 years ending 31<sup>st</sup> March, 2009. As a proof, copy of Abridged Balance Sheet along with Profit & Loss Account of the firm should be submitted along with the application.
- d) **SOLVENCY CERTIFICATE:** - The Contractor should have a solvency of the amount equal to Rs. 25 Lakhs.
- e) Should possess appropriate tools / plants & machinery for this work. Documentary proof of owning and possessing required machinery and T & P, shall also be submitted along with the application.
- (6) Applications from Joint Venture Company duly registered consortium of Firms / Companies shall be considered subject to the following conditions :-
- a) Consortium of firms should not comprise of more than two firms.

- b) Joint Venture Firm as a single unit or each member of the consortium should be registered in appropriate class with the authorities mentioned in Para-5(a) and have Permanent Account Number (PAN).
  - c) A detailed and valid agreement exists between the consortium members defining clearly the role, responsibility and scope of work of each member along with nomination of leader for the purpose of this work commensurating with their experiences and capabilities and a confirmation that the members of the consortium assume joint and several responsibilities.
  - d) The leader of the Consortium of firm shall meet 80% of the qualification criteria as defined in Para-5(b) & 5 (c) and 5 (d) above and shall accept overall responsibility of contract obligations for the total scope of work during execution and upto defects liability period.
  - e) Both the Consortium firms should jointly possess the required T & P, machinery and manpower and should produce self-attested documentary proof of owning and possessing required machinery.
- (7) The tenderes shall submit personally their applications along with firms Bio-data and Self-attested documents in support of their meeting each criterion mentioned.
- (8) Tender application / filled tenders of the bidders by post are not acceptable.
- (9) **OIDC does not bind to accept the lowest or any other offer and reserve the right to waive off any formalities thereof or reject any or all offers received without assigning any reasons.**
- (10) Clarifications, if any required, may be obtained from office of the Executive Engineer, OIDC Limited, Daman.
- (11) Tender Documents are available for reference on our web site [WWW.oidc.nic.in](http://WWW.oidc.nic.in)

Sd/-  
Executive Engineer,  
OIDC Limited, Daman

## **INSTRUCTIONS TO TENDERERS FOR PRE-QUALIFICATION**

- (1) Intending Tenderers are required to submit their applications in the prescribed format and with full particulars, giving details about their organization, experience, technical personnel in their organization and detailed address of the firm / works which will be kept confidential.
- (2) While deciding upon the pre-qualification of Contractors / Agencies emphasis will be given on the ability and competence of applicants to do good qualities work within the stipulated time schedule.
- (3) Each page of the application shall be signed. The application shall be signed by person / persons on behalf of the organization having necessary authorization / Power of Attorney to do so.
- (4) If the space in the Performa is insufficient for furnishing full details, such information may be supplemented on separate sheets of paper, stating therein the part of the Performa and serial number. Separate sheets shall be used for each part, and a proper reference with page number must be indicated in the main form of application. The applicant should, however, enclose the application form collected from the OI DC along with the application.
- (5) Applications containing false and / or inadequate information will be summarily rejected.
- (6) While filling up the application with regard to the list of important projects completed or on hand, the applicants shall include projects relating to interior and furnishing of Corporate Offices / Institutional / Commercial Buildings costing not less than Rs. 50 Lakhs each and shall mention major features of work with documentary evidence. Photographs & video of same if available to be supplied.
- (7) Clarifications, if any required, may be obtained from office of Executive Engineer, OI DC Limited, Plot No.35, Somnath, Nani Daman.

(8) The minimum general Pre-qualification criteria shall be as stipulated on this Form. However, mere fulfillment of minimum eligibility criteria will not entitle Pre-qualification as pre-qualification will be done after taking into account various parameters including receipt of satisfactory reports from clients and assessed by the Corporation.

**(9) Contractors are requested to visit the site before submitting the application to acquaint themselves with the site conditions.**

(10) Applicants shall furnish documentary evidence / certificates in support of their claim of work undertaken and work in hand, failing which the application will be liable for rejection.

(11) Decision of the OI DC in regard to pre-qualification of contractors shall be final. The OI DC reserves the right to reject any or all Offers without assigning any reason thereto.

**NOTE:-**

EMD: - The EMD as specified above in the form of FDR of any Nationalized Bank drawn in favour of Executive Engineer OI DC along with the Technical Bid. Tender forms unaccompanied by prescribed EMD will be rejected.

a) The firm must have minimum experience of having successfully completed during last 5 years.

I. At least 3 similar projects costing minimum Rs. 25.00 Lakhs each, out of which one should be in Western part of India.

Or

II. At least 2 similar projects costing minimum Rs. 35.00 Lakhs each, out of which one should be in Western part of India.

Or

III. At least 1 similar project costing minimum Rs. 50.00 Lakhs. In case the said project is located outside Mumbai / Thane / Navi Mumbai / Pune, there should be additionally at least one similar completed project costing Rs. 50 Lakhs or above in Western part of India.

IV. Solvency of Rs. 25 Lakhs.

**The expression similar project shall mean the projects relating to interior and furnishing, Air Conditioning, Electrification, plumbing, false ceiling, Fire Fighting System, Office Automation, etc. of Corporate Offices / Institutional / Commercial Buildings on turnkey basis.**

The firm should preferably have experience in handling projects comprising of interior and furnishing, Air Conditioning, Electrification, plumbing, false ceiling, Fire Fighting System, Office Automation, etc. of Govt. / Public Sector Undertaking / Nationalized Banks, etc.

## **TENDER DOCUMENT & MODE OF SUBMISSION**

### **(1) ISSUE OF TENDER :-**

Tender will be issued to contractors only as per provision made in this Corporation and issue of tender copy is not to be considered as confirmation of eligibility. The tender documents are being issued from the office of Executive Engineer, OI DC Corporate Office, Plot No. 35, Somnath, Nani Daman.

### **(2) EARNEST MONEY :-**

The tenderer shall deposit and keep deposited (for the period-specified hereafter) with OI DC a sum as shown in this tender notice as the Earnest Money. The earnest money shall be deposited in one of the following forms:

FDR of any Nationalized Bank in favour of Executive Engineer, OI DC Limited, Daman or by Demand Draft in favour of Executive Engineer, OI DC Ltd, Daman payable at Daman. (EMD in any other form will not be accepted and subjected to rejection of tender).

The failure or omission to such deposit as Earnest Money shall disqualify the tender / tenderer and OI DC shall exclude from its consideration such disqualified tender.

No interest shall be payable by OI DC in respect of such deposited Earnest Money.

The Earnest Money of an unsuccessful tenderer shall be refunded after the final decision on the tenders or on expiry of the validity period whichever is earlier on passing receipt thereof.

Invitation by OI DC to submit the tender shall be a proposal and the submission of the tender by the tenderer shall be an acceptance of such proposals to win contract. The tenderer shall not revoke his tender or vary its terms and conditions without the consent of OI DC during the period of 120 days counted from the last day appointed by OI DC for submission of tenders. If tenderer shall revoke the tender or vary its terms or conditions contrary to its promise to abide by this conditions, the earnest money deposited by him shall stand forfeited to OI DC without prejudice to its other rights and

remedies without prejudices to the foregoing clause, the tenderer shall be disentitled to submit a tender to OI DC for Execution of any works during the next 60 months effective from the date of such revocation or variations of the terms and conditions of the tender.

**If OI DC shall accept the tender and signify such acceptance to the tenderer, the earnest money so deposited with OI DC shall be appropriated towards part of security deposit payable by the contractor. And in addition, Contractor has to deposited performance Guarantee of 5% of bid amount within 15days of issue of work order.**

The EMD of the successful tenderer shall be forfeited if:

- a) After submitting the tender, the Contractor withdraws / revokes his offer or modifies / changes the same during the validity of the tender, or if after the acceptance of his tender,
- b) Fails to execute the Contract Agreement within 15 day from the date of issue of Acceptance Letter,
- c) Fails to commence the work within a week from the date of Work Order.

### **(3) VISIT TO SITE BY THE TENDERER :-**

Tenderers are advised to visit the site sufficiently in advance of the date fixed for submission of tender. The tenderers shall be deemed to have full knowledge of all the relevant documents, samples, site conditions, availability of labour, basic materials, water, electricity, etc. whether they inspect them or not and rates quoted are all inclusive so as to complete the project and hand over the same.

### **(4) MODE OF SUBMISSION OF TENDER :-**

The tender shall be submitted in accordance with the procedure detailed herein. Specified documents shall be sealed in envelope of appropriate size which shall be sealed.

The complete tender in the manner specified in the forth coming paragraph will be received in the Office of the Executive Engineer, OI DC Corporate Office, Plot No.35,

Somnath, Nani Daman – 396 210, as per the tendering programme. The tender must be deposited personally in the Tender box. Tenders received after the expiry of the specified time & date will either not be accepted or if inadvertently accepted, will not be opened.

The complete tender shall be submitted in two separate sealed envelopes, each envelope super scribing on the top as below:

ENVELOP NO.....

NAME OF WORK .....

TENDER NOTICE NO. ....

Both these envelopes shall be put together in one common sealed envelope with the envelope superscripting as "Bid invitation for "Conceptualized Design Proposal, including preparation of Bill of Quantity & Execution, etc. complete for Interior designing & Furnishing, Electrification, Air Conditioning, etc for improvements and restructuring of O IDC Corporate Office, Plot No. 35, Somnath, Nani Daman"

**Envelope No. 1**:- The envelope one No.1 shall content the following documents:-

- a) Technical Bid, List of all documents enclosed in the envelope.
- b) Details of –
  - Basic information (Performa-1)
  - Work capability and previous experience (Performa-2)
  - Technical personnel and special experience (Performa-3)
- c) Enclose EMD in form of Demand Draft or FDR of any Nationalized Bank drawing in favour of Executive Engineer, O IDC, Daman.
- d) Consultancy Agreement.
- e) Complete total detailed drawings for proposal, a CD, addition, alteration plan structural drawing, architectural drawing, AC ducting etc. sufficient enough to explain the whole concept of consultant.

f) Power of attorney authorizing the person to sign the tender document. **Detailed bar and CPM / PERT chart supported by manpower, material, machinery required and indicating physical and financial target in (in triplicate).** The CPM / PERT chart must indicate resources, skilled and unskilled labour requirements in each week.

**g) Detailed measurement sheet of the whole estimate with schedule B(without rate)**

**Envelope No. 2:-** The Envelope No.2 shall contain the following documents:-

Financial Bids shall be in the Performa as enclosed [Envelop-II (Performa)] showing all the rates & total amount of the project. And it is compulsory to submit detailed justification of the rates alongwith the financial bid. There will be a lumpsum cost for whole project beyond which nothing extra shall be paid, all incidentals must be included. The cost shall be submitted in bracken individual components of broad items of work that the Consultants / Architect Stipulates to undertake in different subheads namely:-

- a) Civil Structural.
- b) Electrical.
- c) Landscaping.
- d) Furniture, Fixtures.
- e) Air-Conditioning.
- f) Artifact.
- g) Upholstery & all other misc. supply.
- h) Fire fightings

**(5) METHOD OF OPENING TENDERS :-**

- a) The tenders received on date specified for submission and before the scheduled time will be opened as per the tendering programme in the office of the Executive Engineer, OI DC Corporate Office, Plot No. 35, Somnath, Nani Daman, by the Executive Engineer, OI DC or his representatives or Committee constituted for the purpose if possible.

- b) The tenders will be opened in presence of tenders or their authorized representative who chose to remain present on the opening date at the scheduled time.
- c) The pre-qualification documents received shall be considered by the Screening Committee constituted for the purpose.

Envelope No.1 (Contract condition and Technical Bid) of all the tenderers will be opened first to verify its contents. If any shortfall is noticed in this, a note to that effect will be recorded by the tender opening authority on the tenders.

The technical bid will be first scrutinized and evaluated for its acceptance based on the documents submitted by the tender. The technical bid of tenderers who have attained minimum qualifying standard marks in the scrutiny will be accepted and they will be informed of the same.

Only those tenders who obtain minimum qualifying marks shall be considered suitable for executing the subject work, and they will be short listed. The "Envelope No. 2" of only such short listed tenders will be opened and will be considered for further evaluation by O IDC.

It shall be at the absolute discretion of O IDC to decide the factors relevant for short listing, their weightage, the marking system, as well as minimum qualifying marks / standards for short listing, etc. and all matters related to short listing.

The Tenderer shall be required to make a detailed presentation of their proposal before a competent jury and carryout amendment in the proposal if used be. The all decision of the Executive Engineer, O IDC shall be final and binding on all parties.

**Envelope No-2 (Price Bid)** of only, those tenderers who have attained the minimum qualifying marks and short listed on scrutiny of genuine information furnished in Envelope No-1 and evaluated for its acceptance will be opened in the presence of authorized representatives who choose to remain present on the opening date which is subsequently decided after opening of Envelope No-1. The tenders of other

contractors who have been disqualified due to some shortfall / deficiencies noticed in the documents provided in Envelope No-2, during verification shall not be opened.

This Envelope No. 2 shall content the firm and unconditional financial offer in lumpsum basis for complete project along with breakup cost such as :-

- a) Civil Structural.
- b) Electrical.
- c) Landscaping.
- d) Furniture, Fixtures.
- e) Air-Conditioning.
- f) Artifact.
- g) Upholstery & all other misc. supply.
- h) Fire fighting

The lowest tender (L1) shall be decided on basis of overall evaluation of Technical Bid and Financial Bid.

**PART-I BASIC INFORMATION**

(1)	Name of the Applicant and Address of the Registered Office.	
(2)	Year of establishment (Enclose documentary evidence)	
(3)	Type of the organization (Whether sole proprietorship, Partnership, Private Limited or Co-operative Body, etc.)	
(4)	Name of the Proprietor / Partners / Directors of Applicant with address and phone numbers.	
	(a)	
	(b)	
	(c)	
	(d)	
(5)	Details of Registration – Whether Partnership Firm, Company, etc. Name of Registering Authority, Date and Registration Number.	
(6)	Whether registered with Government (CPWD / State POD/ MES / Railways) Semi-Government / Municipal Authorities or any other Public Organization and if so, in which class and since when?	
(7)	No. of Years of experience in the relevant filed.	
(8)	Address of office through which the proposed work of the "Interior Designing * Furnishing, Electrification, Air Conditioning, Office Automation Work of the Corporate Office" will be handled and the name & designation of the Officer in charge.	
(9)	Adequate and satisfactory evidence to indicate financial capacity of the Applicant to undertake the said works with names of Bankers and their full addresses. (Attach Solvency of Rs. 25.00 Lakhs) (Solvency Certificate from a Bank & Income Tax details should be attached).	
(10)	Yearly turnover of the Organization during last 4 years. (year wise) (Enclose copy of audited Balance Sheet)	
(11)	Details of Registration of the Architects of the Firm with Council of Architecture. (Enclose copies of Registration Certificates)	
(12)	Number of Performance Certificates from previous clients.	
(13)	Enclose Performance Certificates from previous clients.	
(14)	Whether any Civil Suit / Litigation / Arbitration arisen in the contracts executed during the last 10 years / being executed now. If yes, please furnish the details in the Performa given below :-	



**PART-II: WORK CAPABILITY AND PREVIOUS EXPERIENCE**

List of important projects Executed by the organization during last Seven (7) years costing above Rs. 50.00 Lakhs with special reference to interior and furnishing works.

Sr. No.	Name of the project and Location	Name & full postal address of the Client. Also indicate whether Govt. or Private body with full postal address.	Contract amount	Completion period	Whether work was left incomplete or contract was terminated from either side. Give full details	Any other relevant information
(1)	(2)	(3)	(4)	(5)	(6)	(7)

List of important works IN HAND costing above Rs. 50.00 Lakhs with special reference to interior and furnishing works.

Sr. No.	Name of the project and Location	Name & full postal address of the Client. Also indicate whether Govt. or Private body with full postal address.	Contract amount	Completion period	Whether work was left incomplete or contract was terminated from either side. Give full details	Any other relevant information
(1)	(2)	(3)	(4)	(5)	(6)	(7)

**PART-3: TECHNICAL PERSONNEL AND SPECIAL EXPERIENCE**

(1) List of your Technical, Personnel, giving details about their Technical Qualifications & Experience including that in your establishment.

Sr. No.	Name	Age	Qualifications	Experience	Nature of works	Name of the projects handled costing Rs. 50.00 Lakhs & above	Date from which employed in your organization	Indicate special experience such as Advt. Management Techniques, ISO Certificate, etc.,
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)

**NOTES:-**

- a) Information has to be filled up specially in this format. Please do not write remark "As indicated in Brochure / as enclosed" unless unavoidable.
- b) Information shall be limited to the Applicant. If any relevant data concerning the Group of Companies to which the Applicant belongs is desired to be given, the same shall be given separately in a supplementary sheet.

**(2) NUMBER OF SUPPLEMENTARY SHEETS ATTACHED WITH Sr.Nos.**

**BANK GUARANTEE**

To .....  
(Name of the Employer) ..... (Address  
of Employer) .....

Whereas ..... (name and  
Address of the contractor (hereinafter called "the contractor") has undertaken, in  
pursuance of contract No. .... Date ..... to execute  
..... (Name of the contract and brief description of  
works) hereinafter called "the contract").

And whereas we have been stipulated by you in the said contract that the  
contractor shall furnish you with a Bank Guarantee by a de-recognized Bank for the  
sum specified therein as security for compliance with his obligations in accordance with  
the contract.

And whereas we have agreed to give the contract such a Bank Guarantee.

Now therefore, we hereby affirm that we are guarantor and responsible to you,  
on behalf of the contractor, up to a total of  
.....(amount of guarantee)  
..... (in words). Such sum being payable in the types and  
proportions of currencies in which the contract price payable, and we undertake to pay  
you upon your first written demand and without cavil or argument, any sum or sums  
within the limit of ..... (amount of guarantee) as aforesaid without you  
needing to prove or show grounds or reasons for your demand for the sum specified  
therein.

We hereby waive off the necessity of your demanding the said debt from the  
contractor before presenting us with the demand.

We further agree that no change or addition or other modification of the terms  
of the contract or of the works to be performed thereunder or any of the contract  
documents which may be made between you and contractor shall in any way release  
us from any liability under this guarantee, and we hereby waive notice of any such  
change, addition or modification.

This guarantee shall be valid until the date of issue of the defects correction  
certificate.

Signature and Seal of Guarantor .....  
Name of the Bank .....  
Address  
.....  
Date .....

## **CONFIRMATION**

I / We confirm that the General Specifications and Special Conditions appended in the tender documents have been fully examined and fully cognizance taken thereof in arriving at the item unit price and total amount and tendered sums contained therein my / our tender.

**SIGNATURE OF TENDERER**

**ACCEPTANCE**

The above proposal (As modified by you as provided in the letters mentioned hereunder) is accepted by me and on behalf of the O IDC, for a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_).

The letter referred to below shall form part of this contract agreement:-

(i)

(ii)

(iii)

For & on behalf of O IDC.

Signature .....

Designation .....

## **SPECIAL CONDITIONS OF CONTRACT**

- (1) Tenderers shall go through all documents before quoting rates.
- (2) Civil work of strengthening of wall is to be carried out with special treatment.**
- (3) Alongwith technical bid, detailed measurement sheet & detailed schedule B (without rated) is compulsory to submit otherwise tender will be liable for rejection.
- (4) The tenderer whose tender is accepted shall be bound to implement the contract within Fifteen (15) Days of intimation from employer.  
  
"If Contractor has to manufacture all the items of work especially all furniture work on site only and for which he has to install the manufacturing facility on site. The necessary license / permission from the Govt. Bodies is to be obtained by Contractor and for which no extra payment is made by OI DC".
- (5) Work shall be done night and day without extra charge, if necessary with prior intimation & approval.
- (6) Tenderers shall provided for stacking materials in such a way as to facilitate checking of quantities.
- (7) Materials supplied by owner shall be used only in owner's work.
- (8) Contractors shall pay all local charges relating to execution of work.
- (9) Contractor's shall consider for all wastage before quoting the rates.
- (10) Contractor's shall arrange & pay for all temporary connections such as Water Supply, Electricity Power Supply, etc.,**
- (11) No extras shall be paid, quantity sheets and drawings both are to be considered jointly and EIC is the final authority for the interpretation.
- (12) Site instruction shall be deemed for proper execution, and shall be carried out without extra charges.
- (13) Order book with numbered pages shall be kept on site. Contractor shall carry out all instructions properly.
- (14) Contractors shall insure whole work against all risk policy till the completion of defect liability period.
- (15) Contractor should submit a set of as built drawings in duplicate after completion of work.

- (16) The project is likely to be covered under inspection by the Technical Examiners and hence the Contractor has to extend necessary co-operation and furnish required clarification during the said inspection either during or after the execution of work.

**TERMS AND CONDITIONS FOR INTERIOR / FURNISHING WORK OF  
STATE OF ART AND LIBRARY AT GOVERNMENT COLLEGE BHENSLORE NANI DAMAN**

A. The Contractor / Agency shall provide following details in "Technical Qualification" respect of the following works :-

- (1) Dimensional layout of furniture's suitable to the place and taking into consideration of staff strength of OI DC office.
- (2) Dimensional layout be prepared taking into consideration aesthetic, durability, cost effective, & symmetry amongst the item in a room and there should be effective utilization of space.
- (3) Design and drawing of proprietary items also be furnished with necessary specification, samples of the items shown in the presentation and unit rate of the same.
- (4) Minute detailing of furniture manufacturing dimensional drawings such as type of joint, lap, hardware, fixtures, fittings is to be specified or sample be placed.
- (5) Details of materials to used / consumed in the items with their detailed specifications and mentioning brand.
- (6) Detailing of wall texture / shade type of workmanship with every minute details of work with specification and mentioning list of reputed brands for consumable items.
- (7) Details of any architectural ornaments such as paintings, table lamps, flower pots, decorative articles, wall / ceiling lamps, telephone instrument etc to be given in specific.
- (8) Details of curtains / carpets / false ceiling work / concealed fixtures for light to be worked out and design & drawings to be given with specification.
- (9) Designing and detailing of Main Entrance, Passage, etc.,
- (10) Details of any minor modification or addition in present toilet block to be given with justification and new working drawings to be prepared.
- (11) Details of type of workmanship for each part of item of work to be given.

(12) The bidder has to make power point presentation of the entire job as proposed, 3D presentation, etc., to be prepared by the Tenderers.

**B. The Contractor / Agency shall provide following details in “Financial Qualification” respect of the following works :-**

- (1) Submit schedule of quantity of the work of proposal as per the “TECHNICAL BID”.
- (2) Quote the item rate as per the schedule of quantity. The rates should be quoted according to the presentation details in all respect on turnkey basis.
- (3) Offer the reasonable amount for the total work on turnkey basis.

**C. GENERAL INSTRUCTION:-**

(12) Contractor / agency have to visit state of Art & library at Government college, Bhenslore Nani Daman.” for on the spot assessment and take into consideration of present setup. The Tentative preferred layout; the staff strength & brief activity of OI DC’s Division are enclosed herewith for a guideline to the Architect / Interior Designer. However the tenderers are free to suggest better convincing alternative. Interior work and design should be accordance to the staff category enclosed herewith.

The minimum seating capacity of auditorium should be of 125 persons and at least 15'.0” width of the stage should be provided. Auditorium should have facility for projection of films, multilevel and multi functional stage lighting zoom follow spot lights, sound systems of Bose (USA) 15000 watts PMPO, acoustic false ceiling and wall paneling, well furnished luxurious lounge. The auditorium facility should be designed so that it can be converted into conference hall and also can be used as art gallery.

**TERMS AND CONDITIONS OF AIR CONDITIONING OF THE**  
**STATE OF ART LIBRARY AT GOVERNMENT COLLEGE BHENSLORE NANI DAMAN**

**A. The Contractor / Agency shall provide following details in “Technical Qualification” respect of the following works :-**

- (1) The tenderers have to design the air conditioning of appropriate standard & capacity to suite the office premises.
- (2) In the Technical Bid by tenderer, suitable capacities of Air Conditioner for the captioned work are to be provided. The Air-conditioners of national repute producing Cassette Split Air-Conditioners and High Wall Split Air-Conditioners in their brand name (such as Voltas, LG, Carrier, Blue star) and having their established Branch Office in Western Part of India.
- (3) The tenderes has to give layout of the proposal in the Envelope No.1 (Technical Bid).
- (4) The tenderers should furnish catalogue and other documentary evidences in support of above mentioned criteria along with other document of the tender document in Envelope No.1 (Technical Bid) failing which their tender will be rejected.

**B. The Contractor / Agency shall provide following details in “Financial Qualification” respect of the following works:-**

- (1) Financial Bid containing item rate of Air Conditioning unites as per the technical bid to be given.
- (2) The room air-conditioners unit as recommended by the tenderers will be made available from the manufacturer. The cost of air-conditioning work should include accessories required from the manufactures scope of supply, installation, erection, testing and commissioning of Cassette Split Air Conditioners, and High Wall Split Air-Conditioners.

**Executive Engineer,  
OIDC Limited, Daman.**

**Signature of the Applicant**

**TERMS AND CONDITIONS OF ELECTRIFICATION OF THE  
OIDC'S CORPORATE OFFICE, PLOT No.35, SOMNATH, DAMAN (UT).**

**A. The Contractor / Agency shall provide following details in “Technical Qualification” respect of the following works :-**

- (1) The tenderers have to design the Electrification of appropriate standard & capacity to suite the office premises.
- (2) In the Technical Bid by tenderer, suitable in detail design of the Electrification of all power points, light points, fan points & power to Air Conditioner, etc., to be given so that office requirements are fulfilled for the captioned work. The Electrical fixtures of national repute producing world class items in their brand name (MK, LK, Wipro, Philips, Bajaj, Crompton, L&T, Polycab, RR cables) and having their established Branch Office in Western Part of India.
- (3) The tenderers have to give layout of the proposal in the Envelope No.1 (Technical Bid).
- (4) The tenderers should furnish catalogue (Samples of Fixtures, etc.) and other documentary evidences in support of above mentioned criteria along with other document of the tender document in Envelope No.1 (Technical Bid) failing which their tender will be rejected.

**B. The Contractor / Agency shall provide following details in “Financial Qualification” respect of the following works :-**

- (1) Financial Bid containing item rate of each consumable items as per the technical bid to be given.
- (2) The cost of work should include supply, installation, erection, testing and commissioning of all the items.

**C. GENERAL INSTRUCTION:-**

Tenderer / Agency has to visit the site of OIDC Corporate Office, Plot No.35, Somnath, Nani Daman for on the spot assessment and take into consideration of present setup.

**D. The Tenderer have to design and provide LAN cables along with connector and one 16 port internet switch with UPS. The work should be completed as per sitting arrangement.**

## **GENERAL SPECIFICATIONS FOR FURNISHING WORK**

These specifications are for the work to be executed items to be supplied and materials to be used in the works as shown and defined on the drawings and described herein all the supervision and to the satisfaction of the O IDC.

The workmanship is to be best available and of a high standard. Use must be made or specialist tradesmen in all aspects of the works, and allowance must be made in the rates for doing so.

The materials and items to be provided by the Contractor shall be best of their respective kinds, approved by the Architect in accordance with the samples which may be submitted for approval and generally in accordance with the specification. Where materials or products are specified in offer by the name of the manufacturer or the brand trade name or catalogue reference the Contractor will be required to obtain the approval of the O IDC before using a material or product other than the specified. The Contractor shall produce all invoices, vouchers or receipted accounts for any materials if called upon to do so by the O IDC.

Sample of all material are to be submitted to the O IDC for approval before the Contractor orders or delivers in bulk to the site. Also, the Contractor will be required to submit specimen finishes of colours, fabrics, etc, for the approval of the O IDC before proceeding with the works. Should it be necessary to prepare shop drawings, then four copies of such drawings shall be submitted for the approval of the O IDC who will retain two copies all at the Contractors expenses.

### **TIMBER:-**

Timber generally is to be best of its kind, well and properly seasoned, of nature growth, free from worm holes large loose or dead notes or other defects and sawn die square and will not suffer wrappings, splitting or other defects through improper handling.

The hardwood is to be Valsad Teak weighing not less then 65lbs cubit foot with a moisture content tax. Shall be covered polished etc, after written permission.

Timber is to be cut to the required sizes and lengths as soon as practicable after the works are begun and stored under cover so that the air will circulate freely around it. Joinery is to be prepared, immediately after the placing of the contract, framed up (but not bonded) and stored until required for fixing in position, when it is to be bonded and wedged up. Any portions that warp or develop shakes or other defects are to be replaced before wedging up, the whole of the work is to be framed and finished in a proper and workman like manner, in accordance with the detailed drawings, and fitted with all necessary motaties straps, belts, screws, etc. running bonded joints are to be cross tongued with teak on guess and where over 1 – ½ % thick double cross tongued. Joiner's work generally is to be finished with fine class prepared surfaces unless otherwise specified.

Templates boxes and moulds shall be accurately set out and rigidly constructed so as to remain accurate during the time they are in use.

Ground are to be clean shown, free from large knots, splayed as required, plugged and fixed to walls, etc., at 1'6" centers.

Wood plus are to be cut on the twist, patent wall plugs or plastic filling may be used in lieu of wood plugs with the approval of the Architect.

All unexposed surfaces of timber e.g. false ceilings, backing fillets backs of doors frames, cupboard framing, grounds, etc. are to be treated with tow coats of approved timber preservative like solignim, kirticite, termiseal or castoral or vacuum pressure impregnated with and approved water soluble timber preservative before fixing or bedding.

#### **JOINTS:-**

All joints will be standard mortised and tenon, devetail, dowe, cross halved, metered, tongued and grooved and rebated, nailed or glued but joints, will not be permitted except in exceptional case, nailed butt joints will not be accepted. All joints shall be smeared with white lead.

Whenever solid wood is specified it shall be as per ISI and of good quality. The type of wood shall be got approved before collecting the same on site. Fabrication of wooden members shall be started only after approval. It shall be free from large, loose, dead of cluster knot, flows, shakes, wraps, bends or any other defect.

It shall be uniform in substance and of straight fibers as far as possible. It shall free from rats, decay, harmful fungi and other dejects of it usefulness for the purpose for which it is required. The colour of wood shall be uniform as far as possible. The scantlings planks, etc. shall be seen in straight lines and planes in the direction of grain and of uniform thickness.

**GLASS:-**

All glass shall be of the best quality, free from specks, bubbles, smokes, veins, air holes, blisters and other defects. The kind of glass to be used shall be as mentioned in the item or specification or in the special provisions or as shown in detailed drawings. Thickness of glass panel shall be uniform. All glass to be approved manufacture complying with IS : 3548 – 196 or as per approved quality and sample.

The compound for glazing to metal is to be special non-hardening compound manufacture for the purpose and of 9 brand and quality approved the Interior Designer.

In cutting glass, proper allowance shall be made for expansion. Each square of glazing to be in one whole sheet and after cutting the edges to be properly filled.

On completion, clean all glass inside and out, replace all cracked, scratched or broken panes and leave in good condition to the satisfaction of the Executive Engineer.

**MELAMINE FACED PARTICAL BOARD :-**

It should be three layered wood based particle board, such as Novapan melamine faced pre-laminated on both sides. Particleboard should be ISI 3087FPTH (Type-II, 1965) marked on edges and should also confirm to German Din Standard viz DIN 66761. It should impart good bending strength, modules of elasticity, internal bond strength and screw holding strength. Melamine faced surface should has resistant to crack at 100 and should pass cigarette burn test.

**POLISH:-**

The wooden articles to be polished shall be first prepared to smooth surface with 400 fit black water proof sand paper. All dents shall be filled with epoxy putty and to be finally finished with DUCO, N.C. clear lacquer to a silk smooth finish.

**PU POLISH:-**

The wooden articles to be polished as per the manufactures specification and workmanship to be of 1<sup>st</sup> class. (ASIAN / MRF / NEROLAC / ICI BELCO).

**PLY WOOD:-**

Plywood for general purpose shall confirm ISI 303 – 1975. It shall be of B.W.R. grade in the specified thickness for the commercial type B.W.R. Grade in the specified thickness for the commercial type B.W.R. Grade plywood, formed with 0.8 mm. Th. Commercial face veneers and 1.5 mm thick. Intermediate veneers in two opposite grain direction shall be 1:1. The moisture content shall not be more that 12.5% by mass. It shall be of CENTURY make or other equivalent approved made. Where B.W.P. grade is specified it should be boiling water proof confirming to I.S. Standards.

**FASTENINGS AND HARDWARE:-**

The fixtures and fastenings, that is, butt hinges, teened strap hinges, sliding door bolts, tower bolts, door latch, bath room latch, handles, door stoppers, casement window fasteners, casement stays and ventilators catch shall be made of the metal as specified in the item or its specifications.

They shall be of iron, brass, aluminium, chromium plated iron, chromium plated brass copper oxidized iron copper oxidized brass or anodized aluminium as specified.

The fixtures shall be heavy type. The fixtures and fastenings shall be smooth finished and shall be such as well ensure case of operation.

The samples of fixtures and fastenings shall be got approved as regards quality and shape before providing them in position. Brass and anodized aluminium fixtures and fastenings shall be bright finished.

Screws, nails, bolts will be of brass or other non-corrosive metal. In hardware, they will match the finish of the hardware item.

Nails, in a finished surface shall be neatly punched and the hole filled with wood filler matching the finish. Screws, in a finished surface will be round head, raised head or sunk beneath the surfaces and the hole plugged with a wood plug with matching colour and grain of the wood surface, unless especially detailed.

### **HARDWARE:-**

Hinges, locks, latches, door tracks, etc, shall be as specified by the manufacturer specified. In any variation of this quality of the substitute shall be equal to or better than the original specified, and samples should be submitted to the OI DC for prior approval.

### **HARDWARE AND METALS:-**

The hardware throughout shall be of approved manufacture and supply well made and equal in every respect to the samples to be deposited with the OI DC. The Contractor may be required to produce and provided samples from many different sources before the Architect is able to make a decision and he should allow in his rates for so doing.

Fittings generally shall have a satin chrome or anodized finish unless otherwise specified, and shall be suitable for their intended purposes.

Screws are to match the finish of the article to be fixed and to be rounded of flat headed or counter sunk as required.

Cover up and protect at the brass and bronze surfaces with a thick grease or other suitable protective material, renew as necessary and subsequently clean off and clear away on completion.

Aluminium and stainless steel shall be of approved manufacture and suitable for its particular application. Generally, the surfaces of aluminium shall have an anodized finish and both shall comply with the samples approved by the Executive Engineer.

All steel brass, bronze, aluminium and stainless steel articles shall be submitted to a reasonable test for strength, if so required by the Architect at the Contractor's expenses.

All brazing and welds are to be executed in a clean and smooth manner rubbed down and left in the flat test and tidiest way, particularly where exposed.

Chromium plated shall be in accordance with B.S. 1224 or as per approved specifications and shall be on a base materials of copper or brass or as specified by Architect.

### **ENAMEL PAINTS:**

Oil paints shall be of 1<sup>st</sup> quality and the specified colour and shade, and as approved. The ready mixed paints shall only be used. However, if ready mixed paint of specified shade or tint is not available while ready mixed paint with approved stainer will be allowed. In such a case, the Contractor shall ensure that the shade of the paint so allowed shall be uniform.

All the paints shall meet with the following general requirements :-

- a) Paint shall not show excessive setting in a freshly opened full can and shall easily be re-disbursed with a paddle to a smooth homogeneous stage. The paint shall show no curdling, livering, caking or colour separation and shall be free from lumps and skins.
- b) Paint as received shall brush easily, possess good leveling properties and show no running or suggesting tendencies.
- c) The paint shall not skin within 48 hours in a three-quarters filled closed container.
- d) The paint shall dry to a smooth uniform finish free from roughness, grit, unevenness and other imperfections. Ready mixed paint shall be used exactly as received from the manufacturers and generally according to their instructions and without any admixtures what-so-ever.

### **PLASTIC EMULSION PAINT:-**

Pigmented priming coat (emulsion thinned with water) followed by three or more finishing coats of plastic emulsion paint. Pasted filler to be applied after every coat exempting the final finishing coat and sanded.

### **LAMINATES:-**

All the laminate to be used shall be of 1.5 mm thickness in approved the colour and shade as approved and specified by the Architect. It shall be matt finish manufactured by Formica India Limited or its equivalent as per the sample shown by the Consultant unless otherwise specified. It shall satisfy all the I.S.I. Standards for melamine coated laminated fiber boards Contractor shall have to take approval of the Department for each sheet of the laminates.

**VEENERS:-**

The best quality natural wood veneers of the specified wood and of the specified thickness shall be used. It shall be in matching group and of uniform shade and as per the selection and approval. The Contractor shall have to obtained the approval of the prior to pressing of veneers. The contractor shall have to use the brand of veneers as approved by the Executive Engineer.

**RUBBER:-**

Natural latex rubber (Geo foam or its equivalent) of specified density and the thickness shall be used for all the cushions and padding for upholstered furniture. Loose cushions of all furniture should have solid foam walling to keep up proper shape.

**UPHOLSTERY:-**

This will be of first class standard workmanship with webbing no-sag springs, coiled springs, padding and filling as specified on drawing. Covering fabrics will be shown tufted and corded as shown on the drawing and as approved by the employer.

**CUSHION VENTS:-**

Brass or aluminium 'cushion vents' should be installed at the back or underside of seat cushions (especially those covered in leather evenly plastic or very tightly woven fabric) to allow air to escape and to prevent torn seams.

**P.O.P. / GYPSUM BAORD:-**

Specification of material for P.O.P. work shall be Class-I quality.

## GENERAL SPECIFICATION FOR ELECTRICAL WORK

### **CONDUIT WIRING & LIGHTING:**

**SCOPE:** The scope of work shall cover supply installation, testing and commissioning of all conduit wiring.

The conduits shall be of GI / PVC as specified.

All conduits shall be GI except where the same are embedded in RCC or brick, where they can be in PVC.

All G.I. Conduits shall be heavy gauge solid drawn or welded black stove enameled and shall be of the following gauges :

G.I. Conduit :

Upto 32mm dia - 16 SWG (1.6 mm)

Over 32mm dia - 14 SWG (2.0 mm)

**All PVC conduits will be heavy gauge range.**

Flexible conduits shall be formed from a continuous length of spirally interlocked strip steel having a fused zinc coating on both sides. The conduit shall be terminated in brass adopters. Maximum length of flexible conduit shall not exceed 1.0 mm.

### **ACCESSORIES:-**

All wires shall be PVC insulated with single core copper or aluminium to I.S. 694 conductors as specified and shall be 650 / 1100 volt grade. Fire resistant wires shall be provided where mentioned in the BOQ.

<b>PHASE</b>	<b>COLOUR OF WIRE</b>
R	Red
Y	Yellow
B	Blue
N	Black
Earth	Green
Control	Grey

## **INSTALLATION:-**

The size of conduits shall be selected in accordance with the number of wires permitted under table given below. The minimum size of the conduit be 19 mm dia. Unless otherwise indicated or approved Size of wire shall be not less than 1.5. Sq.mm. copper.

<b>Standard Copper wires</b>	<b>Solid aluminium Wire</b>	<b>Nominal Cross Sec. (Sq.mm) ZXC</b>	<b>19mm</b>	<b>25mm</b>	<b>32mm</b>	<b>40mm</b>	<b>50mm</b>
3/0.737	1/1.4	1.50	3	6	14		
3/1.06	1/1.80	2.50	2	4	8		
7/0.85	½.24	4.00	2	3	6		
7/1.06	½.80	6.00		3	6		
7/1.40	1/3.55	10.00		2	4	6	
		16.00					6
		25.00				4	6
		35.00				3	5

Conduits shall be kept at a minimum of 300 mm from the pipes of other non-electrical services when run parallel and 100mm in height when run perpendicular.

Layout of conduits shall be generally as indicated on Agency's shop drgs. And the layout shall be supplemented and complemented by Agency on site with the approval of the Engineer-in-charge.

Wiring for short extensions to outlets in hanging ceiling or to vibrating equipment's, meters, etc. be installed in flexible conduits. Otherwise rigid conduits shall be used. Length of flexible conduit in each case shall not exceed 750 mm.

Conduits run on surface shall be supported on metal 6 mm thick saddles which in turn are properly screwed to the wall or ceiling. Saddles shall be at intervals of not more than 500 mm. Fixing screw shall be with round or cheese head and or rust proof materials. Exposed conduits shall be neatly run parallel or at right angles to the walls of the building. Unseemly conduit bends and offsets shall be avoided by using fabricated mild steel junction / boxes through boxes for better appearance. No cross-over conduits shall be allowed unless it is necessary entire conduit installation shall be clean and neat in appearance.

Conduits embedded into the walls shall be fixed by means of staples at not more than 500 mm intervals. Chase in the wall shall be neatly and refilled after laying the conduit and brought to the finish of the wall.

Conduits buried in concrete structure shall be position and securely fastened to the reinforcement and got approved by the Engineer-in-Charge, prior to the time concrete is poured. Proper care shall be taken to ensure that the conduits are neither dislocated nor choked at the time of pouring the concrete. Separate fish wires shall be drawn in all conduits before they are embedded. Where conduits passes through expansion joints in the building, adequate fittings shall be used to take care of any relative movement.

Inspection boxes shall be provided for periodical inspection to facilitate drawl removal of wires. Such inspection boxes shall be flush with the wall or ceiling in the case of concealed conduits. Inspection boxes shall be spaced at not than 12 meters apart or to 90 degree bends or equal. All junction and switch boxes shall be covered with 6mm clear Perspex plate or other material directed by consultant truly cut and fixed using cadmium plated brass screws. These junction boxes shall from part of point wiring or conduit wiring as the case may be including the cost of removing the Perspex cover for painting and refixing. No Separate charges shall be allowed except where specially mentioned.

Conduits shall be free from sharp edges ad burns and the threading free from grease or oil. Threading system of conduits must be completely installed and rendered electrically continuous before the conductors are pulled in. Conduits should be terminated in junction boxes of not less than 32 mm depth.

A bare earth wire of not less than 2.5 Sq.mm section copper shall be run with each conduit. Where more conduits are urn, the earth wires shall be provided as following, interconnection all the conduits on both sides of a threaded joint with copper earth clamps.

Upto 4 Nos. conduits	2 Nos. earth wires min. 1.5 Sq.mm, copper
Upto 8 Nos. conduits	3 Nos. earth wires min. 2.5 Sq.mm, copper
Upto 12 Nos. conduits	4 Nos. earth wires min. 2.5 Sq.mm, copper

Where an insulated earth wire is specified in the schedule of work, the conductor shall be 2.5 Sq.mm or specified in Bill Of Quantity standard copper PVC insulated pulled along with the phase conductors. The insulated earth wire shall be pulled in each conduit. The schedule of work defines where insulated earth wire or bare earth wire is to be used.

### **LIGHTING AND POWER WIRING:-**

All final branch circuit for lighting and appliances shall be single conductor cable run inside conduits. Conduits shall be properly treaded and screwed into bends, junction boxes.

Branch circuit conductor sizes shall be as shown in schedule of quantities and / or drawings.

Not more than 4 final branch circuits shall be carried in one conduit. Wires of the same phase shall be drawn in one conduit except in the case of 2 Ph / 3 Ph circuits. Each lighting branch circuit shall have not more that ten outlets or 800 watts whichever is lower.

Flexible cords for connection to appliances fans and pendants shall be 650 / 1100V Grade (three or four core with insulated neutral wire of same size) with tinned standard copper wires, insulated, twisted and sheathed with strengthening cord.

Looping system of wiring shall be used. Wires shall not be jointed. No such joints shall be made unless the length of sub circuit, sub-main is more than the length of the standard coil. Where joints are unavoidable, these shall be made through approved mechanical connectors.

### **CEILING ROSES:-**

These shall be of Bakelite and of approved make and colour and shall not contain fust terminals. These shall be provided with brass ceiling plate and M.T. Brass screws and washers with cord grip for termination of wires.

Plate type, molded design – switches on white Urea Power pressed cover plates.

These shall be of single pole, double pole, two ways, one ways, one ways or otherwise as called for in the Schedule. These shall be manufactured as per relevant IS Codes and shall amply to Indian Electricity Rules. The minimum rating shall be 5 A at 250 V AC.

**SOCKET OUTLETS WITH PLUGS:-**

These shall be white Urea Powder pressed sockets in 2 pin and earth design of best quality, suitable for single phase, 250 volts supply. The earth pin shall be effectively connected to the nearest earth connections in distribution Board / Switch Board with not less than 3 mm<sup>2</sup> (No. 14 SWG) copper wire. The socket outlets shall be in Plano Type flush mounting or on plate designs as called for in the schedule:

**INTERLOCKED METAL CLAD SWITCH FUSE UNITS:-**

The Metal Clad switch fuse unit shall be of the heavy duty type, quick make and break action, of any approved pattern and capable of carrying continuously the current specified. All the switch fuse units shall have "U" type contacts on fuse carriers and the switch fuse units of capacities 30 amps and above shall be provided with spring type contacts on the fuse bases. Unless otherwise specifically brought out in the schedule the metal cases shall be of cast iron and shall be provided with knock – outs for incoming and outgoing pipes or cables and earthing terminals. The cover of the switch shall be interlocked with the switch handle so that the cover cannot be opened unless the switch is "OFF" and the switch cannot be made on unless the cover is fixed.

**TESTING:** - The entire installation shall be tested for :

- a) Insulation resistance,
- b) Earth continuity.
- c) Polarity of Single pole switches.

## **GENERAL SPECIFICATION FOR CIVIL WORK**

### **PLAIN & REINFORCED CEMENT CONCRETE:**

#### **MATERIAL:-**

**Fine Aggregate: -** All fine aggregate shall conform to IS : 383 and relevant portion of IS : 5151. Sand for use in concrete shall be natural sand. Sand shall be clean, well graded, hard, strong, durable and gritty particles free from injurious amounts of dust, clay kankar, loam, mica or other deleterious matters. Sand shall be from approved sources only. Sea sand shall not be used.

Fine aggregate for concrete shall be graded within limits given in table IV in Para-5, IS : 383. Fineness modulus shall range from 2.6 to 3.6. Fine aggregate shall be tested at random by the Engineer in accordance with provisions of I.S. and results maintained. Alkali-aggregate reactivity tests shall also be carried out to find its suitability with respect to limits specified.

#### **COARSE AGGREGATE:-**

Coarse aggregates shall consist of broken trap stone and be hard, strong, dense, clean, of proper gradation and free from skin and coating likely to prevent adhesion to mortar. It shall generally conform to IS : 383 Grading of aggregate shall be in accordance with specification Clause A-7.3 to A-7.5 "Standard Specifications " of PWD Department. Alkali aggregate reactivity test shall also be carried out to find its suitability with respect to limits specified in I.S. Code.

#### **CEMENT:-**

Cement shall be ISI marked. Only OPC conforming to relevant IS and of 43 Grade and above will be allowed to be used cement of reputed brand, having consistent track record shall be used. The Engineer may direct the contractor to use cement from a list of two to three reputed brands. Preferred brands are L & T and Gujarat Ambuja.

#### **CONTROLLED CONCRETE:-**

Controlled concrete shall comply with relevant provisions in IS : 456 of 1978. The mix of the fine and coarse aggregate, cement and water shall be designed by preliminary tests to give the concrete of desired strength. However, provision made in the particular specifications for controlled concrete shall be binding. Use of approved super plasticizer is obligatory concrete of M: 150 grade mix and above shall be "Zero

Slump Concrete" i.e. Slump required for workability shall be achieved by addition of super plasticizer. The cost of Super-plasticizer shall deemed to have been included in the rates provided. The water cement ratio shall be between 0.36 to 0.40 and shall in no case exceed 0.40.

Before starting the work, the Contractor shall get all the samples of ingredients approved by the Engineer, stating the source of materials.

The specified controlled concrete mix with the material, minimum cement content and workability approved by the Engineer shall be got designed in an approved laboratory (VJTI or equivalent) by the Contractor. The proportions suggested by the laboratory shall be got approved in writing from the Engineer. The method of carrying out trial mix will be as per IS : 456 and further explained herein.

Wherever concrete has been specified by strength minimum cement contents shall be:

For Grade M – 150	-	280 kg. Per Cum.
For Grade M - 200	-	320 kg. Per Cum.
For Grade M – 250	-	350 kg. Per Cum.
For Grade M – 300	-	400 kg. Per Cum.
For Grade M - 350	-	420 kg. Per Cum.
For Grade M – 400	-	450 kg. Per Cum.

In addition to the above, minimum cement content according to exposure conditions given in IS : 456-1978 shall govern. The minimum cement shall be the higher amongst the two values. Unless specified otherwise, severe exposure condition shall be considered for all work below plinth level and moderate for all work above plinth level.

With the minimum cement content it should be possible to obtain the required average strength of concrete mix specified, provided the aggregate and other ingredients are of satisfactory quality and grading. In case, however, the Contractor is unable to obtain the required average strengths with this cement content he will be required to provide increased cement content at his own cost to meet the required strength.

**REINFORCEMENT:-****STEEL:-**

Mild Steel, ribbed tor steel, Ti-strong deformed steel specified for reinforcement shall confirm in every respect to the latest relevant Indian Standard Specifications and shall be of tested quality under the ISI certifications scheme. Re-rolled steel will not be acceptable. All HYSD reinforcement to be used shall be only TMT bars from the original manufacturers like TJSMO / SAIL / VIZAG. Manufacturer's test certificates for every consignment brought to the site shall be furnished by the Contractor. In addition one set of all tests required as per IS shall be carried out for every 30MT of steel brought to the site.

The steel reinforcement used shall be of one of the following:-

Mild steel of the tested quality Grade-I conforming to IS : 432 Part-I (Latest).  
High yield strength deformed bars (TMT reinforcement) with minimum yield strength of 4250kg per Sq.CM conforming to IS: 1786 (Latest),

The reinforcement shall be free from pitting due to corrosion, mill scale, loose rust, grease, oil paint or any other material considered deleterious by the Engineer. Every bar shall be inspected before assembling on the work and defective, brittle or burnt bars shall be discarded. Cracked ends of bars shall be cutout.

**VITRIFIED TILES IN FLOORING / SKIRTING:-**

The base shall be cleaned and the bedding mortar 20mm to 25 mm shall be laid. A neat cement grout shall be spread before laying tiles. The tiles shall be cured for 5 days. The joints shall be filled with cement slurry tinted to match the colour of tiles. For fixing the tiles in skirting the bedding mortar shall be 12mm. The tiles shall conform to relevant I.S. code. The contractor shall produce test certificate for the tiles.

**ALUMINIUM DOORS WINDOWS AND VENTILATORS:-**

MATERIALS: - Aluminium alloy used in the manufacture of extruded window sections shall correspond to IS Designation HE 9 WP of IS 733. Hollow aluminum alloy sections used shall conform to IS Designation HV9-WP of IS 1285. Machine screws used shall

conform to the requirements of IS 1362. Also cadmium plated screws, nuts, washers, bolts, lugs of steel shall be used on direction of the Engineer.

Specially designed and extruded sections may be permitted if supporting design calculations for wind load are submitted to the Engineer for approval. All aluminium material used shall be anodized for protection against corrosion in marine atmospheres. A thick coating of 25 microns (on each face) from a sulfuric acid bath shall improve its corrosion resistance. Further, anodized sections should be double sealed or alternatively, sealed by exposure to steam. Anodized material received at site shall be with a certificate confirming anodic coating of 25 micron. The Engineer may get the same tested from outside at the cost of contractor as per IS : 5523.

Powder coated aluminum, if specified shall be used as approved by the Engineer.

**Subdividing bars of units shall be tenoned and riveted into the frame Sections used shall conform to IS 1948 for respective locations or as approved by the Engineer.**

Fitting and fixtures shall be as detailed in ISI-1948.

Fly screen shall not be provided.

Fittings and fixtures shall be as detailed or approved by the Engineer and conforming to IS 1948. Casement shutter shall have pegstay, Handles, locks samples shall be submitted prior to being used for final approval of the Engineer.

EDPM / Neoprene preformed profiles shall be used for inserting into extruded pockets of sections. Glazing beads shall also be of EDPM / Neoprene preformed profiles to hold the glass in frame under pressure. Non metallic setting blocks shall be used to centralize the glass in frame.

Stainless steel ball bearing, housed in nylon type nylon rollers, shall be used. All mechanical connections shall be sealed with silicon sealant. Around all windows, approved quality sealant shall be run down to make sure of total weather / water sealing.

**PLASTERING:-**

Indian Standards to be followed are :-

01.	IS 383	Specification for coarse and fine aggregates from natural sources for concrete.
02.	IS 412 Steel	Specifications for expanded metal sheets for general purposes.
03.	IS 1542	Specifications for sand for plaster.
04.	IS 1635	Code of practice for filed slaking building time and preparation of putty.
05.	IS 1661	Code of practice for application of cement and cement-lime plaster finish.
06.	IS 2394 Plaster	Code of practice for application of lime finish
07.	IS 2402	Code of practice for external.

Plastering shall be independent of the walls. Hotels in masonry for supporting scaffolding will not be permitted. Scaffolding shall be done using 'H1' type steel frames. The specification for cement plaster shall be in conformity with Clause-B.11 of Standard Specification. Plastering covers rounding up of corners and angles, finishing of top of dado / skirting with a triangular fillet plastering shall be laid in single coat where neeru is required to be given. Provision of grooves, drip moulds, Pani-pattis, etc. are covered in the rate of the item.

**All the Civil work should be carried out as per CPWD Specifications Volume-I & Volume- II and other all related specifications.**

### LIST OF INDIAN STANDARDS REFERRED TO

(01)	I.S. No. 1200 – Latest measurement of building and Civil Engineering work.
(02)	I.S. No. 287 – 1973. Recommendation for maximum permissible moisture content of Timber used for different purposes in different climatic zones.
(03)	I.S. No. 1141 – 1973 code of practice for seasoning of timber.
(04)	I.S. No. 6534 – 1971 guiding principles for grading and inspection of timber.
(05)	I.S. No. 1200 (Part XXI) 1973 Method of measurement of building and Civil Engineering works. Part XXI wood work and joinery.
(06)	I.S. No. 3845 – 1966 code of practice for joints used in wooden furniture.
(07)	I.S. No. 4000 – 1967. Wooden flush doors. Type to method of test for.
(08)	I.S. No. 4970 – 1973. Key for identification of commercial timbers.
(09)	I.S. No. 3364 (Part-II) – 1975, Method of Measurement and evaluation of defects in timber , Part-II converted timber.
(10)	I.S. No. 1708 – 1969. Method of testing small clear specimens of timber.
(11)	I.S. No. 6342 – 1971. Rose wood logs for production of sliced veneers.
(12)	I.S. No. 5248 – 1969. Teak logs for production of sliced veneers.
(13)	I.S. No. 2202 (Part-I) 1973. Specification for wooden flush door shutters (Solid core type Part-I plywood).
(14)	I.S. No. 2338 (Part-I) – 1967. Code of practice for finishing of wood and wood based materials Part-I operations and workmanship.
(15)	I.S. No. 7630 – 1975. Methods of sampling of plywood.
(16)	I.S. No. 303 – 1975. Specification for plywood for general purposes.
(17)	I.S. No. 3129 – 1965. Specification for article board for insulation purposes.
(18)	I.S. No. 3513 – 1966. (Part-I S.No. & Part-IV). High and medium density wood based laminates part-I, S.No. general purposes. Part-IV sampling test.
(19)	I.S. No. 1659 – 1979 block boards.

(20)	I.S. No. 7316 – 1974. Decorative plywood using plurality of veneers for decorative faces.
(21)	I.S. No. 3478 – 1966. High density wood particle boards.
(22)	I.S. No. 1734 (Part-I to XX). Plywood method of test for Part-I - General Part-II - Plywood Part-III - Battens
(23)	I.S. No. 1328 – 1970. Veneer decorative plywood.
(24)	I.S. No. 710 – Marine Ply.
(25)	I.S. No. 3087 – 1965. Wood particle boards (Medium density)
(26)	I.S. No. 848 – 1974. Specification for synthetic resin adhesives for plywood (Phenolic & Aminoplastic)
(27)	I.S. No. 2046 – 1969. Specification for decorative laminate.
(28)	I.S. No. 8273 – 1976. Fibrous gypsum plaster boards.
(29)	I.S. No. 2095 – 1964. Gypsum plaster boards.
(30)	I.S. No. 2542 (Part-I) – 1978. Gypsum plaster concrete and products, methods of test for part-I plaster and concrete.
(31)	I.S. No. 8272 – 1976. Gypsum plaster for use in the manufacture of fibrous plaster boards.
(32)	I.S. No. 2441 – 1963. Fixing coiling coverings code of practice for.
(33)	I.S. No. 2835 – 1977. Specification for flat transparent sheet glass.
(34)	I.S. No. 2395 (Part-I) – 1966 2395 (Part-II) – 1967 Painting to concrete's, masonry, plaster surfaces code of practice for part-I operation and workmanship Part-II schedule.
(35)	I.S. No. 3548 – 1966. Glazing in building code of practice for.
(36)	I.S. No. 6278 – 1971. White washing and colour washing, code for practice for.
(37)	I.S. No. 137 – 1965. Specification for ready mixed paint brushing, matt or egg shall flat finishing, interior to Indian standards colours as required.
(38)	I.S. No. 133 – 1975. Specification for ready mixed paint brushing, wooden coating, interior to Indian Standard colours.

(39)	I.S. No. 129 – 1950. Specification for enamel interior (a) under coating (b) finishing.
(40)	I.S. No. 120 – 1950. Specification for ready mixed paint brushing gray filler for enamel for use over primer.
(41)	I.S. No. 129 – 1950. Specification for ready mixed paint brushing, finishing, interior, oil gloss, for general purposes to Indian standard colours.
(42)	I.S. No. 533 – 1973. Specification for gum sprit of turpentine (oil of turpentine)
(43)	I.S. No. 101 – 1964. Methods of test for ready mixed paints and enamel.
(44)	I.S. No. 75 – 1973. Specification for linseed oil, and refined.
(45)	I.S. No. 77 – 1976. Specification for linseed oil, boiled for paint.
(46)	I.S. No. 124 (Part-I) – 1976. Specification for ready mixed paint brushing, finishing, semi glosses, for general purpose.
(47)	I.S. No. 5884 – Specification for woolen carpets.
(48)	I.S. No. 104 – 1979. Specification for ready mixed paint brushing, finishing, zinc chrome primer.
(49)	I.S. No. 5391 – 1969. Adjustable metal chairs for use of typist and operators in telephone exchanges.
(50)	I.S. No. 8756 – 1978. Ball Catches for use in wooden almirahs.
(51)	I.S. No. 3499 – 1976 (Part-II) chairs for office purposes metal revolving and tilt in.
(52)	I.S. No. 5416 – 1969. General purpose wooden chairs methods of test for.
(53)	I.S. No. 6185 – 1971. High chairs specification and safety requirements for.
(54)	I.S. No. 4116 – 1976. Joints used in wooden furniture code of practice for.
(55)	I.S. No. 3845 – 1966. Joints used in wooden furniture code of practice for.
(56)	I.S. No. 7070 – 1973. Shelving racks wooden (adjustable and non-adjustable type)
(57)	I.S. No. 4414 – 1977. Table tops (wooden).
(58)	I.S. No. 5967 – 1969. Tables, wooden, methods of test for.
(59)	I.S. No. 3564 – 1975. Door Closures (hydraulically regulated.)

(60)	I.S. No. 799 – 1979. Drawer locks, cupboards and box locks.
(61)	I.S. No. 7981 – (Part-I) – 1975. Glossary of terms relating to builders hardware Part-I locks.
(62)	I.S. No. 7981 – (Part-I) – 1975. Glossary of terms relating to builders hardware Part-I locks.

**NB: -** The various items to be used in the interior decoration work shall be of BRANDED manufactures of market leaders above clause is only for specifying ISI standards.

## SCHEDULE OF APPROVED MAKES (FOR SCHEDULE-'B')

(01)	Glass	: Saint Gobain / Modiguard Float
(02)	Plywood (W.P.)	: Century / Euro / Kitply / Green-Lam
(03)	Plastic Paint	: Asian Paints / Nerolac Paints
(04)	Adhesives	: Pidilite
(05)	Hardware	: Hettich / Godrej / Glitters
(06)	Laminates	: Royale Touche / Green-Lam / Euro
(07)	Door Closer	: Godrej
(08)	Wood	: Valsadi Teak Wood
(09)	Glass Wool	: Lyoyds / Fibreglass / Pikington
(10)	Gypsum Board Ceiling	: India Gypsum Co. Ltd.
(11)	Latex Rubber	: Geofom
(12)	Particle Board	: Deco Board of Backlite Hylam / Novapan / Bhutan.
(13)	Lock	: Godrej / Hettich.
(14)	Floor Spring	: Hitco / Dorma / Amar / Yale
(15)	Venetian Blinds	: Vista Levalor or Trac of Inter Arch.
(16)	Auto Close hinges	: Hettich
(17)	Handle for drawers & storage	: Aeries / Efficient Gadget / Glitters / Hettich
(18)	Wooden Flooring	: Tarkett / Pergo
(19)	PU Polish / Melamine Polish	: Asian / MRF / ICI Belco.
(20)	Compact Laminate	: Marino / Alfaica
(21)	Light Futures	: Art Light / Wipro / GE / Philips
(22)	PVC Conduit	: Precision
(23)	FRLS Wiring in 600 / 1100 Volts Grade for light / power point	: Finolex / Polycab / RR Cable
(24)	Modular type switches & Sockets	: LK Fuga / MK
(25)	Exhaust / Ceiling wall fans	: Hevelles / Orient / Khaitan.
(26)	Telephone cable, wire	: Finolex
(27)	Telephone Tag Block	: Krone
(28)	Industrial Metal clade switches	: Havelles / MDS
(29)	MCB, DB	: Simenes / I&T / Indo-Asian Golding.
(30)	GI Pipes	: Tata / Zenith / Jindal
(31)	Cocks / Taps	: Jaquar / Mark
(32)	Sanitary Pans	: Hindustan / Parryware / Cera
(33)	Adhesive	: Fevicol-sh, Mafatlai's Movicol- Hv Ciba-Geigy's Aralide
(33)	Wood preservatives	: Bison by British Paints, Termiseal by Pci
(34)	PU Polish/ Malemine Polish	: Preferably MRF or first quality Asian paint
(35)	Water proofing compound	: Roffe/Impermo/Fosrock/Sica
(36)	Glazing	: Saint Gobain/Modiguard float
(37)	Glass wool	: Lyoyds/Fibreglass/Pilkingtone
(38)	Gypsum board Ceiling	: Indian Gypsum Co. Ltd.
(39)	Grid celing	: Armstrong/USG/Hunter-Duglous

(40)	Red oxide primer paint	: Asian, Bombay paint, Murcury paints Goodless Nerolac
(41)	Polyurathene Foam	: U-foam or equivalent
(42)	Rubber foam	: Mm rubber foam or Geofoam
(43)	Fabric protection coating	: Scotch guard of "3M"
(44)	Viny flooring	: Armstrong
(45)	Carpet	: C.C.Carpet/Shwmark/standard
(46)	Pest Control	: Pest control & Anti termite treatement for complete interior, room work to be done by local renowed contractor.
(47)	Venetian Blinds	: Visa, Mac, Luxaflux & Arolux
(48)	Aluminium Sections	: Jindal, Indal
(49)	Structural steel	: Tata steel
(50)	Cement	: Ordinary Portland cement of Larsen & Tubro, Ambuja, ACC century cement, Sanghi cement
(51)	Reinforcement / structural steel	: Sail/Tisco/ VISAG (RINL)
(52)	White cement	: J.K.Cement or Biral white.
(53)	Sand, fine aggregate, Coarse aggregates, Bricks, stone slab & murrum filling, Lime	: Locally available material dully tested.
(54)	Tiles	: Johnson/Bell
(55)	Hardners	: Ironite/Ferok/Hardonate
(56)	Red oxide	: Shalimar/Eomite/Blundel/Asian/Jens on & Nicholson
(57)	Cement Paint	: Snowcem
(58)	Cast iron fittings	: Nicco
(59)	PVC pipes	: Prince Finolex
(60)	Vitrified tiles	: Johnson/Nitco
(61)	Air conditioning	: Voltas/Bluestar/Carrier/Samsung/ Onida/Videocon etc.

**NOTE:-**

The Contractor should obtain prior approval from Engineer-in-charge before placing order for any specific material / agency.

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**Scope of Work:-**

1. Furnishing work of the library building.
2. False ceiling work for the library building.
3. Electrification/ telephone system/ lan system for computers etc. as per requirement of the client for the library building
4. Civil work of strengthening of wall is to be carried out with special treatment for library building.
5. Air conditioning work of the library building.
6. Plumbing & sanitary work of the library building as per necessity of the interior designing.
7. Water proofing for library building terrace.
8. Flooring, Painting & Anti-termite treatment for the library building.
9. Elevation treatment for the entrance of the library building.
10. And other work (including civil, plumbing etc.) if necessary as per planning and designing of the Contractor.

## **ENVELOP- II (PERFORMA)**

Cost of the various work are required to be submitted in following format :-

Sr.No	Particulars	Quantity	Unit	Rate	Amount
	Deatiled specification of the item to be carried out alongwith the approved make, approved color & full details of the items and mode of execution		Units of the items should be IS units i.e. meter, sqmt, cumt, etc.		
	<b>Grand Total of the total work</b>				

### **NOTE:-**

All the rates and prices in the tender shall cover Sales Tax / VAT, Octroi, Other all Taxes, Excise and Duties & Labours, etc, of the State and Central Government Bodies, Statutory Bodies which are in force and which may be imposed in future etc, with transportation etc, to be paid by tenderer for the work and claimed for extra payment on any such account shall not be entertained.

**All Civil Work should be carried out as per CPWD specifications.**