

**BANK OF BARODA,
REGIONAL MANAGER (AGM)
REGIONAL OFFICE, P&E DEPT.,
4TH FLOOR, MILLENIUM PLAZA,
NR UPASANA CIRCLE, WADHWAN
SURENDRANAGAR – 363 002.**



Bank of Baroda, Surendranagar Region invites sealed Tender / Bid for proposed Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr Reliance Trendz, Surendranagar, Gujarat.

**भाग / PART – I,
तकनीकी बोली / TECHNICAL BID,
(सीलबन्द लिफाफे में जमा करना होगा), (To be submitted in Sealed Envelope),**

**निविदा शुरू होने की तारीख / Start date of Tender - 08.03.2024,
निविदा जमा करने की अंतिम तिथि/Last date of submission of Tender- 28.03.2024,
3.00 PM**

तकनीकी और मूल्य बोलियां खोली जाएगी / Opening of Technical Bids on 28.03.2024, 3.30 PM,

**BANK OF BARODA,
REGIONAL MANAGER (AGM)
REGIONAL OFFICE, P&E DEPT.,
4TH FLOOR, MILLENIUM PLAZA,
NR UPASANA CIRCLE, WADHWAN
SURENDRANAGAR – 363 002.**

**भाग / PART – I,
तकनीकी बोली / TECHNICAL BID**

NOTICE INVITING TENDER

Bank of Baroda (BOB) invites sealed Tender / Bid for proposed Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at alternate premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr Reliance Trendz, Surendranagar, Gujarat.

Details of tenders are as under:

Name of Work: Proposed Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at alternate premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr Reliance Trendz, Surendranagar, Gujarat.

- Time allowed for completion – 3 Weeks
- Earnest Money Deposit : Rs. 29,000/- (Rupees Twenty Nine Thousand Only) submit online through NEFT/RTGS on the details below:
Bank: BANK OF BARODA
Branch: Wadhwan Branch, Wadhwan.
IFSC: BARB0WADHWA ('0' is Zero)
Account Name: REGIONAL OFFICE BHAVNAGAR II
Account Type: OD
Account No.: 03480400000334
- Security Deposit for Defect's Liability Period: 5% of contract value.
- Cost of Tender documents : NIL
- Availability of Tender Documents: Bank of Baroda, Regional Office, P&E Dept., 4th Floor, Millenium Plaza, Nr. Upasana Circle, Wadhwan, Surendranagar – 363 002 from 08/03/2024 to 28/03/2024 during Office Hours i.e. 10 am to 3 PM except on Sundays and Holidays. The Tender may also be downloaded from Bank's website: www.bankofbaroda.com/tender.asp
- Last date and time of receipt of tenders : Up to 03.00 P.M. on 28.03.2024.
- Address at which the tenders are to be submitted : Bank of Baroda, Regional Manager (AGM), Regional Office, P&E Dept., 4th Floor, Millenium Plaza, Nr. Upasana Circle, Wadhwan, Surendranagar – 363 002.
Tenders to be dropped in the tender box placed in the above office.
- Date and time of opening of tender : Technical Bid / Cover I – 28.03.2024 at 3:30 PM
- Place of opening tenders: Bank of Baroda, Regional Office, P&E Dept., 4th Floor, Millenium Plaza, Nr. Upasana Circle, Wadhwan, Surendranagar – 363 002.
- Defects Liability Period: 12 Months from the date of completion certificate issued by the Bank Engineer.
- Validity of offer: 90 days from the date of opening of price bid of tender.
- Liquidated Damages: 0.5% per week subject to maximum of 10% of the accepted contract sum.
- ~~Performance Guarantee (Bank Guarantee) : An amount equal to 10% of the value of this CAMC work. Amount to be submitted as Bank Guarantee / FDR (in joint name with Bank as the first party) before 10 days of start date of CAMC period of 05 years (valid up to completion period of the CAM contract/extended period if permitted). No extra charge is payable on extension of BG by Bank.~~
- Tender will be issued in two parts: Part I: Containing terms and conditions, specifications etc. and Part II: The Bill of Quantity which shall have to be filled up as the Price Bid.
- Tender shall have to be submitted in two Covers, Cover I and II, both addressed to Bank of Baroda, Regional Manager (AGM), Regional Office, P&E Dept., 4th Floor, Millenium Plaza, Nr. Upasana Circle, Wadhwan, Surendranagar – 363 002 Tel : 02752350019/0022, e-mail - pe.rosurendranagar@bankofbaroda.com

Bidders Signature with Stamp and date

Invites sealed Tender / Bid for Interior, Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.

Cover I shall be super scribed "Proposed Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at alternate **Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr Reliance Trendz, Surendranagar, Gujarat.**

- and Cover II "Proposed Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at alternate **Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.**"
- Cover-I: Shall contain Cost of Tender, Earnest Money Deposited counter foil / receipt etc. and Part I of the tender document signed and sealed on each page by authorized signatory. Tenders without Online submitted EMD will be summarily rejected.
- Cover I of the tender shall also contain the following :
 - (a) Power of attorney/authorization with seal of company/ firm in the name of person signing the tender documents.
 - (b) List of deviation, if any, in commercial terms & condition
 - (c) List of deviation, if any, in technical specification.
 - (d) Any other technical information the tenderer wishes to furnish.
 - (e) Technical Literature/Catalogues of the equipment being offered along with related drawings.
- Cover-II: Shall contain the offered price in INDIAN RUPEES only with detailed break up of price as per Bill of Quantity duly filled. Other than an unconditional general rebate, no other condition stipulated in Cover-II shall be accepted.
- Cover-I will be opened on 28.03.2024 at 03:30 PM in the presence of Tenderers who desire to attend. Acceptable tenderers will be intimated about the date and time of opening of price bid. Cover II shall be opened at the price bid opening and for each tender shall be read in conjunction. They shall carry with them such an authorization letter from the company to the opening. In order to expedite the process the representatives deputed by the tenderers at the time of tender opening should also be authorized to take the decision on behalf of the tenderers.
- Delays in submission of any document arising out of the postal irregularities/or any other reason at any stage will not be considered. Also the Bank will not be responsible for damage to tender in transit in case of postal/courier delivery. Late tenders will not be accepted. Tenders without proper Earnest Money Deposit will be rejected.
- In case the date of opening of tenders is declared as a holiday, the tenders will be opened on the next working day at the same time. All bidders are requested to present at time of opening of Technical Bids.
- Bank has the right to accept/reject any/all tenders without assigning any reasons.
- Any Corrigendum/addendum, if any, shall be issued only on Bank's web site. Kindly visit our Bank's website before submission of Tender.
- Mobilization Advance: NIL.
- All liasioning/ licensing/ compliance/ approvals work for the statutory requirement shall be in the scope of the Vendor.
- Those vendors/contractors registered with MSMEUDYAM need not to submit EMD. Instead DD, valid MSMEUDYAM certificate shall be attached / uploaded.

For and behalf of Bank of Baroda

Bidders Signature with Stamp and date

Invites sealed Tender / Bid for Interior, Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.

FORM OF TENDER

To,
Bank of Baroda,
Regional Manager (AGM)
Regional Office, P&E Dept.,
4th Floor, Millenium Plaza, Nr Upasana Circle, Wadhwan,
Surendranagar – 363 002.

Dear Sir,

Having examined the drawings, specifications, designs and bill of quantities, relating to the works specified in the memorandum hereinafter set out and having examined the site of the works specified in the said memorandum and having acquired the requisite information relating thereto as affecting the tender, I/we hereby offer to execute the works specified in the said memorandum at the rates mentioned in the attached bill of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in condition of tender, appendix to the form of tender, articles of agreement, conditions of contract, bill of quantities and with such materials as are provided for, by, and in all other respects in accordance with such conditions so far as they may be applicable.

Memorandum

Description of works	Proposed Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at alternate premises of Surendranagar Main branch at Sukh Shanti, Meghani Marg, Nr Reliance Trendz, Surendranagar, Gujarat.
Earnest money deposit	Rs. 29,000/- online through NEFT/RTGS
Security deposit	Total 5% of the contract value consisting of Initial Security Deposit 2% of contract value including the Earnest Money Deposit & retention amount @ 08% to be deducted from the running bills subject to maximum of 5% of the contract value including Initial Security Deposit.
Time allowed for completion	03 Weeks from the date of commencement

Should this tender be accepted, I/we hereby agree to abide by and fulfill the terms and provisions of the said conditions of contract annexed hereto so far as they may be applicable or in default thereof to forfeit and pay to **BANK OF BARODA** the amount mentioned in the said conditions.

I/we have deposited a sum of **Rs. 29,000/- online through NEFT/RTGS** as earnest money. Should I/we fail to execute the contract when called upon to do so, I/we do hereby agree that this sum shall be forfeited by **BANK OF BARODA**.

All information and documents as required to be submitted with the tenders.

Our bankers are

The names of partners of our firm are

Name of the partner(s) of the firm authorize to sign:

Name of the persons having power of attorney to sign the contract (certified true copy of the power of attorney should be attached).

Yours faithfully,

Place:

Date:

Signature of contractor

Signature and addresses of witnesses

Bidders Signature with Stamp and date

Invites sealed Tender / Bid for Interior, Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.

APPENDIX TO FORM OF TENDER

Item	Reference No	description
Contract value	As per GCC	Total value of the tender as accepted by the employer. The rate quoted shall be firm and shall include all costs, allowances, taxes, levies etc including GST as well as all other costs like transportation, handling etc.
Date of commencement	37 of GCC	-07- Days from the date of work order or the date of instruction for taking possession of site, whichever is later.
Time of completion	39 of GCC	04 Weeks from the date of Commencement.
Liquidated damages for delay	43 of GCC	0.5% per week subject to maximum of 10% of the accepted contract sum
Defect liability period	32 of GCC	12 months from the date of completion certificate issued by the Bank.
Earnest Money deposit		Rs. 29,000/- online through NEFT/RTGS.
Insurance	36 of GCC	As per clause 36 of GCC
Minimum value of RA bills	47(b) of GCC	Rs. 10,00,000/- Lacs
Payment of RA bill	47(c) of GCC	Assessed by Architect within 7 working days and balance amount within 15 working days after submission of bill with complete information and voucher etc.
Initial Security Deposit		The successful tenderer will have to submit a sum equivalent to 2% of contract value less EMD through submit online through NEFT/RTGS as given account details in NIT within a period of 04 days of placement of work order.
Submission of final bill	47(e) of GCC	Within 45 days from the date of final completion as certified by the Engineer.
Payment of final bill	47 (i) of GCC	Within 90 days from the date of submission of the final bill by the contractor
Retention Money		8% of gross value of work in Running bills to a maximum of Balance Security Deposit
Security Deposit		Total security deposit shall be 5% of contract value. Out of this 2% of contract value is in the form of Initial Security Deposit plus EMD. Balance 3% shall be deducted from the running account bill of the work at the rate of 8% of the respective running account bill i.e. deduction from each running bill account will be 8% till total 3% of contract value is reached. 50% of the total security shall be paid to the contractors on the basis of Bank Engineer's / Architect's certification on virtual completion of work. The balance 50% would be paid to the contractors without interest within 30 days after the end of the defect liability period provided the contractor has satisfactorily attended to all defects in accordance with the conditions of contract including site clearance. <u>No interest shall be paid to the amount retained by the Bank as Security Deposit.</u>
Price variation	28 of GCC	Firm price. No escalation
Signing of Contract Documents		The successful tenderer shall be bound to implement the contract by signing an agreement and conditions of contract attached herewith within 07 days from the receipt of intimation of acceptance of his tender by the Bank. However, the written acceptance of the tender by the Bank Engineers on behalf of the Bank will constitute a binding agreement between the Bank and successful tenderer whether such formal agreement is subsequently entered into or not.
AMC		AMC is mandatory and binding on contractor for minimum period of 05 years. Half yearly satisfactory report shall be produced by contractor during DLP/AMC. Payment for AMC will be made half yearly on providing satisfactory services.

ARTICLES OF AGREEMENT
Bidders Signature with Stamp and date

Invites sealed Tender / Bid for Interior, Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.

(Duly Notarized)

ARTICLE OF AGREEMENT made this ____ day _____ of Two Thousand Twenty Four (2024) BETWEEN the **BANK OF BAORDA**, a company incorporated and registered under the Companies Act, 1956 and having its Regional office at **Bank of Baroda, Regional Office, P&E Dept., 4th Floor, Millenium Plaza, Nr. Upasana Circle, Wadhwan, Surendranagar - 363 002**, hereinafter called "Employer" (which expression shall include its successors and assigns wherever the context or meaning shall so require or permit, of the one part and (Hereinafter called the "Contractor") (Which expression shall include its successors and assigns wherever the context or meaning shall so require or permit) of the other part.

WHEREAS the Employer is desirous of carryout the **Proposed Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at alternate premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.**

as mentioned, and has got drawings, specifications and the bill of quantities prepared by their Architects/Consultants which have been signed or on behalf of the parties hereto.

AND WHEREAS the Contractor has agreed to execute upon and subject to the conditions set forth herein and to the conditions set forth in the special conditions and in the Bill of Quantities and conditions of contract (all of which are collectively hereinafter referred to as "The said terms & conditions", the works, shown upon the said drawings and/or described" in the said specifications and included in the said bill of quantities at the respective rates therein set forth amounting to the sum as therein arrived at or such other sum as shall become payable there under (herein after referred to as the said "contract value").

NOW IT IS HEREBY AGREED AS FOLLOWS:

- 01 In consideration of the said Contract Value to be paid at the times and in the manner set forth in the said terms & conditions; the contractor shall upon and subject to the said terms & conditions execute and complete the works shown on the said drawings, and described in the specifications and/or bill of quantities.
- 02 The Employer shall pay the contractor The Said Contract Value or such other sum as shall become payable at times and in the manner specified in the said terms & conditions.
- 03 The said terms & conditions and Appendices thereto shall be read and construed as forming part of this Agreement and the parties hereto shall respectively abide by submit themselves to the said terms & conditions and perform the agreements on their part respectively in the said terms & conditions contained.
- 04 The contract is neither a fixed lump-sum a contract nor a piece work contract but is a contract to carry out the work in respect of the entire work as defined in the contract documents to be paid for according to actual measured quantities at the rates contain in the bill of quantities or as provided in the said contract documents.
- 05 The contract shall afford every reasonable facility for the carrying out of all works relating to DG Sets in the manner laid down in the said conditions, and shall make good any damages done to walls, floors, etc. after the completion of such works.
- 06 The Employer reserves to itself the right of altering the Drawings and nature of the work by adding to or omitting any items of work or having portions of the same carried out without prejudice to this Contract.
- 07 Time shall be considered as the essence of this Contract and the Contractor hereby agrees to commence the work from date of Letter of Acceptance and to complete the entire work within **03 Weeks** subject nevertheless to the provision for extension of time.
- 08 All payments by the Employer under this contract will be made only at Surendranagar
- 09 All disputes arising out of or in any connected with this agreement shall be deemed to have arisen at Surendranagar and only court in Surendranagar shall have jurisdiction to determine the same.
10. That the several parts of this Contract have been read by the Contractor and fully understood by the Contractor. The Contractor shall not be entitled for the payment for the quantities beyond the tendered quantities unless ordered for by specific written instructions from the engineer.

Bidders Signature with Stamp and date

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IN WITNESS WHEREOF THE Employer and the Contractor have set their respective hands to these presents and two duplicates hereof the day and year first hereinabove written. (If the contractor is a partnership or an individual).

IN WITNESS WHEREOF the Employer has set its hand to these presents through its duly authorized official and the Contractor has caused its common seal of to be affixed hereunto and the said two duplicates/has caused these presents and the said two duplicates hereof to be executed on its behalf, the day and year first hereinabove written (If the Contractor is a company).

Signature Clause

SIGNED & DELIVERED by the **BANK OF BARODA** by the hand of
Shri _____ (Name and Designation)

in the presence of (1) _____ Address _____

(2) _____ Address _____

Witness

SIGNED AND DELIVERED BY _____ in the

presence of

(1) _____

Address _____

(2) _____

Address _____

If the party is a partnership firm of an individual should be signed by all or on behalf of all partners.

Witness

THE COMMON SEAL OF _____

Was hereunto affixed pursuant to the resolutions passed by its Board of Directors at the meeting held on _____ in the presence of

(1) _____

(2) _____

Directors who have signed these presence in token thereof in the presence of

(1) _____

(2) _____

If the contractor signs under its common seal the signature clause should tally with the sealing clause in the Articles of Association.

SIGNED AND DELIVERED by _____ the contractor by the hand of _____ Shri

And duly constituted attorney

If the Contractor is signing by the hand of power of attorney whether a company or individual.

GENERAL CONDITIONS OF CONTRACT

01. Definitions & Interpretations

In construing these conditions, the Specifications, Bill of quantities and Contract Agreement etc. the following words shall have the meaning herein assigned to them except where the subject or context otherwise requires.

01a "Employer" / "Owner" means - **Bank of Baroda, Regional Manager (AGM), Regional Office, P&E Dept., 4th Floor, Millenium Plaza, Nr. Upasana Circle, Wadhwan, Surendranagar - 363 002.**, and includes the Employer's representatives, successors and assigns.

01b "Architect" means project Architect

01c "Engineer" means "Bank's Engineer" or their authority's nominees and representatives or such other firm / persons, as shall be nominated by the Employer.

CONTRACTOR shall mean: -

In the case of a Partnership firm:- _____ and _____ trading as partners in the name and style of _____ & having a place of business at _____ and shall include the partners for the time being of the said firm and the legal representatives of a deceased partner.

In the case of individual Contractor:- Shri _____ trading in the name and style of _____ and shall include his heirs, successors and legal successors and legal representatives.

In the case of Company:- _____ a company incorporated under _____ 20____ and having its registered office at _____ and office at _____ and shall include its successors and assignee.

"Site" shall mean the site of the contract works including any building and erections thereon and any other land (inclusively) as aforesaid allotted by the Employer for the Contractor's use.

"Contract" shall mean the following documents, all duly signed, collective in that order of precedence.

- a. Articles of Agreement
- b. Letter of acceptance of tender / award of work
- c. Special Conditions of Contract
- d. General conditions of contract including clarifications / conditions accepted after the Pre-bid Meeting.
- e. Drawings
- f. Specifications
- g. Bill of Quantities

"Notice in writing" or "written notice" shall mean a notice in written, typed or printed characters sent (unless delivered personally or otherwise proved to have been received) by registered post to the last known private or business address or registered office of the addressee and shall be deemed to have been received when in the ordinary course of post it would have been delivered.

"Act of Insolvency" shall mean any Act of Insolvency as defined by the Presidency Towns insolvency Act, or the Provincial Insolvency Act or any Act amending such original.

"Net Prices" : If in arriving at the contract amount, the Contractor shall have added to or deducted from the total amount of the items in the Tender any sum, either as a percentage or other wise, then the net price of any item in the tender shall be the sum arrived at by adding to or deducting from the actual figure appearing in the Tender as the price of that item and similar percentage or proportionate sum provided always that in determining the percentage or proportion of the sum so added or deducted by the Contractor, the total amount of any Prime Cost items and provisional sums of money shall be deducted from the total amount of the tender. The expression "net rates" or "net prices" when used with reference to the contract or accounts shall be held to mean rates or prices so arrived at.

"Works" means the permanent works described in the "Scope of Work" and / or to be executed in accordance with the Contract and includes materials, apparatus, equipment, temporary supports, fittings, and things of all kinds to be provided, the obligations of the Contractor hereunder and work to be done by the Contractor under the contract.

"Drawings" means the drawings prepared by the Architects and issued by the Engineer and referred to in the Specifications and any modification of such drawings and such other drawings as may be issued by the Engineer from time to time.

Bidders Signature with Stamp and date

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"Bill of Quantities" means the Schedule and Quantities of items, materials & rates, summaries, etc. as finally accepted.

"Specification" means the specifications given in these documents including relevant Indian standard specification where so required and where such a specification is not available, the specification approved by the Architect.

"Temporary Works" means all temporary works of every kind required in or about the execution, completion or maintenance of the works.

"Materials" means the materials, apparatus, equipments, fittings, fixtures and all such other material, which are incorporated in the 'work'.

"Virtual Completion of the Works" means the completion of the whole of the works substantially in all respects as evidenced by issuance of a Certificate of Virtual Completion by the Engineer in pursuance of above Clause of the General Conditions of Contract.

"Period of Maintenance / Defect Liability Period" shall mean the period of 365 days (Three hundred sixty five) calculated from the date of virtual completion of the works as certified by the Engineer.

"Urgent Works" means any urgent works, which in the opinion of the Engineer / Employer becomes necessary at the time of execution and / or during the progress of work to obviate any risk of accident or failure or to obviate any risk of damage to the structure or services or required to accelerate the progress of work for which becomes necessary for safety and security or for any other reason, the Engineer / Employer may find it necessary.

"Market Rate" means the rate as decided by the Engineer / Employer on the basis of cost of materials at site inclusive of any tax, duty, octroi etc. at the time of execution of work.

"Approved" means approved in writing; "Approval" means approval in writing.

"Month" means calendar month.

"Week" means seven consecutive calendar days.

"Day" means a calendar day beginning and ending at 00 Hours and 24 hours respectively,

"Contract Value" means the total value of the tender as accepted by the Employer.

Interpretations / Marginal Note / Heading / Catch Lines.

The Marginal Notes, Headings and in the catch lines hereto and in the annexure hereto are meant only for convenience of reference and shall not in any way be taken into account in the interpretation of these presents and the annexure hereto. The Contractor will have to carry out and complete the said work in every respect in accordance with this contract.

Words imparting the singular only also include the plural and vice versa where the context requires.

02. Language(s)

The language in which the Contract documents shall be drawn up shall be English only.

03. Errors, Omissions and Discrepancies

3a In case of errors, omissions and / or disagreement between written and scaled dimensions on the drawings or between the drawings and specifications etc., the following order of precedence shall apply:

3a1 Between scaled and written dimension (or description) on a drawing, the latter shall be adopted.

3a2 Between the written or shown description or dimensions in the drawings and the corresponding one in the specification the former shall be taken as correct.

3a3 Between the written description of the item in the specifications & descriptions in the Bill of Quantities of the same item, the former shall be adopted.

3a4 In case of difference between the rates written in figures and words, the rate in words shall prevail.

3a5 Between the duplicate / subsequent copies of the tender and original tender, the original tender shall be taken as correct.

3a6 In all cases of omissions and / or doubts or discrepancies in any of the items or specifications, a reference shall be made to the Architect whose elucidation; elaboration or decision shall be considered as authentic and binding.

04. Scope of Contract

The Contract comprises the construction, completion and maintenance of the works and except in so far as the Contract otherwise stipulates the provision of all labour, materials, constructional plant,

Bidders Signature with Stamp and date

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machinery temporary works and everything whether of a temporary or permanent nature required in and for such construction, completion and maintenance so far as necessary for providing the same as specified in or reasonably to be inferred from the Contract.

05a Letter of Acceptance / Award

Before signing of the Contract, the Employer shall issue by registered post or by otherwise depositing at the registered office of the Contractor, Letter of Acceptance / Award to enter into a Contract with the Contractor for the execution of the works in accordance with the contract. Until a formal contract agreement is prepared and executed, the tender documents i.e. Volume I, II, III & set of drawings together with the relevant correspondence exchanged from receipt of the tender to acceptance and together with the Employer's letter of Acceptance / Award shall constitute a binding contract between the parties.

05b Contract Agreement

On receipt of intimation from the Employer of the acceptance of his / their tender, the successful tenderer shall be bound to implement the contract and within seven days thereof, the successful tenderer shall sign an agreement in accordance with the draft agreement.

06. Custody of Drawings & Specifications

The Contract shall be executed in quadruplicate and the Employer, the Architect, the Engineer and the Contractor shall be entitled to one executed copy each for their use. The Contractor on the signing hereof shall be furnished by the Engineer free of cost two copies of all tender Drawings and all further Drawings issued during the progress of the works. Any further copies of such Drawings required by the Contractor shall be obtained by him from the Architect on payment of necessary charges to be fixed by the Architect. The Contractor shall keep one copy of all Drawings at the works site and the Employer / Architect / Engineer shall at all reasonable time have access to the same. Before the issue of the final certificate to the Contractor, he shall forthwith return to the Engineer all Drawings and Specifications.

07. Disruption of Progress

The Contractor shall give adequate but not less than 3 weeks time written notice to the Engineer whenever planning or progress of the Works is likely to be delayed or disrupted unless any further drawing or order, including a direction, instruction or approval, is required to be issued by the Engineer. The notice shall include details of the drawing or order required explaining why and by when it is required and of any delay or disruption likely to be suffered if it is late.

08. Further Drawings and Instructions

The Contractor shall carry out and complete the said work in every respect in accordance with this Contract and with the directions of and to the satisfaction of the Engineer. The Architect / Engineer may in his absolute discretion and from time to time issue further drawings and / or written instructions, details, directions and explanations which are hereafter collectively referred to as "Engineer's / Architect's Instructions" in regard to:-

08a Any discrepancy in the Drawings or between the Bill of Quantities and / or Drawings and / or Specification. BOQ will supersede drawings in case of discrepancy.

08b Removal from the site of any material brought by the Contractor which is rejected by PMC.

08c Removal and / or re-execution of any works executed by the Contractor if found not as per specifications / BOQ.

08d The dismissal from the works of any persons employed thereupon.

08e The opening up for inspection of any work covered up.

08f The amending and making good of any defects under Clause 30 hereof.

The Contractor shall forthwith comply with and duly execute any work comprised such Engineer's / Architect's instructions provided always that verbal instructions, directions and explanations given to the Contractor or his representative upon the works by the Engineer shall, if involving a variation, be confirmed in writing by the Contractor within seven days, and if not dissented from in writing within a further seven days by the Engineer, such shall be deemed to be Engineer's / Architect's instructions within the scope of the Contract.

09. VOID

10. Contractor's General Responsibilities

The Contractor shall provide at his cost everything necessary for the proper execution of the works according to the intent and meaning of the Drawings, Bill of Quantities and Specifications taken

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together with whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred there from, and if the Contractor finds any discrepancy in the Drawings or between the Drawings, Bill of Quantities and Specifications, he shall immediately and in writing refer the same to the Engineer who shall decide which is to be followed after consultation with Architect.

The successful tenderer is bound to carry out any items of work necessary for the completion of the job even though such items are not included in the Bill of Quantities and rates. Instructions in respect of such additional items and their quantities will be issued in writing by the Engineer with the prior consent in writing of the Employer.

The Contractor must co-operate with the other contractors appointed by the Employer so that the work shall proceed smoothly to the satisfaction of the Engineer.

The Contractor must bear in mind that all the work shall be carried out strictly in accordance with the Specifications as given in these documents and also in compliance of the requirements of the local public authorities and to the requirements / satisfaction / direction of the Engineer and no deviation on any account will be permitted.

The Contractor shall have to use materials from the makes / manufacturers specified in the list of materials of approved brand and / or manufacture contained in contract documents and as approved by Employer / Architect.

11. **Safety of Site Operations**

The Contractor shall take full responsibility for the safety, stability and adequacy of all site operations and methods of construction including all temporary works, provided that the Contractor shall not be responsible, except as may be expressly provided in the Contract, for the design or specification of the permanent works. The contractor shall maintain safety as per Standard Industrial Safety Code or any other Code approved by the Engineer.

12. **Watching & Lighting**

The Contractor shall in connection with the Works provide and maintain at his own cost adequate lights, guards, fencing, warning signs and watch & ward staff when and where necessary or as directed by the Engineer or as directed by duly constituted authority for the protection of the works or for the safety and convenience of the public or pilferage of materials from site.

13. **Care of Works**

From the commencement to the certified completion of the whole of Works, the contractor shall take full responsibility for the care thereof and of all Temporary Works and in case any damage loss or injury shall happen to the works or to any part thereof or to any Temporary Works from any cause whatsoever the Contractor shall at his own cost repair and make good the same so that on completion, the works shall be in good order and condition and in conformity to every respect with the requirements of the Contract and the Engineer's / Architect's instructions. The Contractor shall also be liable for any damage to the Works occasioned by him including his subcontractors in the course of any operations carried out by him for the purpose of completing any outstanding work and complying with his obligations under Clause 32 hereof. The Contractor shall indemnify the Employer from all risks on this account.

14a. **Contractor's Senior Representative for Execution & Coordination of Works**

The Contractor shall have on site at all times during working hours throughout the course of the Contract at least one competent senior representative who shall be empowered to make decisions binding on the Contractor in respect of all matters likely to arise in connection with the execution & coordination of the Works at site and shall keep the Engineer and the Employer informed at all times about the name and designation of such representative. Contractor's Senior Representative shall have the power to take joint measurement and sign the measurement books / bills.

Any directions, explanations, instructions or notices given by the Engineer to such representative shall be held to be given to the Contractor.

14b **Contractor's Employees**

The Contractor shall provide and employ after approval from the Engineer on the site in connection with the execution, completion and maintenance of the Works all Engineering staff / technical assistants

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as are qualified, skilled and experienced in their respective trades, foremen and leading hands as are competent to give proper supervision, ensuring quality & output to the work they are required to supervise, and also such skilled, semi-skilled and unskilled labour as are necessary for the proper and timely execution, completion and maintenance of the works.

14c Removal of Contractor's Employees

The Contractor shall on the direction of the Engineer immediately dismiss from the works any person employed thereon by him who may, in the opinion of the Engineer, be incompetent or misconduct himself and such person shall not be again employed on the works without the permission of the Engineer.

14d Unauthorized Persons

No unauthorized persons are to be allowed on the site. The Contractor shall instruct all such persons to keep out and shall take steps to prevent trespassing.

15. Compliance with Statutes, Regulations, Etc.

The Contractor shall conform to the provisions of any Act of the legislature relating to the works, and to the regulations and bye-laws of any authority, and of any water, electric supply and other companies and / or authorities with whose systems the structure is proposed to be connected, and shall, before making any variations from the Drawings or Specifications that may be necessitated by so regulations, give to the Engineer written notice, specifying the variation proposed to be made and the reason for making it and apply for instructions thereon. In case, the Contractor shall not within ten days of submission of such notice, receive such instructions, he shall proceed with the work conforming to the provisions, regulations, or bye-laws in question, and any variation so necessitated shall be dealt with under Clause 28 thereof.

The Contractor shall bring to the attention of the Engineer all notices required for execution by the said Acts, regulations or bye-laws to be given to any authority and pay to such authority, or to any public office all fees that may be properly chargeable in respect of the works, and lodge the receipts with the Engineer for reimbursement at actual.

16. Setting Out

The Contractor shall set out the works and shall be responsible for the true and perfect setting out of the same and for the correctness of the positions, levels, dimensions, and alignment of all parts thereof. If at any time any error in this respect shall appear during the progress of the works or within the defects liability period the Contractor shall, if so required, at his own expense rectify such error to the satisfaction of the Engineer.

17a Quality of Materials & Workmanship & Test

All materials and workmanship shall be the best of the respective kinds described in the Contract and in accordance with the Engineer's / Architect's instructions and shall be subjected from time to time to such tests as the Engineer may direct at the place of manufacture or fabrication or on the Site or at an approved testing laboratory.

The Contractor shall upon the instruction of the Engineer / Engineer's / Architect's Representative furnish him with documentation to prove that the materials & goods comply with the requirements of contract and for requirement stated above. The Engineer may issue instruction in regard to removal of material from site or any work, if these are not in accordance with the Contract. The Contractor shall provide such assistance instruments, machinery, labour and materials as are normally required for examining, measuring, sampling and testing any material or part of work before incorporation in the works for testing as may be selected and required by the Engineer / Engineer's / Architect's Representative.

17b Samples

All samples of adequate numbers, sizes, shades & pattern as per specification shall be supplied by the Contractor without any extra charge. Apart from adhering to any special provision made in the

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specifications regarding submission of samples the contractor shall within 7 days of his receipt of Letter of Acceptance, provide to the Architect samples along with the detailed literature of all materials he proposes to use in the work irrespective of the fact that a specific make / material might have been stipulated. If certain items proposed to be used are of such nature that samples cannot be presented or prepared at the site, detailed literature / test certificate of the same shall be provided to the satisfaction of the Architect / Engineer. Before submitting the samples / literature, the contractor shall satisfy himself that the material / equipment for which he is submitting the samples / literature meet with the requirement of the specification. The Architect / Engineer shall check the samples and give his comments and / or approval to the same. Only when the samples are approved in writing by the Architect / Engineer, the contractor shall proceed with the procurement and installation of the particular material / equipment. The approved samples shall be signed by the Architect / Engineer for identification and shall be kept on record at site office until the completion and acceptance of the work and shall be available at the site for inspection / comparison at any time. The contractor shall keep with him a duplicate of such samples to enable him to process the matter.

For items of work where the samples are to be made at the site, the same procedure shall be followed. All such samples shall be prepared at a place where it can be left undisturbed until the completion of the project.

The Architect / Engineer shall communicate their comments / approval to the Contractor to the samples at his earliest convenience. Any delay that might occur in approving of the samples for reasons of its not meeting with the specifications or other discrepancies, inadequacy in furnishing samples of best qualities from various manufacturers and such other aspects causing delay on the approval of the materials / equipments, etc. shall be to the account of the contractor. In this respect the decision of the Engineer shall be final.

On delivery of the supplies of materials / equipment for permanent works at the site, the contractor shall specifically arrange to get the supply inspected by the Engineer and compared with the approved sample and his specific approval obtained before using the same in the work.

17c **Cost of Tests**

The cost of making any test shall be borne by the Contractor if such test is intended by or provided for in the Specification or Bill of Quantities.

17d **Costs of Tests not provided for, etc.**

If any test is ordered by the Engineer which is either

- (a) not so intended by or provided for or
- (b) (in the cases above mentioned) is not so particularized, or

(c) though so intended or provided for but ordered by the Engineer to be carried out by an independent person at any place other than the site or the place of manufacture of fabrication of the materials tested or any Government / approved Laboratory, then the cost of such test shall be borne by the Contractor.

18. **Absence of Specification**

If the specifications do not contain particulars of materials and works which are obviously necessary for the proper completion of the works, and the intention to include, which is inferred, all such materials and works shall be supplied and executed by the Contractor without extra charge. If the Contractor requires additional information, he shall, in pursuance of Clause 7.0 hereof, so request in writing well in advance to commencement of the particular work to the Engineer who will issue such detailed information as necessary within a reasonable time.

19. **Obtaining Information Related to Execution of Work**

No claim by the contractor for additional payment will be entertained which is consequent upon failure on his part to obtain correct information as to any matter affecting the execution of the works, nor will any misunderstandings or the obtaining of incorrect information or the failure to obtain correct information relieve him from any risks or from the entire responsibility for the fulfillment of the contract.

20. **Contractor's Superintendence**

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The Contractor shall give all necessary personal superintendence during the execution of the works, and as long, thereafter, as the Engineer may consider necessary until the expiry of the "Defects Liability Period" stated hereto.

21. Access for Inspection

The Employer, the Architect, the Engineer and their respective representatives shall at all reasonable times have free access to the work and / or to the workshops, factories or other places where materials are lying or from which they are being obtained and the Contractor shall give to the Employer, the Architect, the Engineer and their representatives every facility necessary for checking measurements, inspection and examination and test of the materials and workmanship. No person not authorized by the Employer or the Architect or the Engineer except the representatives of public authorities shall be allowed on the works at any time.

22a. Examination of Work Before Covering Up

No work shall be covered up or put out of view without the approval of the Engineer and the Contractor shall afford full opportunity for the Engineer to examine and measure any work, which is about to be covered up or put out of view and to examine foundations before permanent work is Placed thereon. The Contractor shall give due notice to the Engineer of any such work or foundations is or are ready or about to be ready for examination and the Engineer shall without unreasonable delay, unless he considers it unnecessary and advises the Contractor accordingly, attend for the purpose of examining and measuring such work or for examining such foundations.

22b Uncovering and making openings

The Contractor shall uncover any part or parts of the Works or make openings in or through the same as the Engineer may from time to time direct and shall reinstate and make good such part or parts to the satisfaction of the Engineer. If any such part or parts have been covered up or put out of view after compliance with the requirements of sub-clause (i) of this Clause and are found to be executed in accordance with the contract the expenses of uncovering, making openings in or through reinstating and making good the same shall be borne by the Employer but in any other case all such expenses shall be borne by the Contractor and shall be recoverable from him by the Employer or may be deducted by the Employer from any monies due or which may become due to the Contractor.

23. Assignment

The whole of the works included in the contract shall be executed by the Contractor and the Contractor shall not directly or indirectly transfer, assign or sublet the contract or any part / share thereof or any interest therein without the prior written consent of the Employer / Architect and no undertaking shall relieve the Contractor from the full and entire responsibility of the contract or from active superintendence of the works during their progress.

24. Quantities

24a The Bill of Quantities (BOQ), unless otherwise stated shall be deemed to have been prepared in accordance with the Indian Standard Method of Measurement and quantities in B.O.Q. are to be considered as estimated and not accurate. The rates quoted shall remain valid for variation of quantity against each individual items to any extent subject to maximum variation of the contract value by $\pm 25\%$. The entire amount paid under Clause 27, 28 hereof and 29 of SCC as well as amounts of prime costs and provisional sums, if any, shall be excluded.

24b Variation Exceeding 25%: The items of work executed in relation to variation exceeding 25% of contract value shall be paid on the basis of provision of above Clause here of.

25. Works to be Measured

The Engineer may from time to time intimate to the Contractor that he requires the works to be measured, and the Contractor shall forthwith attend or send a qualified Representative to assist the Engineer in taking such measurements and calculations and to furnish all particulars or to give all assistance required by any of them.

Should the Contractor not attend or neglect or omit to send such Representative, then the measurement taken by the Engineer or a person approved by him shall be taken to be correct measurements of the works. Such measurements shall be taken in accordance with the Mode of Measurements detailed in the Specifications.

The Engineer shall take joint measurements with the contractor and the measurements shall be entered in the measurement book / sheet by the Engineer's / Architect's representative.

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The Contractor or his Representative may at the time of measurement take such notes and measurements as he may require.

All authorized extra works, omissions and all variations made without the Engineer's / Architect's knowledge, but subsequently sanctioned by him in writing (with the prior approval in writing of the Employer) shall be included in such measurements.

26. Claims

The Contractor shall send to the Engineer once in every month an account giving particulars as complete and fully detailed as required of all claims for any additional expenses claims, to which the Contractor may consider himself entitled and of all extra or additional / substituted work ordered by the Engineer which he has executed during the preceding month subject of provisions under relevant clauses of contract hereof, and no claim for payment for any such work will be considered which has not been included in such particulars. Provided always that the Engineer shall be entitled to authorize payment to be made for any such work notwithstanding the Contractor's failure to comply with this condition, if the Contractor has, at the earliest practicable opportunity notified the Engineer in writing that he intends to make a claim for such work and thereafter send complete and detailed particulars of the claim to the Engineer as directed by the Engineer but not later than 10 days from the date of notification of his claim.

27. Variations

No alteration, omission or variation ordered in writing by the Engineer shall vitiate this contract. In case the Employer / Engineer thinks proper at any time during the progress of the works to make any alterations in, or additions to or omissions from, the works or any alteration in the kind or quality of the materials to be used therein, the Engineer shall give notice thereof in writing to the Contractor or shall confirm in writing within seven days of giving any such oral instructions. The Contractor shall alter, add to, or omit from, as the case may be, in accordance with such notice, but the Contractor shall not do any work extra to or make any alterations or additions to or omissions from the works or any deviation from any of the provisions of the Contract, stipulations, Specification or Contract Drawings without the previous consent in writing of the Engineer and the value of such extras, alterations, additions or omissions shall in all cases be determined by the Engineer in accordance with the provisions of Clause 28 hereof, and the same shall be added to or deducted from the Contract value, as the case may be.

28. Valuation of Variations

No claim for an extra shall be allowed unless it shall have been executed under authority of the Engineer with the concurrence of the Employer as herein mentioned. Any such extra is herein referred to as authorized extra and shall be made in accordance with the following provisions.

28a The net rates or prices in the contract shall determine the valuation of the extra work where such extra work is of similar character and executed under similar conditions as the work priced herein.

28b Rates for all items, wherever possible, should be derived out of the rates given in the Priced Bill of Quantities.

28c The net prices of the original tender shall determine the value of the items omitted, provided if omissions do not vary the conditions under which any remaining items of works are carried out, otherwise the prices for the same shall be valued under sub-clause (c) hereof.

28d Where the extra works are not of similar character and / or executed under similar conditions as aforesaid or where the omissions vary the conditions under which any remaining items or works are carried out, then the contractor shall within 7 days of the date of receipt of order to carry out the work, inform the Engineer of the rate which he intends to charge for such items of work, supported by analysis of the rate or rates claimed and the Engineer shall fix such rate or prices as in the circumstances in his opinion are reasonable and proper, based on the market rate.

28e Where extra work cannot be properly measured or valued, the Contractor shall be allowed day work prices at the net rates stated in the tender of the Priced Bill of Quantities or, if not so stated, then in accordance with the local day work rates and wages for the district; provided that in either case, vouchers specifying the daily time (and if required by the Engineer, the workman's names) and materials employed be delivered for verification to the Engineer at or before the end of the week following that in which the work has been executed.

28f It is further clarified that for all such authorized extra items where rates cannot be derived from tender, the Contractors shall submit rates supported by rate analysis worked on the "market rate basis",

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for material, labour, hire / running charges of equipment and wastages etc. plus 15% towards establishment charges, contractor's overheads and profit. Such items shall not be eligible for escalation.

The measurement and valuation in respect of the Contract shall be completed within the "Period of Final Measurement" stated in the Appendix or if not stated then within six months of the completion of the Contract works as defined in Clause 39 hereof.

29. Work is to be carried out to the Satisfaction of Architect / Engineer

The Contractor shall carry out all the works strictly in accordance with Drawings, detailed Specifications and instructions of the Architect / Engineer. If in the opinion of the Architect changes have to be made in the works, the Contractor shall carry out the same, and payment, if any, arising out of these shall be made as per the terms of the contract.

30a. Removal of Improper Work & Materials

The Engineer shall, during the progress of the works, have power to order in writing from time to time the removal from the works within such reasonable time or times as may be specified in the order, of any materials which in the opinion of the Engineer are not in accordance with the Specifications or the instructions of the Engineer, the substitution of proper materials, and the removal and proper re-execution of any work executed with materials or workmanship not in accordance with the Drawings and Specifications or instructions, and the Contractor shall forthwith carry out such order at his own cost. In case of default on the part of the Contractor to carry out such order, the Employer shall have the power to employ and pay other persons to carry out the same, and all expenses consequent thereon, or incidental thereto, as certified by the Engineer shall be borne by the Contractor, or may be deducted by the Employer from any moneys due, or that may become due, to the Contractor.

30b Default of Contractor in Compliance

If the Contractor after receipt of written notice from the Engineer requiring compliance within ten days fails to comply with such further drawings and / or Engineer's / Architect's instructions the Employer may employ and pay other persons to execute any such work whatsoever that may be necessary to give effect thereto, and all costs incurred in connection therewith shall be recoverable from the Contractor by the Employer on the Certificate of the Engineer as a debt or may be deducted by him from any moneys due to the Contractor.

30c Inspection & Testing During Manufacture

The Engineer shall be entitled during manufacture to inspect, examine and test on the Contractor's premises during working hours the materials and workmanship and check the progress of manufacture of all fabrication materials / items to be supplied under the Contract, and if part of the said materials / items are being manufactured on other premises the Contractor shall obtain for the Engineer permission to inspect, examine and test as if the said Plant were manufacturing on the Contractor's premises. Such inspection, examination or testing if made shall not relieve the Contractor from any obligation under the Contract.

30d Dates for Inspection & Testing

The Contractor shall agree with the Engineer the date on and the place at which any plant / works will be ready for testing as provided in the Contract and unless the Engineer shall attend at the place so named on the date agreed the Contractor may proceed with the tests, which shall be deemed to have been made in the Engineer's / Architect's presence, and shall forthwith forward to the Engineer duly certified copies of the test readings. The Engineer shall give the Contractor 24 hours notice in writing of his intention to attend the tests. All costs of testing shall be borne by the contractor. All outstation travel expenses shall be borne by the owner but in case re-inspections are required as per clause No. 30 (ix) the travel expenses shall be on contractor's account.

30e Facilities for Testing at Manufacturer's Works

Where the Contract provides for tests on the premises of the Contractor or of any sub-contractor the Contractor shall provide such assistance, labour, materials, electricity, fuel, stores, apparatus and instruments as may be requisite and as may be reasonably demanded to carry out such tests efficiently.

30f Certificate of Testing

As and when fabricated materials shall pass the tests referred in this, the Engineer shall furnish to the Contractor a certificate in writing to that effect.

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30g **Rejection**

If as a result of such inspection, examination or test of the works (other than a Test on Completion under Clause 17.0) the Engineer shall decide that such material is defective or not in accordance with the Contract he shall notify the Contractor accordingly stating in writing his objection and reasons therefore. The Contractor shall with all speed make good the defect or ensures that the material complies with the Contract. Thereafter, if required by the Engineer, the tests shall be repeated under the same terms and conditions save that all reasonable expenses to which the Employer may be put by the repetition of the tests shall be deducted from the Contract Sum.

30h **Delivery of Materials & Equipment**

Unless the Engineer shall otherwise direct, no material shall be delivered to site until the Engineer shall have issued, in respect of such material, a certificate under Clause 30 (vi) (Certificate of Testing). Likewise Fabricated Materials or Contractor's Equipment shall be delivered to Site only upon an authorization in writing applied for and obtained by the Contractor from the Engineer.

The Contractor shall be responsible for the reception on site of all Materials and Contractor's Equipment delivered for the purposes of the Contract.

30i **Inspection & Testing and Re-inspection & Retesting**

All deficiencies revealed by testing and inspection shall be rectified by the Contractor at his own expense and to the satisfaction and approval of the Engineer. Rectified components shall be subject to retesting and re-inspection.

30j **Inspection Reports**

The Contractor shall provide the Engineer with five copies of reports of all inspections and tests.

31. **Virtual Completion Certificate**

The Engineer shall issue the virtual completion certificate when in his opinion, the works have been substantially completed in all respects and necessary approvals are obtained by the Contractor. The Defects Liability Period shall commence from the date of virtual completion as certified by the Engineer.

32. **Defect Liability Period**

Any defect or other faults which may appear within the "Defects Liability Period" stated in the Appendix hereto or, if none stated, then within 365 days after the date of the virtual completion of the works as certified by the Engineer, arising in the opinion of the Engineer from materials or workmanship not in accordance with the contract, shall upon the direction in writing of the Engineer, and within such reasonable time as shall be specified therein, be amended and made good by the Contractor, at his own cost and in case of default the Employer may employ and pay other persons to amend and make good such defects or other faults, and all damages, loss and expenses consequent thereon or incidental thereto shall be made good and borne by the

Contractor and such damage, loss and expenses shall be recoverable from him by the Employer or may be deducted by the Employer, upon the Engineer's / Architect's Certificate in writing, from any money due or that may become due to the Contractor, or the Employer may in lieu of such amending and making good by the Contractor deduct from any monies due to the Contractor, a sum, to be determined by the Engineer equivalent to the cost of amending such work and in the event of the amount retained under Clause 46 hereof being insufficient, recover the balance from the Contractor, together with any expenses the Employer may have incurred in connection therewith. Should any defective work have been done or material supplied by any Sub-Contractor employed on the works who has been nominated or approved by the Engineer, the Contractor shall be liable to make good in the same manner as if such work or material had been done or supplied by the Contractor and been subject to the provisions of this Clause and Clause 29 hereof. The Contractor shall remain liable under the provisions of this Clause notwithstanding the signing of any certificate or the passing of any accounts, by the Engineer. The Contractor will not be responsible for defects arising out of fair wear & tear & damage caused by Employer's personnel during the use of the building after being occupied.

33. **Approval Only by No Dues Certificate**

33a **Final Completion Certificate**

On successful completion of entire works covered by the Contract to the full satisfaction of Employer / Engineer, the Contractor shall ensure that the following works have been completed to the satisfaction of Engineer : (a) clear the site of all scaffolding, wiring, pipes, surplus materials, Contractor's labour, equipment and machinery (b) demolish, dismantle and remove all Contractor's site offices and other temporary works, structures and constructions and other items and things whatsoever brought upon or

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erected at the site or any land allotted to the Contractor by the Owner and not incorporated in the permanent works (c) remove all rubbish, debris etc. from the site and the land allotted to Contractor and shall clear, level and dress, compact the site as required and said land to the satisfaction of the Engineer (d) shall put the Owner in undisputed custody and possession of the site and all land allotted by the Owner to the Contractor (e) All defects / imperfections have been attended & rectified to full satisfaction of the Engineer during the Defect Liability Period. Unless the Contractor shall have fulfilled the provisions of the clause, the works shall not be deemed to have been completed.

Upon the satisfactory fulfillment by Contractor as stated above, the Contractor shall be entitled to apply to the Engineer for a Final Completion Certificate in respect of the entire work.

If the Engineer is satisfied of the completion of the work relative to which the Completion Certificate has been sought, the Engineer shall within 14 (fourteen) days of the receipt of the application for Completion Certificate, issue a Completion Certificate in respect of the works for which the Completion Certificate has been applied.

This issuance of a Completion Certificate shall be without prejudice to the Employer's rights and Contractor's liabilities under the Contract, including the Contractor's liability for the Defect Liability Period nor shall the issuance of a Completion Certificate in respect of the works or work at any site be construed as a waiver of any right or claim of the Employer against the Contractor in respect of work or the works at the site and in respect of which the Final Completion Certificate has been issued.

33b **No Dues Certificate**

The Contract shall remain valid and shall remain incomplete until no dues Certificate shall have been signed by the Engineer and delivered to the Employer with a copy to the contractor. Such a certificate shall be given by the engineer within 30 days of completion of defects liability period (the last period to be considered if different periods to be considered if different parts of the work) or within 30 days from the date of payment of final bill whichever is later.

34a **Prime Cost Items**

The material(s) required for execution of any item for which a sum has been provided as a prime cost price in the tender, shall be procured by the contractor on Employer's instruction from an agency nominated by the Employer. Every sum in the bill of quantities, which contains either as a whole or part the amount as prime cost price of the materials shall be varied by substitution of the actual cost of the materials.

No variation shall be made in respect to the percentage quoted for labour and to cover for overheads & profits on account of variation in the prices, as above.

34b **Provisional Sums**

Every provisional sum other than Prime Cost items under sub-clause (i) of this clause set out in the Bill of Quantities whether for work to be executed by the Contractor which has not been specified in detail when the Contract is entered into or for work to be executed by a nominated Sub-Contractor as hereinafter defined together with the charges and profits, if any, which the Contractor shall have added to such sums shall be deducted from the Contract Value and in lieu thereof shall be added to the Contract Value.

34ba Where work to which the provisional sum relates has been ordered by the Engineer and executed by the Contractor the value of the work so executed valued in accordance with Clause 37c hereof and,

34bb Various items together with lump sum amounts for each of them have been indicated under a separate heading of Provisional Sums, in the B.O.Q. These items are such for which details have not been finalized when the contract is entered into. These items will be got executed either through the Contractor or through a nominated Sub-Contractor, entirely at the discretion of the Employer and shall be paid on the basis of actual cost of each item plus a percentage rate to be quoted by the Contractor to cover his efforts towards co-ordination / assistance including his overheads and profits. No claim shall be entertained if any or all items under the heading of provisional sums are deleted by the Employer from the scope of work to be executed by the Contractor. No further escalation shall be payable on these items. The amounts for these items shall not be considered for variation in contract value as per Clause 24 of GCC.

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34bc Use of Provisional Items

All sums set out in the Bill of Quantities, which shall be stated to be Provisional shall be used only at the direction & sole discretion of the Employer / Engineer and if not used either wholly or in part, unused amount shall be deducted from the Contract Value. The provisional sum as well as payments made to contractor for assistance / co-ordination / carrying out of works therein shall not be considered for deciding variation in contract value as per Clause 24 of GCC.

34c Production of Vouchers, Etc.

The Contractor shall when required by the Employer / Engineer produce all quotations, invoices, vouchers and accounts or receipts in connection with expenditure in respect of Provisional sums or Prime Cost items.

34d Nominated Sub-contractors / Objection to Nomination

All Specialists, Merchants, Tradesman and others executing any work of supplying and fixing any goods for which prime cost items or provisional sums are included in the Bill of Quantities and / or Specification who may be nominated or selected by the Employer / Architect are hereby declared to be Sub-Contractors employed by the Contractor and are herein referred to as nominated Sub- Contractors.

34da No nominated Sub-Contractor shall be employed on or in connection with the works against whom the Contractor shall make reasonable objection or (save where the Engineer and Contractor shall otherwise agree) who will not enter into a contract providing:

34db That the nominated Sub-Contractor shall indemnify the Contractor against the same obligations in respect of the Sub-Contract as the Contractor is under in respect of this contract.

34dc That the nominated Sub-Contractor shall indemnify the Contractor against claims in respect of any negligence by the Sub-Contractor, his servants or agents or any misuse by him or them of any scaffolding or other plant, the property of the Contractor or under any Workmen's Compensation Act in force.

34e Payment shall be made to the nominated Sub-Contractor within fourteen days of his receipt of payment from the Employer provided that before any Certificate is issued, the Contractor shall upon request furnish to the Engineer proof that all nominated Sub-Contractor's accounts included in previous certificates have been duly discharged, in default whereof the Employer may pay the same upon a Certificate of the Engineer and deduct the amount thereof from any sums due to the Contractor. The exercise of this power shall not create privity of contract as between Employer and Sub-Contractor.

35. Work by Other Agencies

The Employer / Engineer reserves the right to use premises and any portions of the site for the execution of any work not included in this contract which it may desire to have carried out by other persons simultaneously, and the Contractor shall allow all reasonable facilities for the execution of such work and carry out his work in coordination / cooperation with other agencies, but shall not be required to provide any plant or material for the execution of such work except by special arrangement with the Employer. Such work shall be carried out in such manner as not to impede the progress of the works included in the Contract and the Contractor shall not be responsible for any damage or delay which may happen to or occasioned by such work

36. Insurance Policies

The Contractor shall be responsible for all injury or damage to persons, animals or things and for all damage to property which may arise from any factor / omission on the part of the Contractor or any Sub-Contractor or any nominated Sub-Contractor or any of their employees. The liability under this clause shall cover also, inter-alia any damage to structures, whether immediately adjacent to the works or otherwise, any damage to roads, streets, footpaths, bridges as well as damage caused to the building and other structures and works forming the subject matter of this contract. The Contractor shall also be responsible for any damage caused to the buildings and other structures and works forming the subject matter of this contract due to rain, wind, fire, flood or high tide or other inclemency of weather. The Contractor shall indemnify and keep indemnified the Employer and hold him harmless in respect of all and any loss and expenses arising from any such injury or damage to persons or property as aforesaid and also against any claim made in respect of injury or damage, whether under any statute or otherwise and also in respect of any award or compensation or damage consequent upon such claims.

Bidders Signature with Stamp and date

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The Contractor shall, at his own expense, effect and maintain till issue of the virtual completion certificate under this contract, with an insurance company approved by the Employer, an All Risks Policy (CAR Policy) for Insurance for an amount equal to 125% of Contract value including earthquake risk in the joint names of the employer and the contractor (the name of the former being placed first in the policy) against all risk as per the standard all risk policy for Contractors and deposit such policy or policies with the employer before commencing the works.

The Contractor shall reinstate all damage of every sort mentioned in this clause so as to do delivery of the whole of the works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to property or third parties.

The Contractor shall also indemnify and keep indemnified the Employer against all claims which may be made against the Employer by any person in respect of anything which may arise in respect of the works or in consequence thereof and shall at his own expense, effect and maintain until the virtual completion of the contract, with an Insurance Company approved by the employer a third party insurance policy in the joint names of the Employer and the contractor (name of the former being placed first in the policy) against such risks and deposit such policy or policies before commencement of the works. The minimum limit of the coverage under the policy shall be Rs.5 lacs per person for any one accident or occurrence and Rs.20 lacs in respect of damage to property for any one accident or occurrence. The Contractor shall also indemnify the employer against all claims which may be made upon the Employer, whether under the Workmen's Compensation Act or any other statute in force, during the currency of this contract or at Common Law in respect of any employee of the Contractor or of sub-contractor and shall be at his own expense effect and maintain until the virtual completion of the contract, with an Insurance Company, approved by the Employer, a policy of Insurance against such risks and deposit such policy or policies with the Employer from time to time during the currency of this contract.

In default of the contractor insuring as provided above, the employer may so insure and may deduct the premiums paid from any money due or which may become due to the contractor.

The contractor shall be responsible for any liability which may not be covered by the Insurance Policies referred to above and also for all other damages to any person, animal or defective carrying out of this contract, whatever, may be the reasons due to which the damage shall have been caused.

The contractor shall also indemnify and keep indemnified the Employer against all and any costs, charges or expenses arising out of any claim or proceedings relating to the works and also in respect of any award of damage or compensation arising there from.

Without prejudice to the other rights of the employer against contractors in respect of such default, the employer shall be entitled to deduct from any sums payable to the contractor the amount of any damages, compensation costs, charges & other expenses paid by the employer and which are payable by the contractor under this clause.

The Contractor shall upon settlement by the Insurer of any claim made against the insurer pursuant to a policy taken under this clause, proceed with due diligence to rebuild or repair the works destroyed or damaged. In this event all the monies received from the Insurer in respect of such damage shall be paid to the Contractor and the Contractor shall not be entitled to any further payment in respect of the expenditure incurred for rebuilding or repairing of the materials or goods destroyed or damaged.

The Contractor, in case of re-building or reinstatement after damage shall be entitled to such extension of time for completion as the Engineer may deem fit, but shall, however, not be entitled to reimbursement by the employer of any shortfall or deficiency in the amount finally paid by the insurer in settlement of any claim arising as set out herein.

Without prejudice to his liability under this clause, the contractor shall also cause all nominated sub-contractors to effect, for their respective portions of the works, similar policies of insurance in accordance with the provisions of this clause and shall produce or cause to produce to the employer such policies. The contractor shall not permit a nominated sub-contractor to commence work at the site unless the said insurance policies are submitted. In the event of failure of the sub-contractor to take out such a policy of insurance before commencing the works at the site, the contractor shall be responsible for any claim or damage attributable to the said sub-contractor.

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37. **Commencement of Works**

-07- days from the date of work order or the date of instruction for taking possession of site, whichever is later, the contractor shall begin the works and shall regularly proceed with and complete the same on or before the "Date of Completion" stated in the Appendix subject nevertheless to the provisions for extension of time hereinafter contained.

38a. **Possession of Site**

Save in so far as the Contract may prescribe the extent of portions of the Site of which the Contractor is to be given possession from time to time and the order in which such portions shall be made available to him and subject to any requirement in the Contract as to the order in which the Works shall be executed, the Employer will within 7 day from the Engineer's / Architect's written order to commence the Works give to the Contractor possession of so much of the Site as may be required to enable the Contractor to commence and proceed with the programme referred to in Clause 50 hereof (if any) and otherwise in accordance with such reasonable proposals of the Contractor as he shall, by notice in writing to the Engineer, make & will from time to time as the Works proceed give to the Contractor possession of such further portions of the Site as may be required to enable the Contractor to proceed with the construction of the Works with due dispatch in accordance with the said programme or proposals (as the case may be).

If the Contractor suffers delay or incurs expense from failure on the part of the Employer to give possession in accordance with the terms of this clause the Engineer shall grant an extension of time for the completion of the works without any compensation for delay.

38b **Way leaves, etc.**

The Contractor shall bear all expenses and charges for special or temporary way leaves required by him in connection with access to the Site. The Contractor shall also provide at his own cost any additional accommodation outside the Site required by him for the purpose of the Works.

39. **Time for Completion**

The entire work is to be completed in all respects within the time stated in Appendix to "Form of Tender" or such extended time as may be allowed under clause 40 hereof. Time is the essence of the contract and shall be strictly observed by the contractor.

If required in the contract or as directed by the Engineer, the contractor shall complete certain portion of the work before the completion of the whole of the work. However the completion date for whole of the work shall not change.

40. **Extension of Time for Completion**

If in the opinion of the Engineer the works be delayed for reasons beyond the control of the contractor, the Engineer may make a fair and reasonable extension of time for completion of the contract works.

If the Contractor needs an extension of time for the completion of the work or if the completion of work is likely to be delayed for any reasons beyond the due date of completion stipulated in the contract, the Contractor shall apply to the Employer for extension of time in writing at least 10 days before the expiry of the scheduled time and while applying for extension of time, Contractor shall furnish the reasons in detail and his justification, if any, for the delays. While granting extension, the Engineer shall notify the contractor the period of time which will not qualify for levy of liquidated damages.

For the balance period in excess of original stipulated period and authorized extension of time granted i.e. period not qualifying for levy of liquidated damages, by the Employer, the provision of liquidated damages as stated under Clause 43 will become applicable.

Further, the contract shall remain in force even for the period beyond the due date of completion irrespective whether the extension is granted or not.

41a **Rate of Progress**

The whole of the materials, plant and labour to be provided by the Contractor and the mode, manner and speed of execution and maintenance of the Works are to be of a kind and conducted in a manner to the satisfaction of the Engineer. Should the rate of progress of the Works or any part thereof be at any time be in the opinion of the Engineer too slow to ensure the completion of the whole of the Works by the prescribed time or extended time for completion, the Engineer shall so notify the Contractor in writing and the Contractor shall thereupon take such steps as considered necessary by the Engineer to expedite progress so as to complete the Works by the prescribed time or extended time for completion.

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Such communications from the Engineer neither shall relieve the contractor from fulfilling obligations under the contract nor he will be entitled to raise claims arising out of such directions.

41b Work during Night or on Holidays

Subject to any provision to the contrary contained in the Contract none of the permanent work shall save as herein provided be carried on during the night or on Holidays without the permission in writing of the Engineer, save when the work is unavoidable or absolutely necessary for the saving of life or property or for the safety of the Works in which case the Contractor shall immediately advise the Engineer. Provided always that the provisions of this clause shall not be applicable in the case of any work, which becomes essential to carry out by rotary or double shifts in order to achieve the progress & quality of the part of the works being technically required / continued with the prior approval of the Engineer.

All work at night shall be carried out without unreasonable noise & disturbance and with the approval of the Engineer & in addition that of the local authority, if so applicable. The Contractor shall indemnify the Employer from and against any liability for damages on account of noise or other disturbance created while or in carrying out the work and from and against all claims, demands, proceedings, costs, charges & expenses whatsoever in regard or in relation to such liability.

42. Suspension of Work

The Contractor shall on the written order of the Engineer suspend the progress of the Works or any part thereof for such time or times and in such manner as the Engineer may consider necessary and shall during such suspension properly protect and secure the work so far as is necessary in the opinion of the Engineer. The extra cost including all running wages to be paid on the Site, salaries, depreciation and maintenance of plant, Site on costs and overhead costs of the Contract relating to the works done or incurred by the Contractor in giving effect to the Engineer's / Architect's instructions under this Clause shall, be borne and paid by the Employer unless such suspension is :

42a otherwise provided for in the Contract

OR

42b necessary by reason of inclement weather conditions affecting adversely the safety or quality of the Works.

OR

42c necessary by reason of some default on the part of the contractor

Provided that the Contractor shall not be entitled to recover any such extra cost unless he gives notice in writing of his intention to claim to the Engineer within 28 days of the Engineer's / Architect's order. The Engineer shall settle and determine such extra payment and / or extension of time under relevant Clause hereof to be made to the Contractor in respect of such claim as shall in the opinion of the Engineer be fair and reasonable and the Engineer's / Architect's decision shall be final and binding.

43. Liquidated Damages for Delay

If the Contractor fails to complete the works by the period stated in the Appendix or within any extended time under Clause 40 hereof and the Engineer certifies in writing that in his opinion the same ought to have been reasonably completed by the original completion date or extended completion date, as the case may be, the Contractor shall pay the Employer the sum named in the Appendix as "Liquidated Damages" for the period during which the said works shall so remain incomplete or the Employer may deduct such damages from any monies due to the Contractor.

44a. Default of Contractor

If the Contractor being an individual or a firm commits any "act of insolvency", or shall be adjudged an insolvent or being an Incorporated Company shall have an order for compulsory winding up made against it as pass an effective resolution for winding up voluntarily or subject to the supervision of the Court and the Official Assignee or the Liquidator in such acts of insolvency or winding up, as the case may be, shall be unable within seven days after notice to him requiring him to do so, to show to the reasonable satisfaction of the Engineer that he is able to carry out and fulfill the Contract and to give security therefore, if so required by the Engineer.

OR if the Contractor (when an individual, firm or incorporated Company) shall suffer execution or other process of Court attaching property to be issued against the Contractor.

OR shall suffer any payment under this Contract to be attached by or on behalf of any of the creditors of the Contractor.

OR shall assign or sublet this Contract without the consent in writing of the Employer.

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OR shall charge or encumber this Contract or any payments due or which may become due to the Contractor hereunder.

OR if the Engineer shall certify in writing to the Employer that the Contractor.

44b Has abandoned the Contract, or

44c Has failed to commence the works, or has without any lawful excuse under these conditions suspended the progress of the works for fourteen days after receiving from the Engineer's / Architect's notice to proceed with the work

OR

44d Has failed to proceed with the works with such due diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon,

OR

44e Has failed to remove materials from the site or to pull down and replace work for seven days after receiving from the Engineer written notice that the said materials or work were condemned and rejected by the Engineer under these conditions,

OR

44f Has neglected or failed persistently to observe and perform all or any of the acts, matters or things by this contract to be observed & performed by the Contractor for seven days after written notice shall have been given to the Contractor requiring the Contractor to observe or perform the same.

Then and in any of the said cases the Employer may, notwithstanding any previous waiver, after giving seven days notice in writing to the Contractor, determine the Contract, but without thereby affecting the powers of the Engineer or the obligations and liabilities of the Contractor, the whole of which shall continue in force as fully as if the Contract had not been so determined, and as if the works subsequently executed had been executed by or on behalf of the Contractor. And further, the Employer by his agents or servants may enter upon and take possession of the works and all plants, tools, scaffoldings, sheds, machinery, steam and other power utensils and materials lying upon the premises or the adjoining lands or roads and use the same as his own property or may employ the same by means of his own servants and workmen in carrying on and completing the works or by employing any other Contractor shall not in any way interrupt or do any act, matter or thing to prevent or hinder such other Contractor or other person or persons employed for completing and finishing or using the materials and plant for the works. When the works shall be completed or as soon, thereafter, as convenient the Engineer shall give a notice in writing to the Contractor to remove his surplus materials and plant and should the Contractor fail to do so within a period of fourteen days after receipt thereof by him, the Employer may sell the same by public auction, and give credit to the Contractor for the net amount realized. The Engineer shall, thereafter, ascertain and certify in writing under his hand what (if anything) shall be due or payable to or by the Employer, for the value of the said plant and materials so taken possession of by the Employer and the expense or loss which the Employer shall have been put to in procuring the works to be completed and the amount, if any, owing to the Contractor and the amount which shall be so certified shall thereupon be paid by the Employer to the Contractor or by the Contractor to the Employer, as the case may be, & the Certificate of the Engineer shall be final and conclusive between the parties.

44g **Default of Employer**

If the payment of the amount payable by the Employer under Certificate of the Engineer shall be in arrears and unpaid for thirty days after notice in writing requiring payment of the amount as aforesaid shall have been given by the Contractor to the Employer, or if the Employer interferes with or obstructs the issue of any such Certificate, or if the Employer shall repudiate the Contract, or if the works be stopped for three months under the order of the Engineer or the Employer or by any injunction or other order of any Court of Law, then and in any of the said cases, the Contractor shall be at liberty to determine the Contract by notice in writing to the Employer, through the Engineer, and he shall be entitled to recover from the Employer, payment for all works executed at site. All other expenditure to be borne by the Contractor.

In arriving at the amount of such payment the net rates contained in the Contractor's original Tender shall be followed or where the same may not apply valuation shall be made in accordance with Clause 28 hereof.

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45a **Determination of Contract**

The Employer shall in addition to any other power enabling him to determine the Contract have power to determine the Contract at any time by giving not less than fourteen (14) days notice in writing to the Contractor and on the expiry of such notice the Contractor shall (with the exception of this clause and clause 44 hereof) forthwith determine but without prejudice to the claims of either party in respect of any antecedent breach thereof.

45b **Compliance with Engineer's / Architect's Direction on Determination**

If the Contract shall be determined under the provisions of the clause 45 (i) the Contractor shall with all reasonable dispatch comply with the directions of the Engineer in respect to :

45ba Cancellation of outstanding commitments

45bb Performance of further work required for the protection of work executed.

45bc The removal of Constructional Plant Temporary Works and materials from the Site

45bd Any other matters arising out of the Contract with regard to which the Engineer decides that directions are necessary or expedient.

45c **Payment on Determination**

In the event of the Contract being determined under the provisions of this Clause the sum payable to the Contractor shall be such sum as would have been payable under Clause 47 hereof as if the contract had been determined by the Employer under the provision of Clause 45 hereof and

45ca The reasonable cost of complying with the Engineer's / Architect's directions under sub-clause hereof

45cb Such reasonable sum as may be agreed between the parties or in default of agreement settled by arbitration in respect of the Contractor's overheads including any sums properly and necessarily incurred as the direct result of such determination.

45d The Engineer has a right to ascertain the happening of any contingency, including but not limited to the contingencies listed below, which would vest in the Employer certain powers including, but not limited to, taking possession of the work so far as it has been performed, and to completing the work either by himself or by employing some other Agency, retaining property of the Contractor, such as materials, plant or money already due to the Contractor:

45da Failure of Contractor to proceed with or complete the works in the time or manner stipulated

45db Contractor's bankruptcy

45dc Failure of Contractor to commence the work

45dd Failure of Contractor to regularly proceed with the work for a certain fixed period

45de Failure of Contractor to proceed to the satisfaction of the Employer or the Engineer

45df Failure of Contractor to proceed with the work for any reason independent of prevention by Employer

45dg If in the Engineer's / Architect's opinion, the Contractor is not exercising due diligence and proceeding with such dispatch as will enable the works to be duly completed in time

45dh Failure of Contractor in complying with the orders and directions given by the Engineer

45di Failure of Contractor in complying with the Specification, stipulations, conditions or Drgs.

45dj The Contractor being guilty of any default in the fulfillment of the contract

45dk The Contractor leaves the work unfinished

45dl Failure of Contractor, after due notice, to rectify defective work

45dm The Contractor renouncing materials from site and

45dn Failure of Contractor to maintain the works

46. **Security Deposit / Retention Money**

In addition to the Initial Security Deposit as further security for the due fulfillment of the contract by the Contractor, 8% of the value of the work done will be deducted by the Employer from each payment to be made to the Contractor towards retention money until the retention money amounts to 5% of the contract value (excluding the cost of Operation & Annual Maintenance Contract) including the initial Security Deposit. On the Engineer's / Architect's issuing a certificate of virtual completion of the works, 50% of the security deposit shall be released to the contractor, and the remaining 50% will be released by the Employer after the Contractor obtains the no dues certificate from the engineer subject to Clause 33. The amounts retained by the Employer shall not bear any interest.

All compensation or other sums of money payable by the Contractor to the Employer under the terms of this contract may be deducted from the security deposit if the amount so permits and the Contractor

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shall, unless such deposit has become otherwise payable, within ten days after such deduction make good in cash the amount so deducted.

The security deposit of the contractor will be forfeited if he fails to comply with any of the conditions of the contract.

47. Certificates & Payment

47a Secured Advance on Materials at Site

The Contractor will be paid secured advance against the materials brought and stacked at site for use in permanent works and in the opinion of the Engineer are required to be procured in advance. The advance paid for the materials stacked at site shall be maximum 80% of the cost of the materials or 65% of the relevant item rate, whichever is less at the discretion of Engineer and the Contractor shall produce necessary vouchers / documents in support of cost of each material. No advance shall be admitted for perishable and materials procured prematurely as decided by the Engineer.

Where in any Certificate (of which the Contractor has received payment), the Engineer has included the value of any unfixed materials intended for and / or placed on or adjacent to the works such materials shall become the property of the Employer and they shall not be removed except for use upon the works, without the written authority of the Engineer. The Contractor shall be liable for any loss of, or damage to, such materials.

The materials shall also be in conformity with contract specifications and of approved quality as stated in relevant clauses hereof. These advance shall be made on the basis of the quantity of each material lying at site at the time of preparation of each interim bill. The Contractor shall sign indemnity bond for any loss either due to theft or fire etc.

47b Running Bill Payments

The Contractor shall be paid by the Employer from time to time by installments under Interim Certificate to be issued by the Engineer to the Contractor on account of the works executed when in the opinion of the Engineer, work to the approximate value named in the Appendix to form of tender "Minimum value of Work for Interim Certificate" (or less at the sole discretion of the Engineer) has been executed in accordance with this contract, subject to a retention of the percentage of such value named in the Appendix to form of tender hereto as 'Retention Percentage for Interim Certificates' until the total amount retained shall reach the sum named in the Appendix to form of tender as 'Security Deposit'.

47c The contractor shall be paid two bills in a month, which shall include work done and secured advance against material. If in the opinion of the Engineer the progress of the work warrants a third payment in a month, the same shall be so arranged by the Employer.

47d After submission of bill along with complete information, vouchers etc. to the satisfaction of the Engineer & after making necessary deductions toward Vat, Income Tax, Work Contract Tax & other recoveries deductible at source, the bill will be paid as follows:

47da An ADHOC PAYMENT of 75% of the value of work done as assessed by the Engineer shall be released within 7 working days by the Employer, after certification by the Engineer who will certify within 4 working days of submission of Bill including furnishing of all relevant documents.

47db Balance amount shall be certified by the Engineer within 10 working days of submission of bill and payment shall be released by the Employer within 5 working days of certificate receipt.

47e Final Bill

The Contractor shall submit final bill within 45 days from the date of issue of virtual completion certificate with all relevant information and details including as-built drawings, operation and maintenance manual, photographs etc. complete. The last date of submission of all relevant documents shall be reckoned as the date of final submission.

47f The Engineer within 45 days of submission of the final bill, shall issue a certificate of payment against the final bill to the Employer who shall thereupon, within 45 days from the date of receipt of the certificate, shall release the balance payment to the contractor after effecting all recoveries, including advances & payments against interim certificates.

47g The Engineer shall have power to withhold Certification if the works or any parts thereof are not being carried out to his satisfaction.

47h The Engineer may by any Certificate make any correction in any previous Certificate, which shall have been issued by him.

47i No payment shall be made to the Contractor if the Contractor fails to insure the works & keep them insured till the issue of the Virtual Completion Certificate.

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48. **Settlement of Disputes and Differences**

48a The Contractor shall try to settle all matters pertaining to this contract first with the Engineer. The decision of the Engineer may be in the form of a certificate, instruction or otherwise. The decision, opinion, direction, certificate for payment with respect to all or any of the matters under Clauses 18, 30, 31 and 32 hereof (which matters are hereinafter referred to as excepted matters) of the Engineer shall be final and conclusive and binding on the Contractor and Employer and shall be without appeal.

48b All other disputes and differences of any kind whatsoever between the Contractor and the Engineer arising out of or in connection with the contract or carrying out the works (whether during progress of work or within defects liability period and whether before or within 365 days of determination / abandonment / breach of the contract) shall then be referred by the Contractor to the Employer giving inter-alia full details of matter under dispute and the reasons thereof. The Employer shall within a period of 60 days from the receipt of such reference from the contractor, give his decision in writing. If the Contractor is dissatisfied with the decision of the Employer, he can refer the matter for arbitration by serving a written notice on the Employer, through the Engineer within a period of 28 days of such decision. The notice shall specify the matters with full details and amount, which are in dispute and referred for arbitration.

49. VOID

50. **Programme of Works**

50a **Detailed Programme to be Furnished:**

Within 15 days of receiving letter of Acceptance / Award the Contractor shall prepare and submit a detailed programme of works in the form of a Bar Chart / Mile stone network showing all activities & the order of procedure in which he proposes to carry out the works including labour histogram, cash flow and deployment of equipments. Within 15 days from the date of submission, the Engineer shall convey to the Contractor his comment / approval on the programme.

The contractor shall be required to submit the PERT / CPM chart for the various activities involved in this work including dependencies etc., and regularly monitor the progress of works accordingly.

50b **Programme to be modified**

Subject to the provisions of Clause 39 hereof, if at any time it should appear to the Engineer that the actual progress of the works does not conform to the approved programme referred to in sub-clause (i) of this Clause, the Contractor shall produce a revised & detailed programme showing the modifications to the original programme necessary to ensure the completion of the works within the time for completion as defined in Clause 39 hereof.

(iii) **Cash Flow**

50c The detailed programme shall also show the estimated Cash flow required for each month to complete the works.

50d **Progress Report**

Four copies of monthly progress reports containing the following shall be submitted by the Contractor to the Employer through the Engineer on or before the 5th day of the next month.

50da Monthly detailed progress report showing the progress of individual activities of programme as achieved at site till such period and being suitably marked on the approved network diagram, or as directed by the Engineer, shall be provided by the Contractor indicating the actual state of progress during the course of the contract, together with other details of procurement & delivery schedules of materials / equipments, as required by the Engineer.

50db Labour report in the form prescribed by the Engineer.

50dc Equipment & machinery report in the form prescribed by the Engineer.

50dd Supervisory staff report in the form prescribed by the Engineer.

50de Remedial Measures for covering up delay, if any,

50df Bottlenecks and hindrances,

50dg Minimum 5 Nos. of colour photographs of 7" x 5" with each report showing the progress of works.

Apart from the above the Contractor shall submit daily report indicating regular deployment of his staff and workers, equipments, important stages of progress, procurement of construction materials etc. as approved by the Engineer.

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51. **Urgent Repairs**

If by reason of any accident or failure or other event occurring to in or in connection with the Works, or any part thereof, either during the execution of the Works or during the Period of Defect Liability / Maintenance any remedial or other work or repair shall, in the opinion of the Engineer or Engineer's / Architect's representative be urgently necessary for security and safety of life or for the works or of adjoining property and the Contractor is unable or unwilling at once to do such work or repair, the Employer may employ his own or other workmen to do such work or repair, as the Engineer or the Engineer's / Architect's representative may consider necessary. If the work or repair so done by the Employer which is in the opinion of the Engineer, the Contractor was liable to do at his own expense under the Contract, all costs and charges incurred by the Employer in so doing shall on demand be paid by the Contractor to the Employer or may be deducted by the Employer from any monies due or which may become due to the Contractor. Provided always that the Engineer or the Engineer's / Architect's representative (as the case may be) shall, as soon after the occurrence of any such emergency, as may be reasonably practicable notify, the Contractor thereof in writing.

52. **VOID**

53. **VOID**

54. **Contractor to Search**

The Contractor shall, if required by the Engineer in writing, search, test as shall be necessary to determine the cause of any defect, imperfection or fault under the directions of the Engineer. Unless such defect, imperfection or fault shall be one for which the Contractor is liable under the contract the cost of the work carried out by the Contractor in searching as aforesaid shall be borne by the Employer. But if such defect, imperfection or fault shall be one for which the Contractor is liable as aforesaid, the cost of the work carried out in searching as aforesaid shall be borne by the Contractor and he shall in such case repair, rectify and make good such defect, imperfection or fault at his own expense in accordance with the provisions of Clause 30 hereof.

55. **Interference with Traffic and Adjoining Properties**

All operations necessary for the execution of the Works and for the construction of any Temporary Works shall so far as in compliance with the requirements of the Contract permits be carried on so as not to interfere unnecessarily or improperly with the public convenience or the access to use and occupation of public or private roads and footpaths or to or of properties whether in the possession of the Employer or of any other person and the Contractor shall save harmless and indemnify the Employer in respect of all claims, demands, proceedings, damages, costs, charges and expense whatsoever arising out of or in relation to any such matters in so far as the Contractor is responsible.

56a. **Extraordinary Traffic**

The Contractor shall use every reasonable means to prevent any of the highways or bridges communicating with or on the routes to the Site from being damaged or injured by any traffic of the Contractor or any of his sub-contractors and in particular shall select routes and use vehicles and restrict and distribute loads so that any such extraordinary traffic as will inevitably arise from the moving of plant and material from and to the site shall be limited as far as reasonably possible and so that no unnecessary damage or injury may be occasioned to such highways and bridges.

56b **Special Loads**

Should it be found necessary for the Contractor to move one or more loads of Constructional Plant Machinery or pre-constructed units or parts of units of work over part of a highway or bridge the moving whereof is likely to damage any highway or bridge unless special protection or strengthening is carried out then the Contractor shall adopt proper & adequate measures and shall be responsible for all the costs and consequences thereof.

56c **Settlement of Extra Ordinary Traffic Claims**

If during the carrying out of the works at any time or thereafter the Employer shall receive any claim arising out of the execution by the Contractor of the Works in respect of damage or injury to highways or bridges he shall immediately report the same to the Engineer and the Contractor and thereafter the Contractor shall negotiate the settlement of and pay all sums due in respect of such claims and shall indemnify the Employer in respect thereof and in respect of all claims, demands, proceedings, damages, costs charges and expenses in relation thereto provided always that if and so far as any such claims or part thereof shall in the opinion of the Engineer be due to any failure on the part of the Contractor to

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observe and perform his obligations then the amount certified by the Engineer to be due to such failure shall be paid by the Contractor.

57a Contractor to Keep Site Clear

During the progress of the works the Contractor shall keep the site reasonably free from all unnecessary obstruction and shall store or dispose of any constructional plant and surplus materials and clear away and remove from the site any wreckage, rubbish or temporary works which are no longer required.

57b Clearance of Site on Completion

On the completion of the Works the Contractor shall clear away and remove from the site all constructional plant, surplus materials, rubbish and temporary works of every kind and leave the whole of the site and works clean and in a workmanlike condition to the full satisfaction of the

Engineer / local authorities not later than 30 days from the virtual completion of the works or by such other later date as fixed by the Engineer.

58 Construction Plant

58a Definition

For the Purpose of this Clause

58aa The expression "Constructional Plant" shall be deemed to exclude vehicles engaged in transporting any plant, equipment or materials & staff to or from the site.

58ab The expression "Hired Plant" shall mean any Constructional Plant, Temporary Works and materials for Temporary Works held by the Contractor under any agreement for hire thereof.

58ac The expression "Hire Purchase Plant" shall mean any Constructional Plant Temporary Works and materials for Temporary Works held by the Contractor under any agreement for hire purchase thereof.

58b Hire Purchase of Plant Exclusively for Works

All Constructional Plant, Temporary Works and materials owned by the Contractor or by any person, company or firm in which the Contractor has a controlling interest shall when brought on to the Site (or in the case of Hire Purchase Plant on the Site on its becoming the property of the Contractor) shall be deemed to be exclusively intended for execution of the works and shall be deemed to be the property of the Employer till completion of the works.

58c Conditions of Hire of Certain Plant

With a view to securing in the event of a forfeiture under Clause 45 hereof the continued availability for the purpose of executing the Works of any of Hired Plant the Contractor shall not bring on to the Site any Hired Plant unless there is an agreement for the hire thereof which contains a provision that the owner thereof will on request in writing made by the Employer within seven days after the date on which any such forfeiture has become effective and on the Employer undertaking to pay all hire charges in respect thereof from such date, hire such Hired Plant to the Employer on the same terms in all respects as the same was hired to the Contractor save that the Employer shall be entitled to permit the use thereof by any other contractor employed by him for the purpose of completing the works.

58d Cost of Hiring Plants for purposes of Clause 45

In the event of the Employer entering into any agreement for hire of Hired Plant pursuant to the provisions of Sub-Clause (iii) of this Clause all sums properly paid by the Employer under the provisions of any such agreement and all expenses incurred by him (including stamp duties) in entering in to such agreement shall be deemed for the purpose of Clause 45 hereof to be part of the cost of completing the Works.

58e Contractor's Certificate as to Hiring Provisions

The Contractor shall upon request made by the Engineer at any time in relation to any item of Hired Plant forthwith notify to the Engineer in the name and address of the owner thereof and shall certify that the agreement for the hire thereof contains a provision in accordance with the requirements of sub-clause (iii) of this Clause. The Contractor shall also upon request as aforesaid give a like notification (but without certificate) in regard to any Hire Purchase Plant. The Contractor shall upon the request made by the Engineer provide the Engineer with true copy/copies of such agreement(s).

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58f Hire Purchase Payments by Employer

The Employer shall in order to avoid seizure by the owner of any Hire Purchase Plant be entitled to pay to such owner the amount of any overdue installment or other sum payable under any agreement for hire purchase of plant and in the event of his doing so any amount so paid by him shall be debt due from the Contractor to the Employer and shall be deducted by the Employer from any monies due or that may become due to the Contractor under the Contract or otherwise or may be recovered by the Employer from the Contractor as per the law.

58g Plants Etc. Not to be Removed

No Constructional Plant, Temporary Works or materials or any part thereof shall be removed from the site without the written consent of the Engineer, which consent shall not be unreasonably withheld where the same is no longer immediately required for the purpose of completion of the Works. The Employer will permit the Contractor the exclusive use of all such Constructional Plant, Temporary Works and materials in and for the completion of the Works until the happening of any event, which gives right to the Employer to exclude the Contractor from the Site and proceed with the completion of the Works.

58h Re-vesting & Removal of Plant

Upon removal of any such Constructional plant Temporary Works or materials as have been deemed to have become the property of the Employer under sub-clause (ii) of this Clause with consent of the Employer the property therein shall be deemed to re-vest in the Contractor and upon completion of the Works the property in the remainder of such Constructional Plant, Temporary Works and Materials as aforesaid shall subject to the provisions of Clause 45 hereof be deemed to re-vest in the Contractor who shall remove the same together with Hire Purchase Plant.

58i Disposal of Plant

If the Contractor shall fail to remove any Constructional plant Temporary works or materials as aforesaid or any Hired plant, or Hire Purchase Plant within such reasonable time after completion of the Works as may be allowed by the Engineer at its discretion then the Employer may sell any such Constructional Plant, Temporary works and materials as aforesaid and return at the Contractor's expense to the person or company from whom any hired Plant or any Hired Purchases Plant was hired by the Contractor; and after deducting from any proceeds of sale the costs, charges and expenses of and in connection with such sale and of and in connection with return as aforesaid shall pay the balance (if any) to the Contractor but to the extent that the proceeds of any sale are insufficient to meet all such costs, charges and expenses the excess shall be a debt due from the Contractor to Employer & shall be a deductible or recoverable by from any items that may be due from any monies to the Contractor.

58j Liability for Loss or Injury to Plant

The Employer shall not at any time be liable for the damage / loss of or injury to any of the Constructional Plant Temporary works or materials which have been deemed to become the property of the Employer under sub-clause of this Clause, save as mentioned in above Clause.

58k Incorporation of Clause in Sub-Contracts

The Contractor shall when entering into any sub- contract for the execution of any part of work incorporate in such sub-contract by reference or otherwise the provisions of this Clause in relation to Constructional Plant, Temporary Works and Materials, Essential Hired Plant and Hire Purchase Plant brought on to the site by the Sub-Contractor.

59a Labour Laws

The Contractor shall observe and strictly adhere to all prevailing labour laws inclusive of Contract Labour (Regulation and Abolition) act of 1970 (latest revision) and other safety regulations.

59b Supply of Water

The Contractor shall having regard to local conditions provide on the Site to the satisfaction of the Engineer an adequate supply of drinking and other water for the use of the Contractor's staff, workmen, Engineer's / Architect's staff for the work.

59c Festivals & Religious Customs

The Contractor and sub-contractor's agents and employees shall in all their dealings with their workmen and labourers for the time being employed on or in connection with the works have due regard to all recognized festivals and religious and other customs.

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59d **Epidemics**

In the event of any outbreak of illness of an epidemic nature the Contractor shall comply with and carry out such regulations, orders and requirements as may be made by the Government or the local medical or sanitary authorities for the purpose of overcoming the same.

59e **Disorderly Conduct**

The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst his or his sub-contractor's employees and for the preservation of peace and protection of persons and property in the neighborhood of the works against the same but the contractor shall not interfere with member of any authorized Police Force who shall have free & undisputed access at all times to any part of the Works in the execution of their duties.

59f **Accidents**

The Contractor shall immediately on occurrence of any accident at or about the Site or in connection with the execution of the work report such accident to the Engineer's / Architect's representative. The Contractor shall also report such accident immediately to the competent authority whenever such report is required to be lodged by law & take appropriate actions thereof. The Contractor shall submit to the Engineer safety statistics as per the format given in "Annexure F".

59g **Fair Wages**

The Contractor shall in respect of all persons employed by him in factories, workshops or other places occupied or used by him for the execution of the Contract including the Works, pay rates or wages, emoluments and expenses and observe hours and conditions of labour not less favorable than those established for the trade or industry in the district where the work is carried out to which the organizations of employers and trade unions representatives or a substantial proportions of the employers and workers engaged in the trade or industry in the district are affiliated. In the absence of such established rates and conditions the Contractor shall pay rates or wages and observe hours and conditions of labour which are not less favorable than the general level of wages, hours and conditions observed in the trades or industries similar to those in which the Contractor is engaged.

The Contractor shall comply with the provision of all labour legislation including the latest requirements of all the Acts, Laws, any Regulation or Bylaws or any local or other statutory Authority applicable in relation to the execution of works, such as:

59ga Minimum wages Act, 1948 (Amended)

59gb Payment of Wages Act, 1936 (Amended)

59gc Workmen's Compensation Act, 1923 (Amended Act No 65 of 1976)

59gd Contract Labour Regulation & Abolition Act, 1970 and Central Rules 1971 (Amended)

59ge Apprentices Act 1961

59gf Any other Act or enactment relating thereto and rules framed thereunder from time to time

59gg Industrial Employment (standing order) Act, 1946 (Amended)

59gh Personal Injuries (Compensation Insurance) Act, 1963 and any modifications thereof & rule made thereunder from time to time.

59gi Employees' Provident Fund & Miscellaneous Provisions Act, 1952 and amendment thereof.

59ha **Workmen's Compensation**

If, for any reason, the Employer is obliged, by virtue of the provisions of the Workmen's Compensation Act, 1923, or any statutory modification or reenactment thereof to pay compensation to a workman employed by the Contractor in execution of the works, the Employer shall be entitled to recover from the Contractor the amount of compensation so paid and without prejudice to the rights of the Employer under the said Act. The Employer shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by the Employer to the Contractor under this Contract or otherwise. The Employer shall not be bound to contest any claim made against it under the said Act, except on the written request of the contractor and upon his giving to the Employer full security to the satisfaction of the Employer for all costs for which the Employer might become liable in consequence of contesting such claim.

59hb **Observance by Sub-Contractors**

The Contractor shall be responsible for the observance by sub-contractors employed by him in the execution of this Contract of the provisions hereof and applicable laws, rules and regulations.

59hc Contractor will have to obtain Contractors All Risk insurance policy with an amount equal to 110% of the value of the contract on "all risk basis" including strikes, riots and civil commotion etc. for third

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party compensation (for Minimum Amount of Third Party Insurance) as workman compensation policy so as to cover the risks detailed in above clause and that the listed policies normally cover. Policies will have to be taken out jointly in name of BOB and the contractor with BOB named first, Original policies will have to be submitted to BOB.

60. **Safety Code**

61a First aid appliances including adequate supply of sterilized dressings and cotton wool shall be kept in a readily accessible place.

61b An injured person shall be taken to a public hospital without loss of time, in cases where the injury necessitates hospitalization.

61c Suitable and strong scaffolds should be provided for workmen for all works that cannot safely be done from ground.

61d No portable single ladder shall be over 8 meters in length. The width between the side rails shall not be less than 30 cm. (clear) and the distance between two adjacent rungs shall not be more than 30 cm. When a ladder is used an extra mazdoor shall be engaged for holding the ladder.

61e The excavated material shall not be placed within 1.5 meters of the edge of the trench or half of the depth of trench whichever is more. All trenches and excavations shall be provided with necessary fencing and lighting.

61f Every opening in the floor of a building or in a working platform be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing / railing of minimum height of one meter.

61g All staff and workers employed in the work shall be provided with safety shoes, helmet, belt, etc.

61h No floor, roof or other part of the structure shall be so overloaded with debris or materials as to render it unsafe.

61i Those engaged in welding works shall be provided with welder's protective eye-shields and gloves.

61ja No paint containing lead or lead products shall be used except in the form of paste or readymade paint.

61jb Suitable facemasks should be supplied for use by the workers when the paint is applied in the form of spray or surface having lead paint dry rubbed and scrapped.

61k Overalls shall be supplied by the Contractor to the painters and adequate facilities shall be provided to enable the working painters to wash during the periods of cessation of work.

61l Hoisting machines and tackle used in the works, including their attachments, anchorage and supports shall be in perfect condition.

61m The ropes used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength and free from defects.

61n Contractor shall appoint "Safety Officer" to maintain safety records to the satisfaction of the Engineer.

CONDITIONS OF FORCE MAJEURE

The terms "Force Majeure" as employed herein shall mean act of God, war, revolt, riot, fire, flood and Acts & Regulations of respective Governments of the two parties namely the Employer and the Contractor.

Note: - "Typhoon" is covered under act of God"

In the event of either party being rendered unable by force majeure to perform any of obligation required to be performed by them under the Contract, the relative obligation of the party affected by such Force Majeure shall upon notification to the other party be suspended for the period of delay which is directly caused by such Force Majeure event.

Upon the occurrence of such cause and upon its termination, the party alleging that it has been rendered unable as aforesaid thereby, shall notify the other party in writing within (72) seventy two hours of the alleged beginning and ending thereof giving full particulars and satisfactory evidence in support of its claim.

Time for performance of the relative obligation suspended by the Force Majeure shall then stand extended by the period of delay, which is directly caused by Force Majeure event. The party who has given such notice shall be executed from timely performance of its obligations under the Contract, for so long as the relevant event of Force Majeure continues and to the extent that such parties

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performance is prevented, hindered or delayed, provided the party or parties affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect thereof upon its performance of the Contract and so to fulfill its obligations under the Contract.

If works to be executed by the Contractor are suspended by Force Majeure conditions lasting for more than (2) two months, the Employer shall have the option of canceling or terminating this Contract in whole or part thereof at Employer's discretion. Upon such termination provisions of Clause 45 shall apply.

Delay or non-performance by a party hereto caused by the occurrence of any of Force Majeure shall not:

- a) Constitute a default or breach of the Contract,
- b) Give rise to any claim for damages or additional cost or expense occasioned thereby : if such delay or non-performance is caused by the occurrence of any event of Force Majeure. Force Majeure conditions shall not be payable under any circumstances.

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SPECIAL CONDITIONS OF CONTRACT

01 Scope of Work

The scope of the work is to carry out **Proposed Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at alternate premises of Surendranagar Main branch at Sukh Shanti, Meghani Marg, Nr Reliance Trendz, Surendranagar , Gujarat.**

The Interior works broadly comprise of:

- a) Carpentry work viz. tables, storage, sofa, cabinets etc.
- b) Wall Paneling and Partition Works
- c) False Ceiling works.
- d) Painting and Varnishing works.
- e) Supply and installation of Tables, partitions, Sofas and storage units.
- f) Supply and installation of window dressings.
- g) Miscellaneous Civil, Works
- h) Electric, Data cabling, and AC works.

02 Location of Site

The site is located on **alternate premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.**

03 Area for the Contractor

The area to the extent available, at the discretion of the Architect/Engineer, from the said plot will be allocated to the contractor for his stores, offices, erection of plants, workshops etc. Any additional area including area for labour camp etc. shall be arranged by the contractor at his own cost. The Employer neither undertakes any responsibility for providing the area more than the above nor will entertain any claim/ reimbursement etc. towards arrangement of additional area / land etc. by the contractor.

04 Dimensions and Levels

All dimensions and levels shown on the Drawings shall be verified by the Contractor on the Site and he will be held responsible for the accuracy and maintenance of all the dimensions and the levels.

Figured dimensions are in all cases to be accepted and no dimension shall be scaled. Large-scale details shall take precedence over small-scale drawings. In case of discrepancy the Contractor shall ask for clarification from the Engineer before proceeding with the work.

05 Notice of Operation

The Contractor shall not carry out any important operation without the consent in writing of the Engineer.

06 Construction Records

The Contractor shall keep and provide to the Engineer full and accurate records of the dimensions and positions of all new work and any other information necessary for the Engineer.

07 VOID

08 Temporary Works

Before any Temporary Works are commenced the Contractor shall submit at least 7 days in advance to the Engineer for approval, complete drawings of all Temporary Works he may require for the execution of the works. The Contractor shall also submit his calculations relating to strength, if required by the Engineer and shall carry out the modifications that the Engineer may require in accordance with the Conditions of Contract at his own cost. The Contractor shall be solely responsible for the stability and safety of all Temporary Works and unfinished works and for the quality of the permanent works resulting from the arrangement eventually adopted for their execution.

09 VOID

10 Power, Water & Other Facilities

10a The Contractor shall make his own arrangements for the supply of good quality potable water at site, for his labour at site, and all charges for water shall be borne by him. If Municipal water is not available and should it become necessary for Contractor to bore wells for obtaining water for construction purposes or to bring water from outside by tankers, the Employer shall not be liable to pay any charges in connection therewith.

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10b The rate quoted in the tender shall also include electric consumption charges for power.

10c For water and electricity, the Contractors shall be entitled to take connections from the temporary water and electric supply connection either by electric supply or diesel generation power obtained by the General Building Contractor, at his cost. The Contractor shall install a sub-meter separately for electricity and water supply at the location adjacent to the main meter for measuring electric / water consumption at their own cost and maintain the wiring / installation in good condition as per the local rules and reimburse the actual consumption charges directly to the General Building Contractor at mutually agreed rates between them. In case of any dispute, the reimbursement charges shall be decided by the Engineer, whose decision shall be final and without appeal.

10d The Contractor is to provide at site at his cost at least one telephone cum fax machine and shall allow the client, consultant and Engineer's / Architect's representative for use of the same at free of cost for local use.

11 Temporary Services

The Contractor shall provide and maintain all temporary services on or about the site, if any required for the execution of the works and shall remove them on completion.

12 Office Accommodation for Contractor

The Contractor shall provide and maintain all necessary office(s), workshops, stores, shelters, sanitary facilities, canteens and other temporary buildings for themselves and their staff at site to the approval of the Engineer.

All temporary buildings of Contractor shall be removed at the completion of the project or at any earlier date as directed by the Engineer without any extra cost.

All the expenses for obtaining statutory approvals and maintenance of the above facilities as well as running expenses shall be borne by the contractor at no extra cost. It is also responsibility of the Contractor to obtain statutory approvals for providing above facilities.

13 VOID

14 Facilities for Contractor's Employees

The Contractor shall make his own arrangement for the housing and welfare of his staff and workmen including adequate drinking water and sanitary facilities. The Contractor shall also make his own arrangements at his own cost for transport where necessary for his staff and workmen to and from the Sites of the works. The necessary drinking water and sanitary facilities for Employer's & Engineer's / Architect's representative, contractor's staff & labour & visitors at site shall be provided and maintained by the contractor at no extra cost.

15 Lighting for Works

The Contractor shall at all times provide adequate and approved lighting as required for the proper execution and supervision & inspection of the works.

16 Fire Fighting Arrangement

16a The Contractor shall provide suitable arrangements for firefighting at his own cost. For this purpose, he shall provide requisite number of Fire-Extinguishers and adequate number of buckets, some of which are to be always kept filled with sand and some with water. These equipment shall be provided at suitable prominent and easily accessible places and shall be properly maintained.

16b The Contractor may be subject to periodic fire prevention inspections and any deficiency or unsafe condition shall be corrected by the Contractor at his own cost and to approval of the Engineer and the relevant authorities.

These fire prevention inspections shall include but not limited to the following:

- a Proper handling, storage and disposal of combustible materials, liquids and wastes.
- b Work operations which can create fire hazards.
- c Access for firefighting equipment.
- d Type, size, number and location of fire extinguishers or other firefighting equipment.
- e Inspection and maintenance records of extinguishers.
- f Type, number and location of containers for the removal of surplus materials and rubbish.
- g General housekeeping

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17 **Site Books**

For the purpose of quick communication between the Engineer and the Contractor or his Agent or Representative, Site Books shall be maintained at Site in the manner as described below: -

Any communication, relating to the works may be conveyed through records in the Site Books. Such a communication from one party to the other shall be deemed to have been adequately served in terms of the Contract. Each site book shall have machine-numbered pages in triplicate and shall be carefully maintained and preserved by the Contractor and shall be made available to the Engineer as and when demanded. Any instruction which the Engineer may like to issue to the Contractor may be recorded by him in the Site Book and two copies thereof taken by the engineer for his record. The Contractor or his Agency or Representative may similarly record in the Site Book any communication he may like to send to the Engineer. Two copies thereof when sent to the Engineer and receipt obtained thereof, will constitute adequate services of the communication to the Engineer.

18 **VOID**

19 **Site Meetings**

Progress and quality evaluation meetings will be held at the site every week. The Contractors senior representative in charge of the project along with his site-in-charge and other staff including staff of approved subcontractors and suppliers as required shall participate in these progress review meetings and ensure all follow up actions. Any additional review meetings shall be held if required, as decided by the Engineer, which also shall be attended by the above-referred representatives.

20 **VOID**

21 **Disposal of Refuse etc.**

21a The Contractor shall cart away from site and deposit where directed by the Engineer all refuse, etc. arising from the Works both as it accumulates, at completion of the Works or at the direction of the Engineer.

21b It is the responsibility of the Contractor to obtain a certificate from the local authorities concerned to the effect that all rubbish arising out of Contractor's activities at the construction site or any other offsite activities borrow pits and / or disposal area(s) has been properly disposed off.

This certificate from the authority shall be dated not later than the (last) Certificate of Completion of Works and is to be enclosed with the Payment Certificate in which the Contractor requests for payment of any Retention money due to him.

22 **Contractor to verify site Measurements**

The Contractor shall check and verify all site measurements whenever requested by other specialists, Contractors or by nominated or other sub-contractors to enable them to prepare their own shop drawings and pass on the information with sufficient promptness, as will not in any way delay the works. A copy of all such information passed on shall be given to the Engineer.

23 **VOID**

24 **VOID**

25 **Approved Makes / Agencies**

The Contractor shall provide all materials from the list of approved makes or as mentioned in BOQ and also appoint the specialist agency from the approved list / BOQ as provided in the Tender. The Architect / Employer may approve any make / agency within the approved list / BOQ after inspection of their samples / mock-ups and after ascertaining their spare capacities and recent past performances.

The items which are not covered in the List of Approved Makes shall be as per Samples approved by the Architect.

Colours or type if not mentioned elsewhere shall be as approved by the Architect.

26 **VOID**

27 **Procurement of Materials**

The contractor shall make his own arrangement to procure all materials required for the work unless otherwise specified elsewhere to be supplied by Employer / Owner. All wastages shall be to the contractors account.

28a **Excise & Sales Taxes, Works Contract Tax for Works**

The Contractor shall pay and be responsible for payment of all taxes, duties, levies, royalties, fees or charges in respect of the works including but not limited to sales taxes, tax on works contract, excise

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duties and Octroi, payable in respect of materials, equipment, plant and other things required for the Contract. All of the aforesaid taxes, duties, levies fees and charges shall be to the Contractor's account and Employer shall not be required to pay any additional or extra amount on this account. Variation of taxes, duties, levies, fees etc., if any, till completion of work shall be deemed to be included in the accepted rates & no extra claim on this account will in any case be entertained.

28b New Taxes, Duties & Levies, etc.

However, if a new Tax or Duty or Levy is imposed under as statute or law during the currency of the contract, and the same shall be borne by the Contractor.

29 General Price Variation Adjustment (PVA)

The Contractor's final quoted price as accepted by the Employer shall remain firm during the entire contract period including authorized extension period. There shall not be any price variation for any reason whatsoever.

30 VOID

31 Guarantee and Maintenance during Defect Liability Period.

In pursuant to Clause No. 34 of GCC, the contractor shall guarantee all materials furnished and workmanship for a period of 365 days from the date of virtual completion of work i.e during Defect Liability Period. All failed parts or parts exhibiting unusual wear and tear during guarantee period shall be replaced without any cost to the Owner, and such replacement shall be factory approved new, equal or better than original. All labour, tools, materials, transportation, insurance etc., required in performance of guarantee work shall be at the contractor's expense.

32 VOID

33 VOID

34 Project Execution and Management

In pursuant to Clause No. 14 (i) of GCC, the Sr. Representative shall be assisted by adequate number of Engineers / Supervisors at site on full time basis.

For quality control and monitoring of workmanship, contractor shall assign at least one full time engineer who would be exclusively responsible for ensuring strict quality control, adherence to specifications and ensuring top class workmanship.

35 Tools and Tackles

All tools, tackles, supports, scaffolding and staging etc. required for erection and assembly of the equipment and installation covered by the contract shall be provided by the Contractor himself. In addition, all other materials such as foundation bolts, nuts etc. required for the installation of the equipment shall also be provided by the contractor at his cost.

36 Void

37 Safety Precautions

37a A competent and authorized supervisor shall be on the site whenever the contractor's men are at work. The supervisor should ensure that all plant and machinery used on the site are rendered safe for working and meet with the Indian or International safety standards applicable for the use and operation of such machinery. The supervisor should also ensure that the workmen at site are made to use safety appliances such as safety belts, lifelines, helmets etc.

37b Smoking shall be altogether strictly prohibited in all areas of work as well as where combustible and inflammable goods / materials are stored or lying about.

37c Any hot job such as welding, soldering, gas cutting shall not be carried out without the permission of the Engineer. Such jobs shall not be carried out where inflammable materials are stored or lying about.

All electric connections shall be through adequately sized mechanically protected cables without any joints and with proper and adequate terminals boxes. All power supplies shall be through properly rated fuses with isolating devices. No such hot jobs shall be carried out on holidays and without the presence of the Contractor's Supervisor and Owners permissions.

37d It is entirely the responsibility of the Contractor to practice the principles of 'SAFETY FIRST' during the entire tenure of work with adequate insurance covering injury or death to workmen, loss by theft or damage to materials and property and third party.

37e The Contractor should clear the site of all debris every day to avoid accidents. In case this is not done, the Owners may engage necessary labour to maintain the cleanliness of the premises and removal of debris and recover all or part of the expenditure so incurred from the Contractor.

Bidders Signature with Stamp and date

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37f Contractor shall at his own cost ensure that all of his personnel, employees, work men and other associated persons working with him at site are adequately insured as per labour laws and statutory provisions. The Contractor shall be responsible for all injuries / damages to men, materials and properties etc. which may arise from the operations or negligence of himself and / or his sub contractors and indemnify the Owners for all such expenses which shall be solely to contractor's own account.

37g Contractor shall at his own cost, provide and maintain a full-fledged first-aid-box to give immediate medical aid to the workers / supervisory staff, in case of emergencies.

37h The contractor shall carry out the work strictly as per the safety aspects.

38 Technical Audit

The whole of the work may be technically audited by the Chief Technical Examiner (CTE) of the Central Vigilance Commission, Government of India from time to time. Any defects, improvement or testing etc. conveyed by the Examiner shall be carried out by the contractor at no extra cost, to the satisfaction of the CTE. Any deduction suggested by the CTE either due to faulty workmanship or not adhering to the specification will be effected.

The Employer shall have a right to cause a technical examination and audit of work and running and final bills of the contractor including all supporting vouchers. Abstract, etc. to

be made at the time of the bill. If as a result of this examination or otherwise any sum is found to have been overpaid in respect of any work done by the contractor under the contract the contractor shall be liable to return the amount of over payment and it will be lawful for the employer to recover the same from any sum or sums due to him and in any other manner legally permissible and if it is found that the Contractor was paid less than what was due to him under the contract in respect of any work, executed by him under the contract, the amount of such under payment shall be duly considered / paid by the employer.

Any sum of money due and payable to the contractor (including security deposit returnable to him) under this contract may be appropriated by the Employer and set off against any claim of the Employer for the payment of a sum of money arising out of or under any other contract made by the Contractor with the Employer.

The brand / make mentioned in the following list should be used by the Contractor and rate quoted should be based on the same. In case of the brand / make is not available, materials of other makes should be used with prior approval of Architect and Bank. The rates will be revised, based on the difference in basic rates of the make brand / name mentioned below: -

List Of Approved Makes For Civil, Carpentry & Electrical Works		
Make / Specification Detail		
Sr. No.	LIST OF NOMINATED MATERIALS & SUPPLIERS	SUGGESTED MAKE LIST
1	INTERIOR WORK	
	Commercial Plywood	Nuwud / Century / Asain / Archid / Greenply /Samrat Or Equivalent
	Laminated sheet	Archidlam National / Formica/ Greenlam /Merino/Samrat/ Century
	Veneer	Green / Duro / Century / Timex / Anchor or equivalent
	Particle board (only for modular w/s & storage Unit)	Archidply /Greenlam/Century equivalent ISI make
	Acrylic sheet	ICI, GE or equivalent ISI make
	Marine grade plywood	Century, Kitply, Greenply, Anchor, Orchid, Prince, Samrat
	Adhesive	Fevicol / Araldite/Anchor or equivalent

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Solid Surfaces (Curion)	DUPOINT/HI-MAC/ STARON OR equivalent
Marine grade Block Board	Century, Kitply, Greenply, Anchor, Orchid or equivalent
Flush Door	Century, Kitply, Greenply, Anchor, Orchid or equivalent
Polish	Asian / Dulex or equivalent
Latex	MM Foam or equivalent ISI make
High density foam	U Foam or equivalent ISI make
Locks	Godrej / Haffle / Hettich / Ebco or equivalent
Storage Hardware	Godrej / Haffle / Hettich / Ebco or equivalent
Screws / Nails & other accessories	GKW / Nettleford or equivalent
False Flooring	Kebao , Armstrong , AMF or equivalent
Vinyl Flooring	Armstrong ,gerflor, Eurotex ,
Carpet	Unitex, Armstrong,
Wooden laminated flooring	Pergo / Armstrong / Euro / Squarefeet or equivalent
Plain/Toughened glass	Saint- Gobain, Indo Asahi , Modi or equivalent
Hardware for general staff areas	Dorma / Euro/ Ozone / Enox / Ebco /Hamco or equivalent
Hardware for main Glass doors (patch fittings)	Dorma / Euro/ Ozone / Enox / Ebco /Hamco or equivalent
Door Closers (general use)	Dorma / Euro/ Ozone / Enox / Ebco /Hamco or equivalent
Floor springs (general use)	Dorma / Euro/ Ozone / Enox / Ebco /Hamco or equivalent
Floor springs for main glass doors	Dorma / Euro/ Ozone / Enox / Ebco /Hamco or equivalent
Aluminium Sections for Partitions	Jindal / Tata steel or equivalent
False Ceilings: Gypsum	India Gypsum / Saint Gobain / Asia
False Ceilings: Grid (As Approved)	Armstrong / AMF or equivalent
False Ceilings: Grid (Metal Ceiling)	Unimech / AMF / Armstrong /
GI Sections	India Gypsum / Saint Gobain / Jindal or equivalent
Acoustical False Ceilings: Mineral fiber board	Armstrong, Hunter Douglas / Peritex or equivalent
POP Punning	Gyprock / India Gypsum / Birla
Paint	Asian / Nerolac / Dulex / Berger or equivalent
Exterior Paint	Asian / Nerolac / Dulex / Berger or equivalent
ACP (Exterior / Interior)	Alstone / Eurobond / Alucobond
Cylicon	G E / Dow corning / Wacer
Rolling / Vertical Blind	Vista / Peritex / Winfab / MAC or equivalent

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	Frosted Film	Garware or equivalent
	Aluminum Skirting - 50mm	Jindal or equivalent
	Water Proofing	Pidilite or equivalent
	HardWood	Salwood / Teakwood/kapoor
	Automated Rolling Shutter	Gandhi Automation/Toshi Automatic Systems/Akash Rolling Shutter
	Glass	Saint Gobain / equivalent
2	Plumbing	
	CP Fitting	Jaquar /Hindware or equivalent
	Sanitary Ware	Hindware / Cera / Parryware or equivalent
	Sanitary Fittings	Jaquar /Hindware
	Geysers	Bajaj / Sphere Hot / Crompton /Racold / V Guard / Havells
	Stainless Steel sink	Nirali / Diamond or equivalent
	C.I. Pipe	Bengal Iron Corporation or equivalent ISI make
	Urinal Partition Glass	Merino / Saint Gobain/ Modi / Asai
	GI Pipe	Tata/ Jindal / Zenith or equivalent
	CP Fitting	Prince /Astral or equivalent
	PVC & CPVC Pipe	Prince /Astral or equivalent
3	Civil Work	
	Ceramic Tiles/vitrified homogeneous glazed tiles	HR Johnson, Kajaria, Nitco, AGL
	Cement	Ultratech , ACC , JK Cement , Ambuja
	Chemical Pasting (Tiles)	Pidilite , Fosroc , Eurokart
	Steel	Sail ,Tisscon , Ispat , Tata
4	Electrical	
	Light Fittings	Philips / Wipro / Osram / Havells / Crompton G.
	MCCB, MCB , RCCB, DB, ICTPN TP, HRC Fuse, change over switch, switch fuse Unit	L&T, ABB, Legrand, Siemens, Schneider
	FRLS insulated Elec. Wire/ cable armoured, unarmoured, Sheathed, unsheathed, flexible LT cable, Multi core, single core cable, flat cable	Finolex/Ploycab/Havells/RR kabel/KEI
	PVC conduit(HEAVY DUTY ONLY)	CAP/Finolex/Polycab
	PVC insulated copper conductor Wires	Finolex/ Polycab/RR Cable

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	Distribution Box	Legrand/ Schneider/ ABB/Siemens
	MCB & MCCB	Legrand/ Schneider/ ABB/Siemens/L&T
	Light Fixture & Lamps	Philips/ Wipro Osram / Havells / Crompton G./ Halonix
	HT cable	Polycab/Havells
	Modular Switches	ABB/ Legrand/ MK/ ANCHOR/ELLEYS/ROMA
	DLP Trunking	Legrand/Schneider or equivalent
	Power cable	CCI/ Skytone/ Universal/ LAPP/ Torrent
	End Termination	Raychem/ Mahindra/ELMEX
	PANEL	Crompton/L&T/C&S
	Fan	Crompton/Havells/Bajaj/Usha
	Raceway & Alu. Trunking	Tata/Jindal/Zenith
	Casing Caping	Finolex/Cap or equivalent
	Weather proof socket outlet with MCB	ABB/MDS/LEXIC/Neptune/Elcon- Clipsil, Siemens, Schneider (Merlin Gerin)
	Miniature Circuit Breaker	ABB/MDS/LEXIC/ Clipsil/Siemens/HPL
	Earth Leakage Circuit Breaker	MDS/LEXIS/Siemens/HPL
	MCB Distribution Boards in sheet steel housing (double door)	ABB/MDS/LEXIC/Siemens/HPL
5	Distribution	
	MV Contractor/Timer/Relays/Starters	Legrand/ Schneider(MG)/ ABB/Siemens/L&T
	Moulded case circuit breakers	Legrand/ Schneider(MG)/ ABB/Siemens/L&T
	SFU/Fuses	HPL/ L&T. Siemens, GE Power, Schneider (MG)
	ACB	Schneider(MG)/ ABB/Siemens/L&T
	Single Phase Preventer (Current base)	L&T, Minilec
	Raising Mains & Tap Off (Power coated)	Zeta, C&S, Siemens
	MV Switchboards (Powder Coated)	Tricolite Electrical Industries, conlec Enginners Pvt. Ltd, Vidyut Control Pvt Ltd., Trinitron Milestone Switchgear, Unilec Ltd, Madhu Electrical Advance Electro Control Pvt Ltd.
6	Low Tension System	
	Light & Fan Wire	Polycab, Finolex, Havells
	Telephone Wires	Delton, Skyline, Finolex, Rallison, Batra Henley
	Telephone Tag Blocks	Krone / Pouyet/ TVS

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7	Cables and Accessories	
	1100Volts grade Cables	CCI, Universal, Fort Gloster, Polycab, RPG (Asian), Nicco
	Cable Lugs	Dowells
	Cable compression Glands	Peeco/ Comet
	Cable Trays / Cable ladders	Slotco, Bharti, RICCO, Pilco, MM Enterprises
8	Metering & Protection	
	Cast Resin current transformers	Gilbert Maxwell, Kappa AE, Precise
	Meters (Digital)	L&T Roshab, Automatic Electric, Siemens, Socomex
	Selector switches	HPL/L&T Salzer, Kaycee
	Indication lamp	L&T Vaisno Teknic
	KWH Electronics Digital Meter	Secure, L&T, Enercon, Socomec- HPL
9	EPABX	
	Exchange/ Console Panel	Copper connection, Flash Hymax, Accord CG, Tata Telecom, Panasonic
	CVT	Logicstat, Blue Bird, Selvon, Max Power
	UPS	HPL- Socomec, Tata Liebert, APC, Invensys, Copper Connection
	Hand Set	Beetel, Tataphone, Crompton
	Tape off	Cat Vision, Shyam
10	Electrical Items	
	Panel Switch Gear & related Item	
	LT Panel/Bus Duct	By any Panel manufacturer who process C.P.R.I. certificate for specified fault level & IP level protection
	Fuse Disconnect switch/switch fuse unit	L&T, Siemens/ Schneider/ ABB/ Legrand
	Ammeter Voltmeter	AE/L&T/MECO/Rishab
	Digital Meters/ Intelligent Multifunctional Digital meter	AE/HPL/CONZERV
	Selector Switch, Push button switch / emergency switch	KAY CEE/ L&T/ Siemens/ Schneider
	Indication Lamp	AE/L&T/Siemens/ Schneider
	CT's	L&T / AE/ Kappa
	AT's	L&T/Siemens/ Schneider/ legrand
	Voltage stabilizer for air conditioner (4/5KVA)(170-270V)	V Guard/Microtek
	Air Conditioner - Split Inverter AC (3/5 star) - (.75 ton -1ton,1.5 ton,1.8ton-	Daikin/Blue Star/ Carrier/Hitachi
	Air Conditioner - Cassette AC/Inverter AC (5/4/3 star) - (2.9 ton - 3.5 Ton)	Daikin/Blue Star/ Carrier/Hitachi

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11	Transformer	
	Distribution Transformer	Jindal / Areva/ Muskan/ Alstrom
	11 or 33 KV VCB	Crompton/ Alstom/ ABB
	HT Termination & Jointing kit	Ray Chaem / Mahindra/ ELMEX
	Cable Glands	Dowells / Siemens/ Braco
	Lugs & Thimbles	Dowells / Johnson
	Upto & including 11KV cables (ISI markes)	CCI/ Skytone/ Gloster/ Havells
	Insulating Mats	ISI Marked
	Capacitor Bank (ISI marked)	GE Power/ BHEL/EPCOS/ L&T
	Lightning Arrestor	Altas/ Alstom/ GE power
	Protection & Other Relay	ABB/ Siemens/ Schneider/ L&T/ Allen Bradley
12	Internal Wiring Related Works	
	MCB/RCCS/Isolators (ISI) marked MCB DB	L&T Siemens/ Schneider/ Legrand
	PVC Conduit	CAP / BEC/ Seiko/ AKG
	PVC insulated copper wire (ISI marked)	Skyline/ Finolex/ Havells/ Ploycab
	Telephone Cable	Skytone/ Delton/ NICCO/ Polycab/ Finolex
	Switch, TV & Telephone socket & boxes (Modular Type)	CPL/ Legrand/ ABB/ Anchor
13	Miscellaneous Items	
	Lightning Protection Unit	Erico/ Pheonix/ INDELEC
	Relays	L&T/ ABB/ Siemens/ BCH
	Contractors	L&T/ GE Power/ BCH/ Siemens/ ABB
	Changeover switch	C&S/ Havells/ L&T/ HPL
	KWH, PF, Frequency meter	BHEL/ AE/ Havells/ L&T/ ALSTOM
	Push Buttons	L&T/ Siemens
	Timers	L&T/ Legrand/ Schneider/ Siemens/ GE
	Timer Switch	L&T/ Legrand/ Schneider/ Siemens/ GE
14	Networking	
	Switches	Brocade/ Cisco/ Digi-Link/ 3Com/ Nortel/ Foundry/ D-Link
	Patch Panel, Patch cord and I/o	Digi-Link / Tyco(AMP) / Schneider/ D-Link
	Cable	Digilink/ Clipser/ National/ Polycab/ Lapp/ Finolex
	Racks	ComRack / HCL / ValRack / APW President

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	Light fittings
	WIPRO MAKE – Immaculate series - 600 mm x 600 mm – 36 W - CRCO10R036HP57. (or equivalent make)
	WIPRO MAKE – Halo make – 6W - CRDL11R008HP57. (or equivalent make)
	WIPRO MAKE – Halo make – 22W - CRDL11R023HP57. (or equivalent make)
	PHILIPS MAKE – Smart Glow – 600 mm x 600 mm - 37W. (or equivalent make)
	PHILIPS MAKE – Green LED – 7W and 12 W (or equivalent make)
	PHILIPS MAKE – Line Light- 28 W (or equivalent make)

Note:

[a] Where other Material are proposed to be used these should be got approved from the Architect/Bank's Engineer before execution of particular item. In case of Non- Availability of any material of specified make, the Alternative equivalent make should be used only after it is approved in writing by the Employer or the Architect. The Material shall be used in preferential Order only.

[b] Before starting of work, contractor must get all samples/make approved from Architect/Bank's authorities before using at site.

[c] Consultants/Bank's authorities reserve the right to add or delete name of any manufacturers and when required.

[d] Consultants/Bank's authorities reserve rights to select any of the specified brands mentioned above.

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GENERAL CONDITION OF CONTRACT ELECTRICAL INSTALLATION

01 GENERAL

These conditions of contract are to amplify the specification, schedule of quantities and drawings in addition to those conditions specified from time as additions or omission to those said conditions of contract.

01a "Employer" / "Owner" means - **Regional Manager (AGM), Bank of Baroda, Regional Office, P&E Dept., 4th Floor, Millenium Plaza, Nr. Upasana Circle, Wadhwan, Surendranagar - 363002** and includes the Employer's representatives, successors and assigns.

01b "Architect" their authorized nominees and representatives or such other firms / persons, as shall be nominated by the Employer.

02 ORDER OF PRECEDENCE

If any discrepancy is noticed in these conditions of contract, specification, schedule of quantities and drawings, then the Bidder at the time of filling the tender shall report and seek clarifications for the same. Suitable clarifications then shall be issued to all the concerned Bidders by way of a circular. In case none of the Bidders report such a discrepancy and the same is brought out by the contractor on award then such a discrepancy shall be overruled and the most stringent of the condition as stated above shall apply.

03 Owner, architects and Electrical consultants

Owner: - As mentioned in the special condition of contract

Architects: - As mentioned in the special condition of contract

Electrical: - As mentioned in the special condition of contract

04 SITE

The site of works is located as mentioned in the memorandum .the site for the purpose of this contract shall be the area demarcated as "site" in contract drawing.

05 INSPECTION OF SITE

The contractor shall visit the site before tendering and get acquainted with the conditions at site, the contractor shall be deemed to have included in his tender rates, allowances for all preliminary work connected with the work and all other conditions that effect the work.

06 SCOPE OF WORK

The work to be carried out under this contract comprises of the internal and external Electrical Installation for the works as mentioned in the memorandum. The contractor shall carryout and completes the said work under this contract in every respect in conformity with the current rules and regulations of the local electrical authority, the Indian standard Institution and with the directions of and to the satisfaction of the consultations. The contractor shall furnish all the labour and install all materials, appliances equipment (except those items which will be supplied by the owner to the contractor at site) necessary for the completion, and testing of the whole electrical installation as specified herein and shown on the drawings as being furnished or installed but which are necessary and customary to make compete installation with outlets for power, light, telephone conduits and other electrical systems shown on the schedule or described herein ,properly connected and in working condition. The work shall include all incidental jobs connected with electrical installation such as excavation of trenches and back filling, cutting /drilling and grouting for fixing of fixtures, equipment etc.

07 FEES, PERMITS AND TESTS

The contractor shall obtain and pay for any fees and permits required for the installation of the work .the owner shall arrange only for payment of service connection charges and any other security deposit for getting electrical connections and any other security deposit for getting electric supply On completion of the work, the contractor shall obtain and deliver to the consultants certificates of final inspection and approval by the Local Electrical Supply Authority .The consultants shall have full powers to require the materials or work to be tested

Bidders Signature with Stamp and date

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by an independent agency at the Electrical Contractor's expense in order to prove their soundness and adequacy.

08 **DRAWINGS & SPECIFICATIONS**

The specifications and schedule of rates shall be considered as part of this contract and any work or material shown on schedule and not called for in the specifications or vice versa, shall be executed as if specifically called or in both. The drawings indicate the extent and general arrangements of the fixtures, controlling switches, wiring system etc. and are essentially diagrammatic. The drawings indicate the points of termination of conduit runs and broadly suggest the routes to be followed. The work shall be installed as indicate on the drawings however, any minor changes found essential to coordinate the installation of this work with the other trades shall be made without any additional cost to the owner, the data given herein and the drawings is as exact as could be secured, but it's complete accuracy is not guaranteed. The drawings are for guidance of the contractor and exact locations; distance levels will be governed by the building. The contractor shall examine all architectural, structural, plumbing and sanitary and electrical drawings before starting the work and report to the consultants any discrepancy which in his option appears on them and get them clarified .he shall not be entitled to any extras for omission or defects in electrical drawings or when they conflict with other work.

09 **CONDUIT LAYOUT**

Prior to the layout of the conduits, the contractor shall submit to the consultant detailed layout plans of the conduit network and get the same approved .the layout plan shall contain particulars regarding size and layout of the junction boxes provided along with routes of these conduits.

10 **SHOP DRAWING**

The contractor shall prepare and submit the consultants for his approval detailed shop drawings of distribution Boards, switch Boards, special pull boxes and other equipment to be fabricated by contractor within 30 days of signing of the contract.

11 **SITE ORDER BOOK**

To be recorded noting by the consultants/owner the contractor shall maintain a site order book at the site of works, when necessary the consultants/owner will utilize the book to issue instructions to the contractor shall follow these instructions in the execution of his work.

12 **MANUFACTURER'S INSTRUCTIONS**

Where manufacturers have furnished specific instructions, relating to the materials used in this job, covering points out specifically mentioned in these documents, these instructions should be followed in all cases.

13. **MATERIALS AND EQUIPMENTS**

All materials and equipments shall confirm to the relevant standards and shall be of the approved make and design. Unless otherwise called for only the best quality of materials and equipments shall be used .the contractor shall be responsible for the safe custody of all materials and shall insure against theft, damage by fire, earthquake etc.

A list of items of materials and equipments, together with a sample of each shall be submitted to the consultants within 30 days of the award of the contract. Any items which is proposed as a substitute shall be accompanied by all Technical Data giving sizes, particulars of materials and the manufacturer's name, at the time of the submission of

Proposed substitute the contractor shall state the credit, if any due to the owner in the event the substitution is approved .all changes and substitution shall be requested in writing and approvals obtained in writing from the consultants. Where no specific make of materials is specified, any first class product of a reputed manufacturer may be used, provided it conforms to the requirements of these specifications. The same will be accepted after the approval of consultant/owner.

14 **GUARANTEE**

At the close the work and before issue of final certificate of virtual completion by the consultants, the contractor shall furnish a written guarantee indemnifying the owner against defective materials and workmanship for a period of one year after completion. The

- contractor shall hold himself fully responsible for reinstallation or replace free of cost to the owner.
- 14a Any defective material or equipment supplied by the contractor.
- 14b Any material or equipment supplied by the owner, which is proved damaged or destroyed as a result of defective workmanship by the contractor.
- 15 **SAFETY OF MATERIAL**
The contractor shall provide proper and adequate storage facility to protect all the materials and equipment including those issued by the owner 'against damage from any cause whatsoever.
- 16 **COMPLETION CERTIFICATE**
On completion of the electrical installation a certificate shall be furnished by the contractor, counter signed by the licensed supervise, under whose direct supervision the installation was carried out. This certificate shall be in the prescribed form as required by the local supply authority. The contractor shall be responsible for getting the Electrical Installation inspected and approved by the local Authorities concerned.
- 17 **SITE ENGINEER**
The contractor shall employ a competent fully licensed, qualified full time Electrical Engineer to direct the work of electrical installation in accordance with the drawing and specifications. The foremen shall be available at all times on the site to receive instructions from the consultants in the day to day activities, throughout the duration of contract, the engineer shall correlate the progress of the work in conjunction with all relevant requirements of the supply authorities.
- 18 **SCHEDULE AND MANNER OF OPERATION**
Time being the essence of this contract, the contractor will be expected to furnish all labour and materials in sufficient quantities and at appropriate time, expedite and schedule the work as required and so manage the operation that the work will be completed with that time. In addition to providing a detailed time and progress schedule, the contractor shall submit an outlined and graphical schedule of proposed procedure to the consultants and the owner. Time of completion of work is as mentioned in the fiscal aspects.
- 19 **WORK AREA**
On no account shall the contractor allow workman, plants or materials to stray on to areas outside permitted work areas.
- 20 **ELECTRICAL PROJECT DATA**
- 20a **Power distribution**
The power distribution to the various units of the site shall be at 415 Volts, 50 Hz, 3 Phase, and 4 Wire system, with solidly earthed neutral system.
- 20b **Lighting Distribution**
The lighting distribution and small heating loads in the site and ancillary units shall be at 230 Volts, 50 Hz, 1 Phase, 2 Wire, 50hz, supply system
- 20c **Permissible variations**
The permissible variation in supply frequency and voltages shall be as per the standards and limits laid down in the relevant sections of Indian standards specifications, and shall be limited to combined variations of +/- 15%
- 20d **Equipments**
All electrical equipment covered under this tender shall have been deemed to withstand the above voltages with their permissible variations in voltage and frequencies and so as to ensure the conditions performance of the equipment.
- 21 **CLIMATE**
The site is as mentioned in the memorandum. Recorded variations in temperature and climate are as mentioned in the memorandum.
- 22 **APPROVED MATERIALS MAKE AND DRAWINGS**
- 22a The list of approved materials and makes are listed separately under Annexure of this tender. These shall be deemed to form a part of specifications of the tender. Wherever a choice of makes is indicated it will be deemed that the owner/consultants shall have the right to select the equipment in the series is deemed to form a part of specifications of the tender. Wherever

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- a choice of makes is indicated it will be deemed that the owner/consultants shall have the right to select the equipment in the series of different choice of makes offered. However, in case of non-availability or larger delivery period or otherwise, the tenderer may make a specific request to the owner /consultant towards the alternate choice. It will be then at the entire discretion of the aforesaid personnel to call upon the contractor to supply the same of alternatively.
- 22b Only certain drawings are made available to the tenderer along with this tender. The rest of the drawings are marked as reference drawings. These drawings shall be made available to the tenderer at the office of the consultant's office in Bombay.
- 22c The tenderer/bidder shall indicate clearly all other drawings; if he deems it necessary for the compliance of his offer .the tenderer/bidder then shall clearly set out the facts for including of the same in his offer. However, all such variations shall be only considered by the owner /consultants. if deemed to be absolutely necessary and if complied to the specifications at out herein or in accordance to the relevant codes of practice of Indian standard specifications and insurance tariff advisory committee regulations. Accordance to the relevant
- 22d The tenderer/bidder shall bring out clearly the equipment offered by him in his offer. This shall form the integral part of scrutiny of his offer. In general, all equipments offered shall comply to either reputed makes and /or ISI certified and tested. These shall be subject to the final approval of the owner/consultants. All relevant technical data and specifications of the Electrical equipment shall be brought out clearly in the Technical data sheets to be submitted along with the schedule of quantities.
- 23 **GENERAL CONDITIONS OF SUPPLY OF ELECTRICAL EQUIPMENTS**
- 23a The tenderer/bidder shall submit all technical data and catalogues of all relevant manufacturers he wishes to supply in his offer. However, the supply and selection of materials and make shall comply to the standards and approvals set herein only .if any deviations are noted, they shall be listed separately, the bidder at his own discretion may list out any such reasons on quality/specifications /technical data for deviating from the approved makes. These shall then be deviations shall only be made by bidder as alternate to the make and materials specified. If these are not indicated then the bidder's offer is likely to be rejected in to. However, in the case of non-availability of larger delivery period or otherwise, the tenderer may make a specific request to the owner /consultants towards the alternate choice .it will be then at the entire descriptions of the aforesaid personnel to call upon the contractor to supply the same of alternatively.
- 23b Only certain drawings are made available to the tenderer along with this tender. The rest of the drawings are marked as reference drawings. These drawings shall be made available to the tenderer at the office of the Consultants office in Surendranagar
- 23c The tenderer/bidder shall indicate clearly all other drawings, if he deems it necessary for the compliance of his offer. The tenderer/bidder then shall clearly set out the facts for including of the same in his offer. However, all such variations shall be only considered by the Owner/Consultants if deemed to be absolutely necessary and if complied to the specifications at out her in accordance to the relevant codes of Practice of Indian Standard Specifications and Insurance Tariff Advisory Committee regulations.
- 23d The tenderer/bidder shall bring out clearly the equipment offered by him in his offer. This shall form the integral part of scrutiny of his offer. These shall be subject to the final approval of the Owner/Consultants. All relevant technical data and specification of the Electrical equipment shall be brought out clearly in the Technical Data Sheets to be submitted along with the Schedule of Quantities.
- 23e The successful tenderer/bidder shall submit minimum eight sets of all equipments drawings, maintenance manuals, test certificates, guarantees of equipments etc. to the Owner, at the time of Supply.
- 24 **GENERAL CONDITIONS FOR TESTS TO BE CALLED FOR APPROVAL PURPOSE**
- 24a The successful tenderer/bidder shall carryout in the presence of Owner's Representative all such tests that are underlined in the Annexure. Such tests shall be carried out at the manufacturers or at works of the bidder or at sub works of the Bidder in a manner as underlined the said Annexure.

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- 24b The successful tenderer shall then forward all the relevant copies of Tests so performed in 8 set for the record of the Owner/ Architect.
- 24c The successful tenderer shall consider all these costs in the net unit rate under specific items in the tender in stated items in Schedule of Quantities.
- 24d The successful tenderer shall give clear 15 days notice in writing for all such tests to be carried out at relevant place of manufacture, works, sub-works etc. The cost incidental to such tests being carried out shall be borne by the successful tenderer and shall be deemed to have been included in the specific unit rate of that item. However, the cost incidental to the owners Representative making such visits for inspection only shall be borne by the owner in a manner-determined fit by the Owner.
- 24e The successful tenderer shall, however at this discretion quote separately, if so desired to such costs of such tests carried out.
- 25 **VARIATION IN TENDER QUANTITIES**
Quantities in the Schedule of work are tentative and approximate and are subject to variation to any extent. Each items rate shall be determined at the prevailing prices of such items in the Electrical market. The profits/charge shall be determined on the basis of the present tender under quotation. However, the bidder found necessary may be called upon by the Architect/Owner, to show the rate analysis for such an items in the then quote offer.
- 25a Nothing shall, however, absolve the successful tenderer from not performing such deviated items.
- 25b The Owner's Representative shall, however, prepare a Site Variation order and indicate the same to the successful tenderer. Such increase in quantities shall then be deemed to form the part of the Contract earlier executed. In the event of the successful tenderer not performing such an obligation it will be left to the entire description of the Owner alone to carry out the stated works at the rates arrived at the costs and risks of the successful tenderer.
- 25c All variations in quantities, if he shall indicate found necessary by the successful tenderer and the same to the Owner. On receipt of such a variation, the Owners Representative shall prepare the variation order, if found necessary then, within 30 days from the receipt of such a variation.
- 26 **MODE OF PAYMENTS**
The mode of payments for this contract shall be on item rate basis and shall include all quantities specified in the bill of quantities of this tender. It shall be further deemed that all variations and deviations. If specifically agreed to in writing shall also form s an extended part of this tender and shall be subject to measurements. All payments released to the successful contractor shall be subject to the first verifications of quantities on the basis of mode of measurements herein stated for the sake of clarifications the different terms stated herein after shall form the basis of mode of measurements taken with a specific purpose of determining the extent of work executed. This shall primarily form the basis of the billing of quantities for payments.
- 27a **JOB**
It shall be defined as all works specified in the detail specifications and in the bill of quantities. These shall mean all works associated with it for the specific purpose of commissioning those items. Nothing shall be deemed excluded even though specifically not brought out in the tender. It shall be basically the responsibility of the successful bidder/tenderer to understand the meaning herein contained.
- 27b **LUMP SUM**
It shall mean all works included in this item and shall not be subject to any individual items as a piece of running meter item. Everything under this unit shall be considered to mean that every item required for completing and commissioning that specific item.
- 27c **METER**
It shall mean the standard measurement unit as defined in the International Measurement Codes. These shall be the basis of unit, wherever, specified and shall not contain any tail wires, overlapped joints, wastage of cut lengths etc.
- 27d **NUMBER (NO.)**

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These shall be deemed to contain all physically measurable number of quantities executed in the course of the contract.

27e **POINTS**

Under the heading of light point wiring, power point wiring, socket/ receptacle outlets, this unit shall be applicable. The unit defined for various points applicable and defined as stated herein under: -

27f light points controlled by one switch or outlet shall be termed 'Primary point'.

Note1: - For wiring to light points shall also include wiring from distribution board to individual switchboard to light point, circuit wiring including single pole 5A switches, switch box, hardware, conduit fixing accessories, screws, and terminations in ceiling rose/slant holders/ angle lamp holder as called for in the schedule of quantities.

Note2: - For Group wiring controlled by 1 No. Single pole switch of 5/15 Amps rated & completed as in Note 1.

Note3: - For set of points controlled by 1 No. MCB, the cost of MCB shall be considered in the MCB DB item but however wiring from Distribution Board to switch board and Individual points including all the materials as in Note1/2.

27g Fan points considered shall mean each point complete with boards, control switch, termination in ceiling rose/Junction box, flexible wiring to fan from ceiling rose, including provision of fan hook in the ceiling as 'one point' including circuit wiring.

27h 5 Amps. 3 pin socket outlets shall be considered as 'one point' and shall be deemed to contain all accessories required including circuit wiring.

27i 5 Amps. 3 pin socket outlet point as 'one point' with control switch, socket top, earth pin connections and all associated wiring from the Board including circuit wiring.

Note: -

The contractor shall give due notice to the owner/Employer and/or architects in writing whenever any work is to be buried in the earth or made in accessible later on, in order that the work may be inspected and correct dimensions taken before such burial in default where of the same shall be the option of the owner /Employer and/or architects be either opened up for measurement at the contractors expense and no allowance shall be made for such work.

28 **MODE OF CERTIFICATION AND PAYMENT**

All works executed by the successful tenderer shall be subject to joint measurement, one representative of the owner/Employer. These shall be recorded in a measurement book. The successful tenderer or his assigned representative then shall be called upon to sign the measurement book, as an indication of acceptance of the measurements. Thereafter, nothing shall herein mean to cancel/alter/differ/change the recorded measurements. on the basis of these bill of work shall be prepared.

The bill will then be sent for checking and obtaining the approval of the Architects of the owner/Employer. They shall certify the amounts billed and shall determine the amount of the bill. After deductions as recorded for billing purpose, including all pending works if any defective materials if any, income tax deducted at source etc. they shall arrive at the net amount payable to the successful contractor.

The certificate issued by the Architects thus shall from the recommended basis of payments to the contractor by the owner. The certificates issued will be in quadruplicate and one set shall be forwarded to the contractor for his personal records. The time allowed for certifying the contractor's bills by Architect is determined to be one week from the date of receipt of the running for certifying period.

The interim period of honoring the certificate is minimum 10 working days from the date of the receipt of the certified bill by the owner/Employer. No interest shall be paid/charged by the contractor for this Interim period and all further delays, without assigning any reason whatsoever by the Owner/Employer, the contractor shall be at his own liberty such an interest shall not in any event exceed per annum.

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The payment to be made to the contractor shall be made only by Cross Order Account Payee Cheque. No Demand Drafts or any other form shall be permitted or considered for payments except for tax deducted at Source (income) as per the provision of Income Tax Act 1961, as amended by section 28 of the Finance Bill, 1972. The cheques issued by the owner/employer will be from any of the several bank accounts of the owner/employer. No interest/exchange/transfer cost/demand draft charges etc /collection charges of bank shall be borne by the owner/employer. It will be the responsibility of the contractor to pay all these or such money for collection of cheque amount.

The income tax deducted at sources at the rate determined by the income tax Act for this contract shall be done from various running and final bills of the contractor, after deductions of such amounts from the bill, the owner/employer /shall issue appropriate certificates indicating the amount of tax deducted at sources of the contractor. The contractor shall indicate to the owner/employer his permanent income tax account number.

29A **SAFETY CODE**

29Aa **SCAFFOLDS**

Suitable scaffolds shall be provided for workmen for all works that cannot safely be done from the ground or from solid construction except in the case of short duration work, which can be done safely from ladders. When a ladder is used, it shall be of rigid construction made either of good quality wood or steel. The steps shall have a minimum width of 450mm and a maximum rise of 300mm. Suitable hand holds of good quality wood or steel shall be provided and the ladder shall be given an inclination not steeper than 1/4 to 1(1/4 horizontal and 1 vertical).

29Ab Scaffolding or staging more than 4mt. above the ground floor swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly bolted, braced or otherwise secured at least 1mt. above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.

29Ac Working platform gangways and stairway shall be so constructed that, they do not sag unduly or unevenly and if the height of the platform, gangway or stairway is more than 4mt. Above ground level or floor level, they shall be closely boarded and shall have adequate width and be suitably fenced as described in 29Ab .above

29Ad Every opening in the floor of a building or in a working platform shall be provided with suitable means prevent the fall of persons or materials by providing suitable fencing or railing.

29Ae Whenever there are open excavations in ground, they shall be fenced off by suitable railing and danger signals installed at night so as to prevent persons slipping into the excavations.

29Af Safe means of access shall be provided to all working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9mt. in length while the width between side rails in rung ladder shall in no case be less than 290mm for ladder up to an including 3mt. in length. For longer ladder this width shall be increased at least 20mm for each additional meter of length.

29Ag A sketch of the ladders and scaffolds proposed to be used shall be prepared and approval of the Engineer obtained prior to construction

29B **OTHER SAFETY MEASURES**

29Ba All personnel of the contractor working within the plant site shall be provided with safety helmets. All welders shall wear welding goggles while doing welding work and all metal workers shall be provided with safety gloves. Persons employed on metal cutting and grinding shall wear safety glasses on metal cutting and grinding shall wear safety glasses.

29Bb Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public.

29B1 Excavation and trenching

29B1a All trenches, 1.25 meter or more in depth, shall at all times be supplied with a stone ladder for each 30m in length or fraction thereof. The ladder shall be extended from bottoms of the

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trench to at least 1m. Above the surface of the ground. Sides of trenches, which are 1.5m. or more in depth shall be stepped back to give suitable slope or securely held by timber bracing , so as to avoided the danger of sides collapsing. The excavated material shall not be placed with 1.5m of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstance undermining or undercutting shall be done.

- 29B1b The contractor shall take all measures on the site of the work to protect the public from accidents and shall be bound to bear the expenses of defense of every suit, action or other proceeding at law that may be brought by any persons for injury sustained owing to neglect of the above precautions and to pay any such persons or which may with the consent of the contractor be paid compromise any claim by any such person.

29C **DEMOLITION**

Before any demolition work is commenced and also during the process of the work. All roads and open areas adjacent to the work site shall either be closed or suitably protected.

- 299Ca No electrical cable or apparatus, which is liable to be a source of danger over a cable or apparatus used by the operator, shall remain electrically charged.

- 29Cb All practical steps shall be taken to prevent danger to persons employed from the risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so over-loaded with debris or materials as to render if unsafe.

29D **PERSONAL SAFETY EQUIPMENTS**

- 29Da All necessary personal safety equipment as considered adequate by the Engineer should be kept available for the use of the persons employed on the site and maintained in condition suitable for immediate use and the contractor should take adequate steps to ensure proper use of equipment by those concerned.

- 29Daa Workers employed on mixing asphalted materials, cement and lime mortars shall be provided with protective footwear and protective goggles.

- 29Dab Those engaged in white washing and mixing or stacking of cement bags or any material, which is injurious to the eyes, shall be provided with protective goggles.

- 29Dac Those engaged in welding works shall be provided with welder's protective eyesight lids.

- 29Dad Stone breakers shall be provided with protective goggles and protective clothing and sated at sufficiently safe intervals.

When workers are employed in sewers and manholes, which are in use, the contractor shall ensure that the manhole covers are opened and are ventilated at least for an hour before the workers are allowed to get into manholes and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public.

The Contractor shall not employ any men below the age of 18 years and women on the work of painting with products containing lead in any form. Wherever men above the age of 18 are employed on the work of lead painting, the following precautions are to taken:

No paint containing lead products shall be used except in the form of paste or ready made paint.

Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or surface having lead paint dry rubbed and scrapped.

Overalls shall be supplied by the contractor to the workmen and adequate facilities shall be provided to enable the working painters in wash during the cessation of work.

When the work is done near any public place where there is risk of drawing all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision should be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.

29E **GENERAL**

- 29Ea All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.

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- 29Eb These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named there in by the contractor.
- 29Ec To ensure effective enforcement of the rules and regulations relating to safety precautions the arrangements made by the contractor shall be open to inspection by Labour Officer, Engineers of the Department or their representative.
- 29Ed Not withstanding the above clauses there is nothing in these to exempt the contractor from the operations of any Act or Rule or Applicable IS codes is in force in the Republic of India.
- 30 Contractor needs to submit the list of tools & tackles required for the jobs with its Make, Serial No., Year of purchase etc. The same shall be ascertained by Consultants & PMC. If the list found is insufficient Contractor needs to give an undertaking to procure the tools & tackles as required for the work.
- 31 The application for additional electricity load requirements will be signed by the owner. All co-ordination work and responsibility for getting electricity load sanction within reasonable time limit, rest on the successful contractor.
- I / We hereby declare that I / We have read and understood the above instructions, which have been issued as conditions of the contract.

WITNESS

(Signature of the Tenderer)

APPLICABLE STANDARDS

Sr. No.	IS No.	Description
1)	IS:2026-1977 IS 3639	Distributing transformers & fittings. Fittings and acc. For P.T.
2)	IS:7886 IS:660	Installation of Transformer.
3)	IS:2516-1972	Specification for AC circuit Breakers.
4)	IS:335	Insulating oil for Transformers & switch gear.
5)	IS:2705	CT for measuring and protection.
6)	IS:3155	Voltage (Potential) Transformers.
7)	IS:3236 Part II	Voltage Transformer.
8)	IS:373	Busbar arrangement and marking.
9)	IS:2099	Bushing
10)	IS:5621	Large Hollow Porcelains
11)	IS:2544	Insulators
12)	IS:2629 & 2633	Hot Dip Galvanizing
13)	IS:3842	Relays.
14)	IS:1248-1958	Meters (measuring).
15)	IS:3072-1975	Installation of Switch gears.
16)	IS:692	HV cable.
17)	IS:1255	Installation of HV cables and jointing.
18)	IS:3043	Code of practice for earthing.
19)	IS:4047-1977	HD Air breaker, Switch gears and fuses for Voltage not exceeding 1000 Volts.
20)	IS:8106-1966	Selection, installation and maintenance of fuses upto 650 Volts.
21)	IS:4237-1967	for voltage not exceeding 1000 Volts.
22)	IS:2607-1976	Air-break isolators for Voltage not exceeding 1000 Volts.
23)	IS:8623-1977	Factory built assemblies of switch gears and control gears for voltage upto and including 1000 Volts A.C. and 1200 Volts D.C.
24)	IS:375-1963	Marking and arrangement of switch gear bus bars main connectors and auxiliary wiring.
25)	IS:2147-1962	Cubical Boards.
26)	IS:8084-1972	Insulated conductor rating.
27)	IS:2675-1983	Enclosed distribution fuse boards and cutouts for Voltage not exceeding 1000 Volts.
28)	IS:8828-1978	Miniature Circuit Breaker.
29)	IS:9926-1981	Fuse wire used in re-wearable type electric fuses upto 650Volts.
30)	IS:1554 (Part I)	PVC insulated electric cables Heavy duty.
31)	IS:3961 (Part II)	Recommended current rating for cables.
32)	IS:2982	Copper conductor in insulated cables and cores.

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33)	IS:8130	:	Conductor for insulated electric cables and flexible rods.
34)	IS:3975	:	Mild steel wires, strips and tapes for armouring cables.
35)	IS:5831	:	PVC insulation and sheath of electric cables.
36)	IS:1753	:	Aluminum conductor for insulated cables.
37)	IS:4288	:	PVC insulated and PVC sheathed solid aluminum conductor cables of voltage rating not exceeding 1100 volts.
38)	IS:961	:	Recommended current rating for Cable.
39)	S:732	:	Code of practice for electrical wiring installation system Voltage not exceeding 650 Volts.
40)	IS:1646	:	Code of practice for fire safety of Buildings (general) electrical installation.
41)	IS:1653	:	Rigid steel conduits for electrical wiring.
42)	IS:2667	:	Fittings for rigid steel conduits for electrical wiring.
43)	IS:3480	:	Flexible steel conduit for electrical wiring.
44)	IS:3837	:	Accessories for rigid steel conduits for electrical wiring.
45)	IS:694	:	PVC insulated cables (wires).
46)	IS:2509	:	Rigid non-metallic conduits for electrical wiring.
47)	IS:6946	:	Flexible (playable) nonmetallic conduits for electrical installation.
48)	IS:1293	:	Three pin plugs and sockets.
49)	IS:8180	:	Conductors for insulated electrical cables and flexible codes.
50)	IS:9537-1980	:	Specification for conduit for electrical installation
51)	IS:3419	:	Accessories for non-metallic conduits for electrical wiring.
52)	IS:3854	:	Switches.
53)	IS:6538	:	Plugs.
54)	IS:2834-1954	:	Shunt Capacitors for power systems.
55)	IS:2208	:	HRC cartridge fuse and links up to 660 volts.
56)	IS:1913-1969	:	General and safety requirement for lighting fittings.
57)	IS:2944-1981	:	Code of practice for lighting public thorough fares.
58)	IS:3528	:	Waterproof electric lighting fittings.
59)	IS:3553-1966	:	Water tight electric lighting fitting.
60)	IS:1239-1958	:	Mild Steel tubular and other wrought steel pipe fitting.
63)	IS:2149-1970	:	Luminaries for street light.
64)	IS:9224	:	HRC fuses having rupturing capacity of 90 KA.
65)	IS:2312-1967	:	Exhaust Fan.
66)	IS:374-1979	:	Class I Ceiling Fan.

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NOTE : All codes and standards means the latest where not specified otherwise the installation shall generally follow the Indian Standard codes of practice or relevant British Standard Codes of Practice in the absence of corresponding Indian Standards.

PLEASE FOLLOW :

- a. Indian Electricity Act of 1910 and rules issued there under revised up to date.
- b. Special Attention should be given to Rule No. 50.
- c. Regulations for electrical equipment in building issued by The Bombay Regional Council of insurance Association of India.

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ELECTRICAL MATERIAL SPECIFICATION

DISTRIBUTION BOARDS

The scope of work shall cover supply, installation testing and commissioning of all distribution boards -

Standards :

AS PER SCHEDULE OF INDIAN STANDARDS, ATTACHED IN THE DOCUMENT.

Distribution Boards :

Distribution boards along with the controlling MCB's/Fuse or Isolator as shown shall be fixed in an M.S. Box with hinged door suitable for recessed mounting in wall. Distribution boards shall be made of 18 SWG steel sheet duly rust inhibited through a process of de-greasing, acid pickling, phosphate and powder coated to an approved color of adequate micron rating duly approved by architect/consultant.

Three phase boards shall have phase barriers and a wire channel on three sides. Neutral bars shall be solid tinned copper bars with tapped holes and chase headed screws. For 3 phase DB's, 3. Independent neutral bars shall be provided. All DB's shall be internally pre-wired using copper insulated PVC wires brought to a terminal strip of appropriate rating for outgoing feeders.

Conduit knockouts shall be provided as required/shown on drawings and the entire board shall be rendered dust and vermin proof with necessary sealing gaskets. The top and bottom side of DB should be detachable.

MCB's shall have quick make and break non - welding self wiping silver alloy contacts for 10 KA short circuit both on the manual and automatic operation. Each pole of the breaker shall be provided with inverse time thermal over load and instantaneous over current tripping elements, with trip - free mechanism. In case of multi-pole breakers, the tripping must be on all the poles and operating handle shall be common. Breakers must conform to BS 3871 with facility for locking in OFF position. Pressure clamp terminals for stranded/solid conductor insertion are acceptable up to 4 sq.mm. Aluminum or 2.5 sq.mm. Copper and for higher ratings, the terminals shall be suitably shrouded. Wherever MCB isolators are specified they are without the tripping elements.

Fuses shall be HRC link type re-wire able with necessary fuse carriers and with rating of not less than 25 MVA. Bottle type fuses are not acceptable. Fuse carrier terminals shall be suitably shrouded. Re-wireable fuse carriers shall be porcelain. HRC fuses for motor duty should be time lag type.

Distribution boards shall have HRC/re-wire able fuses as shown on the schedule and drawings. Board shall meet with the requirements of IS 2675 and marking arrangement of bus bars shall be in accordance with I.S. standards.

Bus bars shall be suitable for the incoming switch rating and sized for a temperature rise of 35° C over the ambient. Each board shall have two separate earthing terminals. Circuit diagram indicating the load distribution shall be pasted on the inside of the DB as instructed. One earthing terminal for single phase and two terminals for 3 phase DB's shall be provided with an earth strip connecting the studs and the outgoing ECU earth bar.

In the case of MCB distribution boards, the backup fuses wherever shown shall be not less than 63 A with a delayed characteristic and a minimum pre-arcing time of 0.5 sec. At 9 KA/3 KA fault current.

All outgoing feeders shall terminate on a terminal strip which in turn is interconnected to the MCB/Fuse base by means of insulated single conductor copper wires as follows :

Up to 15 A	2.5 sq.mm.	40 A	10 sq.mm.
25 A	4.0 sq.mm.	63 A	16 sq.mm.
32 A	6.0 sq.mm.		

RCCB/MCB :

The RCCB should suffices all the requirements of IS as per code IS - 12640 - 1988. The RCA should be current operated and not on line voltage.

The RCCB should ensure mainly the following functions.

Measurement of the fault current value.

Comparison of the fault current with a reference value.

The RCCB should have a torroidal transformer witch has the main conductors of primary (P - N) which check the sum of the current close to zero.

All metal parts should be inherently resistant to corrosion and treated to make them corrosion resistant.

It should be truly current operated.

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It should operate on core balance toroidal transformer.

It's accuracy should be $\pm 5\%$.

It should operate even in case of neutral failure.

It should trip at a present leakage current within 30 M.S.

It's enclosure should be as per IP 30.

It's mechanical operation life should be more than 20,000 operations.

It should provide full protection as envisaged by IE rules - 61-A, 71 - ee, 73 - ee, 1985 and also rule 50 of IE rule 1956.

It should conform to all national and international standards like IS 8828 : 1993, IS 12640 - 1988, BS 4293 - 1983, CEE 27 (International commission Rules for the approved of electrical equipment).

MEDIUM VOLTAGE CABLING

Scope:

The scope consists of Laying & testing L. T. Cable and its termination.

Standards:

AS PER SCHEDULE OF INDIAN STANDARDS; ATTACHED IN THE DOCUMENT

Cables:

All cables shall be 1100 Volt grade XLPE insulated, sheathed with or without steel armoring as specified and with an outer PVC protective sheath. Cables shall have high conductivity stranded aluminum or copper conductors and cores color coded to the Indian Standards. All cables laid up to load should be without any joint.

All cables shall be new without any kind or visible damage. The manufacturers name, insulating material, conductor size and voltage class shall be marked on the surface of the cable at every 600 mm centers.

Cable joints and termination:

Connectors:

Cable terminations shall be made with copper Heavy duty long neck copper crimping lugs only crimped type solder less lugs for all aluminum cables and stud type terminals. For copper cables copper crimped solder less lugs shall be used. Crimping shall be done with the help of hydraulically operated crimping tool. All cable lugs should be long neck type only.

Cable Glands:

Cable glands shall be of heavy duty brass single compression type as specified. Generally single compression type cable glands shall be used for indoor protected locations and double compression type shall be used for outdoor locations. Glands for classified hazardous areas shall be CMRS approved.

Ferrules:

Ferrules shall be of self sticking type and shall be employed to designate the various cores of the control cable by the terminal numbers to which the cores are connected, for ease in identification and maintenance.

Cable joints:

Kit type joint shall be done and filled with insulating compound. The joint should be for 1.1 KV grade insulation.

CONDUIT WIRING

1.0 Scope :

1.1 The scope of work shall cover supply, installation testing and commissioning of all.

2.0 Standards: As per annexure - iv

3.0 Rigid and Flexible conduits :

3.1 All PVC conduits shall be laid in open/concealed manner which are approved by F.I.A. & I.S.I. & of 25 mm. Diameter.

3.2 Flexible conduits shall be formed from a continuous length of spirally wound interlocked steel strip with a fused zinc coating on both sides. The conduits shall be terminated in brass adapters.

4.0 Accessories :

4.1 PVC conduit fittings such as bends, elbows, reducers, chase nipples, split couplings, plugs etc. shall be specifically designed and manufactured for their particular application. All conduit fittings shall conform to IS:2667-1974 and IS:3887-1966. All fitting associated with galvanized conduit shall also be galvanized.

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- 5.0 Wires :
- 5.1 All wires shall be single core multi-strand/ flexible copper or single strand Aluminum / Copper, PVC insulated as per IS:694 and shall be 660v/ 1100V grade.
- 5.2 All wires shall be color coded as follows :
- | Phase | Colour of wire |
|------------------|--------------------|
| R | Red |
| Y | Yellow |
| B | Blue |
| N | Black |
| Earth | Green (insulated) |
| Control (If any) | Grey |
| All off wires | Same as Phase wire |

5.3 Color code should be strictly used for all wiring.

Installation, commissioning and testing.
Cable marking.

For cable buried underground :

- i) Cables and protective bricks & tiles.
- ii) Installation, commissioning & testing.
- iii) Cable markers.

6.0 Switches & Sockets:

- 6.1 Switches shall be module type/ flush piano type with silver-coated contacts. Sockets shall be 3 pin with switch and plate type cover. Combination of multiple switch units and sockets should be used to minimize the switch boxes.
- 6.2 For heavy duty, metal clad sockets with M.C.B./ Isolator mounted in a galvanized steel box shall be provided.
- 7.0 Installation:
- 7.1 Conduits shall be kept at a minimum distance of 100 mm. From the pipes of other non-electrical services. And maintain minimum 300 mm distance between telephones, TV & Computer piping.
- 7.2 Separate conduits/raceways shall be used for:
1. Normal lights and 5 A 3 pin sockets on lighting circuit.
 2. Separate conduit shall be laid from D.B. to switch board or point.
 3. Power outlets - 15 A 3 pin 20 A/30 A, 2 pin scraping earth metal clad sockets.
 4. Emergency lighting.
 5. Telephones.
 6. Fire alarm system.
 7. Public address system & Music system.
 8. For all other voltages higher or lower than 230 V.
 9. T.V. Antenna.
 10. Water level guard.
 11. Computer Wiring.
 - 12.
- 7.3 Call bell wiring layout of conduits shall be generally indicated on drawings and the layout shall be supplemented and complemented by contractor on site with approval of the Engineer.
- 7.4 Wiring for short extensions to outlets in hung ceiling or to vibrating equipments, motors etc., shall be installed in flexible conduits. Otherwise rigid conduits shall be used. No flexible extension shall exceed 1.25 m.
- 7.5 Conduits run on surfaces shall be supported on metal 12 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 screws shall be with round or cheese head and of 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/pull through boxes for better appearances. No cross-over of conduits shall be allowed unless it is necessary and entire conduit installation shall be clean and neat in appearance.

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- 7.6 Conduits embedded into the walls shall be fixed by means staples at not more than 500 mm. intervals. Chases in the walls shall be neatly made and refilled after laying the conduit and brought to the finish of the wall but final finish will be done by the building contractor. The contractor shall provide wire mesh before making rough plaster.
- 7.8 Conduits buried in concrete structure shall be put in position and securely fastened to the reinforcement and got approved by the Engineer, before the 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 suitable fish wires shall be drawn in all conduits before they are embedded.
- 7.9 Inspection boxes shall be provided for periodical inspection to facilitate withdrawal and 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 more than 12 meters apart or two 90° solid bends or equal. All junction and switch boxes shall be covered by 6 mm. clear Perspex plate truly cut and fixed with cadmium plated brass screws. These junction boxes shall form part of point wiring or conduit wiring as the case may be including the cost of removing the Perspex cover for painting and re-fixing. No separate charges shall be allowed except where specially mentioned.
- 7.10 Conduits shall be free from sharp edges and burrs and the threading free from grease or oil. The entire system of conduits must be completely installed and rendered electrically continuous before the conductors are pulled in. Conduits should terminate in junction boxes of not less than 32 mm. deep.
- 7.11.1 An insulated earth wire of copper rated capacity shall be run in each conduit for entire length.
- 8.0 Lighting & Power Wiring:
- 8.1 all final branch circuits for lighting and appliances shall be single conductor/ stranded/ flexibles run inside conduits. The conduit shall be properly connected or jointed into sockets, bents, and junction boxes.
- 8.2 All circuits shall preferably be kept in a separate conduit up to the Distribution Board. No other wiring shall be bunched in the same conduit except those belonging to the same phase. Each lighting branch circuit shall not have more than ten outlets or 800 watts whichever is lower. Each conduit shall not hold more than three branch circuits of same phase.
- 8.3 Flexible cords for connection to appliances, fans and pendants shall be 650/1100V grade (three or four cores i.e with insulated neutral wire of same size) with tinned stranded copper wires, insulated, twisted and sheathed with strengthening cord. Color of sheath shall be subject to the Engineer's / Architect's approval.
- 8.4 Looping system of wiring shall be used. Wires shall not be jointed. Where joints are unavoidable, they shall be made through approved mechanical connectors. No such joints shall be made unless the length of the sub-circuit, sub-main or main is more than the length of the standard coil.
- 8.5 Control switches shall be connected in the phase conductors only. Switches shall be fixed in 3 mm. thick painted or galvanized steel boxes with cover plates as specified. Cadmium plated brass screws shall be used.
- 8.6 Power wiring shall be distinctly separate from lighting wiring. Conduits not less than 25 mm. and wires not less than 2.5 sq. mm. copper shall be used.
- 8.7 Every conductor shall be provided with identification ferrules at both ends matching the drawings.
- 9.0 Testing :
- 9.1 The entire installation shall be tested for :
- Insulation resistance.
 - Earth continuity.
 - Polarity of single pole switches.
- A test certificate shall be submitted in the Performa shown under Appendix - I.
- 10.0 Mode of measurement:
- 10.1 The definition of point wiring shall be in accordance with sketch drawing and should wiring from D.B. onwards together with all junction boxes, connectors, earth wire, fixing accessories, connection to all light fittings switches etc. as specified and shown on drawings. The point

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- rate shall include circuit wiring from distribution board to switch board and/or directly to the point. The circuit wire shall be in separate conduit. The contractor may draw maximum 2/3 circuits of the same phase in circuit mains conduit.
- 10.2 All switches sockets with boxes, earthing interconnection and plate type silver contact switch shall be inclusive in point wiring.
- 10.3 All empty conduit runs, including junction boxes fish wires etc. shall be paid on the basis of unit length. Measurements shall be along the conduit and concurrent length of sub-circuit wiring.
- 10.4 Buzzer indicator of the ways specified shall consist of indicating lamps, reset button, electromagnet, Perspex cover plate, chromium plated brass screws etc. shall be considered as on unit for measurement and payment.
- 10.5 Two way light points shall be classified according to and consist of 2 Nos. 2 way plate type switches, wiring from the 1 st 2 way switch to the 2nd 2 way switch to the first light controlled. Subsequent lights, if any, shall be measured as ordinary secondary point.

EARTHING

Scope:

The Scope of work shall cover supply of earthing stations, laying copper earth strips and connecting the power panels, DB's and switch boards.

Standards:

AS PER Make

Plate Earthing Station :

The substation earthing shall be with copper plate earthing station unless otherwise specified.

The earthing station shall be as shown on the drawing. The earth electrodes shall be 450 x 450 x 3 mm / 600 x 600 x 6 mm. Copper plate – as specified in B.O.Q. The earth resistance shall be maintained with a suitable soil treatment as shown on drawings.

The resistance of each earth station should not exceed 1 ohms.

The earth lead shall be connected to the earth plate through copper/brass bolts as shown on the drawing.

Minimum distance between two earth pits shall be 2 Mts.

All earth pits shall be minimum 1 Mt. Away from building foundation.

Pipe Earthing Station:

The earth station shall be as shown on the drawing and shall be used for equipment earth grid. The earth electrode shall be 2.5 m. long 50 mm. Diameter galvanized steel pipe. The earth resistance shall be maintained with a suitable soil treatment as shown on drawings.

The resistance of each earth station should not exceed 5 ohms.

The earth lead shall be fixed to the pipe with safety set screws. The clamps shall be permanently accessible.

Earth leads and connections:

Earth lead shall be bare copper or aluminum or galvanized steel as specified with sizes shown on drawings. At road crossings necessary Hume pipes shall be laid. Earth lead run on surface of wall or ceiling shall be fixed on saddles or wall.

The complete earthing system shall be mechanically and electrically bonded to provide an independent return path to the earth source.

Equipment Earthing:

All apparatus and equipment transmitting or utilizing power shall be earthed in the following manner. Copper earth wires shall be used unless otherwise indicated in the schedule of work and drawings.

Power transmission apparatus:

Metallic conduit shall not be accepted as an earth continuity conductor. A separate insulated/bare earth continuity conductor of size 50% of the phase conductor subject to the minimum and maximum shall be provided.

Non-metallic conduit shall have an insulated earth continuity conductor of the same size as for metallic conduit. All metal junction and switch boxes shall have an inside earth stud to which the earth conductor shall be connected. The earth conductor shall be distinctly colored (green) for easy identification.

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In the case of cable, an earth continuity conductor shall either be run outside along the cable or should form a separate insulated core of the cable.

Three Ph. Power panels and distribution boards shall have 2 distinct earth connections of the size correlated to the incoming cable size. In case of 1 Ph. DB's a single earth connection is adequate. Similarly for 3 Ph and 1 Ph isolating switches there shall be 2 and 1 earth connections respectively, sizes being correlated to the incoming cable.

Testing :

The following earth resistance values shall be measured with an approved earth meggar and recorded.

Each earthing station

Earthing system as a whole

Earth continuity conductors

Mode of measurements:

Providing earthing station complete with excavation, electrode, watering pipe, soil treatment, masonry chamber with cast iron cover etc. shall be treated as one unit of measurement.

The following items of work shall be measured and paid per unit length covering the cost of the earth wires/strips clamps, labor etc. Main equipment earthing grid and connections to the earthing stations.

Connections to the switchboard, power panels, distribution boards etc. The cost of earthing the following items shall become part of the cost of the item itself and no separate payment for earthing shall be made. Isolating switches and starters should form part of mounting frame, switch starter etc.

Light fittings - form part of installation of the light fitting.

Conduit wiring cabling - should form part of the wiring or cabling.

TELEPHONE DISTRIBUTION

This cover supply, installation, testing, commissioning of telephone system.

1) The scope of work shall cover supply, installation, commissioning and testing of :

Telephone cables

Telephone Tag Blocks

Telephone wiring in conduits

The telephone exchange and the handsets shall be supplied by the clients.

2) **Conduits:**

Conduits shall be as given below:

Indoor: medium gauge Rigid PVC conduit. If in flooring provide heavy gauge.

The conduit shall generally be as specified under section 'CONDUIT WIRING'.

3) **Cables and Wires:**

The type of cables and the services shall be as follows:

Indoor Multi pair, PVC insulated sheathed armored and sheathed.

Inside Twin core PVC insulated with conduit twisted cores.

All multi core cables and wires shall be of tinned copper conductor of not less than 0.5 mm dia and shall be color coded twisted pairs with rip cord.

The conductor resistance shall be less than 150 ohms per KM and the insulation resistance between the conductors not less than 50 mega ohms and the nominal capacitance of about 0.1 micro farad per kilometer.

Cables laid underground or locations subject to dampness and flooding shall be filled with polyethylene compound and shall have sufficient protection against moisture and water ingress.

All armoring shall be of galvanized steel wires and protected against corrosion by an outer sheath of PVC in the case of indoor cables and polyethylene in the case of outdoor cables.

Outer sheathing must be fire retarding and anti - termite.

All unarmored single core cables and inner sheath of armored cables shall be provided with rip cord.

All single pair cables for final extension to the telephone outlet box shall be unarmored tinned copper conductors of not less than 0.6 mm. Diameter and shall be drawn in conduits. All telephone outlets shall consist of 2 A 2 pair polythene connector in G.I box with 6 mm bus bar cover with bus bar edges and chromium plated brass hardware.

Tag blocks :

The telephone tag blocks shall be suitable for the multi core telephone cables and shall have two terminal blocks, cross connect type. All incoming and outgoing cables shall be terminated on separate

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IMPORTANT POINTS TO BE NOTED

- 1) Rates for **LIGHT, FAN, EX. FAN, CALL BELL, RAW POWER ETC. POINTS** includes the cost of main wires and PVC pipes from **LDB-ROW POWER DB** to **DIFFERENT SWITCHBOARDS WITH REQUIRE CIRCUITS**.
- 2) Rates for **COMPUTER POWER POINTS** include the cost of wires and PVC pipes from **UPS DB** to **COMPUTER POWER POINTS**.
- 3) Rates for **COMPUTER I/O** include the cost of **DATA** cables and PVC pipes from **SERVER SWITCH** to **COMPUTER NODES**.
- 4) Rates for **TELE POINTS** include the cost of **TELEPHONE** Wires and PVC pipes from **EPABX/CRONE BOX** to **TELE. POINTS**.
- 5) Rates for **A.C. / POWER POINTS** include the cost of wires and PVC pipes from **A.C.DB** to **DIFFERENT A.C. AND POWER POINTS WITH REQUIRE CIRCUITS**.
- 6) THE CONTRACTOR SHOULD SUBMIT THE BUILTUP SLD OF PANEL, SLD OF DIFFERENT DBS TO DIFFERENT SWITCHBOARDS WITH NUMBERING, SLD OF DATARACK TO DIFFERENT I/O POINTS WITH NUMBERING, TELE. KRONE BOX TO DIFFERENT TELE. POINTS WITH NUMBERING, ETC. AFTER EXECUTION OF THE BRANCH. - 2 SETS OF COPIES - 1 WITH LAMINATION.
- 7) THE CONTRACTOR SHOULD USE MAX. 3 CIRCUITS IN ONE CONDUIT FOR UPS & RAW POWER POINTS.
- 8) THE CONTRACTOR SHOULD USE MAX. 3 WIRES OF DATA & TELE. IN ONE CONDUIT.
- 9) EVERY CONDUIT FOR UPS , RAW POWER , DATA & TELE., POWER POINTS, AC POINTS , LIGHTING POINTS SB SHOULD BE SEPARATE.
- 10) FOR DATA & TELE. POINTS, BIG JUNCTION BOX MUST BE REQUIRED.
- 11) FOR UPS & RAW POWER POINTS, BIG/ SMALL JUNCTION BOX MUST BE REQUIRED.
- 12) EMPTY CONDUIT MUST BE LAID FOR SECURITY SYSTEM.
- 13) PVC CONDUITS MUST BE CLAMPED WITH SADDLES IN CEILING ONLY.
- 14) ELE. CONTRACTOR MUST SUBMIT CERTIFIED LOAD LIST WITH ELE. LICENSE NO. / SUPERVISOR CERTIFICATE NO.
- 15) CONTRACTOR SHOULD SUBMIT TEST REPORT.
- 16) CONTRACTOR SHOULD PRESENT EARTHING PLATES BEFORE EXCAVATION.

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TECHNICAL SPECIFICATION

The Electrical installation work shall confirm to the following I.S. Standards (latest additions), Local Supply Authorities Rules and Regulations, Indian Electricity Act & rules, National Building code and Fire Safety Norms. All equipment including cables, wires & components thereof should be manufactured & installed as per standards specified by Bureau of Indian Standards (BIS) Where such standards do not exist, then the covered items should be approved from Architects / Consultants / Clients prior to purchase & delivery to site

- 01) IS: 732 Code of Practice for Electrical wiring installation (System Voltage not exceeding 650V)
- 02) IS:1646 Code of Practice for fire safety of buildings
(General Electrical Installation)
- 03) IS:9537 PART-II 1981 Rigid steel conduits for electrical wiring.
- 04) IS:2667 Fittings for rigid steel conduits for electrical fittings.
- 05) IS:2509 Rigid non-metallic conduits for electrical installations.
- 06) IS:1293 Pin Plugs and Sockets.
- 07) IS: 694 PVC insulated cables with copper conductors for voltages up to 1100 Volts
- 08) IS:9532 Specification for conduits for Electrical Installation
- 09) IS:3854 5A & 15A Switches.
- 10) IS:3043 Earthing.
- 11) Indian Electricity Act, 1956 and Rules and Fire Insurance Regulations.
- 12) IS : 2026 Specification for power transformer----- Not applicable.
- 13) IS : 2099 Specification for high voltage porcelain bushings. ----- Not applicable
- 14) IS : 355 Specification for insulating oil. ----- Not applicable
- 15) IS : 3639 Specification for fittings and accessories for power transformer. ----- Not applicable
- 16) IS:2274 Electrical wiring installations (System voltage exceeding 650 volt)
- 17) IS :7752 Guide for improvement of power factor consumer's installations
- 18) IS :5216 Guide for safety procedures & practices in electrical work
- 19) IS:3072 Installation & maintenance of Switch gear
- 20) IS:2551 Guide for danger notice plates
- 21) IS :8923 warning symbols for dangerous voltages
- 22) IS :13947 Specification for low-voltage switchgear & Control gear
- 23) IS :1777 Industrial luminaries with metal reflectors
- 24) IS :1913 General & safety requirement of luminaries
- 25) IS :116 Circuit Breakers for AC system
- 26) IS :3427 Metal enclosed switchgear & Control gear
- 27) IS: 3837 Accessories for rigid steel conduits.
- 28) IS:4047 Heavy duty Air break switches & composite switch fuse units for voltage exceeding 100 volts.
- 29) IS :4237 General requirements for switchgears not exceeding 1000 Volts
- 30) IS :4615 Switch socket outlets
- 31) IS:159: Busbars & busbars connections
- 32) IS :415 Marking & arrangement for switchgear boards main connections & auxiliary wiring.
- 35) IS :415 Tungsten filament lamp
- 36) IS : 722 Three phase watt hour meter with MDI
- 37) IS:1248 Directing acting electrical indicating instruments
- 38) IS :1293 Three pin plugs & sockets outlets.
- 39) IS :1947 Floods lights
- 40) IS:2147 Degree of protection provided for enclosure for switchgear
- 41) IS:2418 Tubular fluorescent lamps for general lighting services
- 42) IS:2509 PVC electrical Conduits
- 43) IS 2075 Current Transformer
- 44) IS 2834 LT Capacitors
- 45) IS 3106 Code of practice for installation & maintenance of switchgear.
- 46) IS :2607 Air break isolators for voltage not exceeding 1000 Volts
- 47) IS:1753 aluminum Conductors for insulated conductor

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- 48) IS :3961 Recommended current ratings for cables
 49) IS:3480 Flexible steel conduits for electrical wiring
 50) IS:1646 Code of fire safety of building (General Electrical installation)
 51) IS:1913 General & safety requirements for electric lighting fitting.
 52) IS:1239 Mild steel tubular & other wrought steel pipe fitting
 53) IS : 6381 Specifications for construction & testing of electrical apparatus.
 54) IS: 1818 Isolator & Earthing switches
 55) IS:3106 Code of practice for selection
 56) IS:HRC Cartridge fuse unit up to 650 Volts
 57) IS:10332 Part I to Part V Specification of Luminaries

A-01 POINT WIRING:

a) **METAL CONDUITS:**

All conduit pipes shall confirm to IS 9537 PART-II 1981. Metal conduits shall be ERW black enameled of **wall thickness of 1.6 mm**, 20mm/25mm as the case may be depending upon the number of wires permitted as table-1. The conduits shall be fixed to walls/ceiling with M.S. saddles and spacers at an interval of 1 meter and on either side of bends.

All conduit accessories shall be 16 gauge & bends shall be of inspection type. All bends, couplers, threaded portions etc. shall be painted with anti-corrosive paint. Bends in the pipes shall be done with bending hickies.

All pipes shall be cleaned for sharp burrs. Switch boxes shall be of G.I. 16G/14G. The switch boxes shall be concealed as per site requirement & as per Architect's/Consultant's Instructions.

Point shall be controlled with 6A switch or directly from DB as specified in schedule of quantities. Where plate type switches are not specified the switch-board shall have 3mm thick hylum sheet on which switches shall be mounted.

The wiring shall be carried out with multi stranded PVC insulated copper wires of 1.5 Sq. mm. 2 Nos. (Phase & Neutral) & 2.5 Sq.mm (Earth). In all cases, the earth shall be of green color and neutral shall be black color. All wires used shall be of **110V** grade. The point wiring shall be inclusive of circuit wiring from Distribution Board to the switchboard unless otherwise stated in schedule of quantities. The circuit wiring shall be with 3 Nos. of 2.5 Sq.mm PVC insulated multi stranded copper conductors color coded as detailed above. The rate shall also be inclusive of any chasing as directed by the Architects /Consultant / Client's Engineer to conceal the drops and finishing the same.

In case of group control directly from Distribution Board, the primary point shall be from D.B. to the first point and secondary point from first point to the next point looped. The point shall terminate into **three way junction box. (In case of wiring in PVC conduit the 3 plate-ceiling rose to be utilized)**

While laying the conduits in the slab before casting the slab, all drops shall be laid accurately to fall in position of the switchboard. Junction boxes shall be sand filled. All joints shall be airtight. Conduits shall be fastened to the re-enforcement properly so that the conduits do not get dislocated while casting the slab. All conduits shall have 18 swg fish wire.

b) **PVC CONDUITS:**

The PVC Conduits shall confirm to latest **IS:2509** and shall be of wall thickness of 2mm. The conduits shall be joined with PVC adhesive at Joints. The Conduits shall be fixed to walls/ceilings with GI, Spacers and Saddles at an interval of 60cms & on either side of bends. The number of wires drawn in the conduits shall be as per table 1. The point wiring shall be controlled as in (a) above. The wiring shall be done with 2 Nos. of 1.5 Sq. mm (Phase & Neutral). & 2.5 Sq.mm (earth) PVC Insulated, copper conductors, multi stranded and color coded with green as earth and black neutral.

The circuit wiring shall be with 3 Nos. of 2.5 Sq. mm PVC insulated, copper conductors, multi stranded from distribution board to switch board and the rate shall be included in the point wiring unless otherwise stated in the schedule of quantities. All other details shall be as for metal conduits.

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TABLE :1

Size of Wires (Made to Is 694)	Capacity of conduit	
	20mm dia	25mm dia
1.5 sqmm	7	15
2.5 sqmm	5	11
4.0 sqmm	4	8
6.0 sqmm	3	6
10.0 sqmm	2	4

A.02. DISTRIBUTION BOARDS:

This specification covers the design, manufacture, assembly, testing at works, supply, installation and commissioning of distribution boards at site.

The system and accessories shall be complete in all respects and any device not included specifically in this specification, but essential for proper operation of the equipment and also to meet statutory requirements shall be deemed to be within the scope of the specification whether it is mentioned in the Technical Specification or not.

If the vendor finds that it is required to undertake any work which is not sufficiently defined in this specification, or discovers that this specification conflicts with any other codes, standards and regulations which shall be required to comply, the same shall be clarified in writing from the Owner/Consultant before undertaking work involved for avoiding the delay.

A.2.1 CONSTRUCTION

The distribution boards shall be fabricated out of 16 SWG sheet steel metal, totally enclosed dust damp and vermin proof **IP52**, dead front, hinged door type of bolted/welded construction suitable for wall or floor mounting.

The board frames shall be fabricated using suitable mild steel structural sections or pressed & shaped cold rolled sheet steel of thickness not less than 2.0mm. The frames shall be enclosed by cold rolled sheet steel of thickness not less than 1.65mm, smoothly finished, leveled & free from flaws. Doors & covers shall be made of cold rolled sheet steel of thickness not less than 1.65mm. Stiffeners shall be provided wherever necessary.

A.2.2 BUSBARS

The busbar shall be air insulated and made up of high conductivity high strength aluminum or copper bus bars liberally sized with high safety factor for the required rating. The current density shall not exceed 0.8 Amps per sqmm & 1.25 Amps per sqmm for copper & aluminum respectively. The neutral bus shall be rated for capacity of phase bus unless otherwise stated in schedule of quantities/drawings. However, the minimum size of bars shall be 25mm X 3mm. The neutral busbars shall have adequate number of terminals for all number of outgoing single phase circuits and the holes shall be suitable for multi-strand wires. In the same way suitable earth bus shall be provided inside each distribution board for earthing of the lighting/power circuits and also earthing of distribution board. In case of 3 Phase DB used for single phase outgoing, three independent neutral bars shall be provided.

A.2.3 MINIATURE CIRCUIT BREAKERS

Miniature circuit breakers (MCB) shall be of heat resistant, moulded type designed, manufactured and tested as per IS-8828.

The MCBs shall have inverse tripping characteristic against overloads and instantaneous trip against short circuits. The MCB shall be of fault current limiting device also.

The MCB shall be clip on type to the DIN rail. The ON & OFF positions of the switch handle shall be clearly marked. The MCB shall be suitable for operating in an ambient temperature of 45 deg C. without derating. The MCB shall be suitable for 415V, 3 phases, 50 Hz systems with a fault level of 9-10 KA (RMS) symmetrical. The terminals of MCBs shall be suitable for use with eye lugs. The 4 pole, 3 pole and 2 poles MCBs knobs shall be trunked with adequate strength tandem pin.

Each distribution board shall have individual hinged/bolted gasketed doors with suitable screws. Removable conduit entry plates shall be provided at top and bottom of the DB to

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facilitate drilling the conduit holes at site to suit individual requirements or knock out shall be provided.

Protective insulated cover plate shall be provided inside the panel to shroud all the live parts. Only the operating handle of the switch and the operating knob of the miniature circuit breakers shall be projecting outside the cover plate in case of ordinary DB and shall be inside the front door in case of dust tight DB. The unused outgoing gap of DB shall be suitably blanked with PVC plates at no extra cost. The incoming switch terminal should be suitably shrouded to avoid accidental contact. Each outgoing in the MCB DB shall have shrouding between Phases. The distribution board shall be factory wired and assembled and local fabricated DB shall not be accepted.

If the Distribution Board shall be triple pole and neutral, four pole isolator shall be provided as incomer and for single phase and neutral Distribution Board; double pole isolator shall be provided. Earth leakage circuit breaker to be provided wherever called for.

Suitable label shall be provided to mark the circuit number of outgoings circuits.

A.2.4 EARTHING

The DB's shall be provided with two numbers brass earthing terminals with suitable nuts, washers, etc., for connecting to earth bus outside the DB. In case of flush mounting DB, these shall be provided inside the DB.

A.2.5 PAINTING

The DB sheet steel surface shall be pre treated through seven tank process chemically cleaned to remove scale etc., rinsed dried and shall be finished with powder coated paint over two coats of red oxide primer.

A.2.6 TESTS

Following factory routine tests shall be performed on the equipment before dispatch. The test results shall be sent along with the supply of DB.

01. Mechanical Operation
02. HV test for one minute
03. Insulation resistance at 500 volt DC before/after one minute HV test.

A.2.7 INSTALLATION

The board shall be fixed at accessible heights. The boards shall be solidly fixed to walls/partitions, concealed or open as directed. All connections inside the distribution board shall be neatly arranged and tied with PVC strings. The distribution boards shall be suitably earthed. Legend shall be written on D.B. with paint for identification of D.B. & Circuits.

A-03 CABLES:

Cables shall confirm to latest **IS 1554-1988**. Cables shall be heavy duty, armoured, PVC insulated & PVC sheathed 1.1 KV grade aluminum or copper. Cable shall be fixed with G.I spacers & saddles at an interval of 45cms and on every side of bends. The bending radii of cables shall be as per manufacturer's instructions and in no case it shall be less than 12 times the overall diameter of the cable. Cable shall be so installed that they are not subject to mechanical damage. If there is a bend in the cable enclosed in a conduit, care has to be taken to prevent undue compression of insulation. This applies also to the top of vertical runs of longer than 5 meters where there could be compression caused by the weight of unsupported vertical cables. Cables may rest without fixing in horizontal runs or ducts or trucking's. The cables run in cable trays shall be fixed with cable ties at intervals of not more than 30cms. No joints in the cables shall be permitted unless the cables exceed the standard drum length. Joints if so necessary shall be located in accessible position. Termination of the cables shall be done with heavy duty copper/ Aluminum lugs and brass cable glands.

Cables laid underground shall be to a minimum depth of 750mm. It shall be ensured that cables laid underground are free of water lines, sewage lines etc. The trenches shall be at least 30cm wide & filled with 10cms thick of layer of dry sand on which the cable shall be laid. Further, 10cms thick **river sand** layer shall be put on the cable over which a brick layer shall be kept. The trench shall than be back filled with soft earth, rammed and consolidated to original level. Cable route indicators made up of **CI shall** be laid at intervals of 20 meters and at all change in directions.

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For cables laid on walls aluminum tags shall be fixed showing the size of the cable and the feeder number of the cable. These tags shall be at each end and at least one or two places at intermediate positions.

The mode of measurement of the cables shall be as follows:

01. For top entry of the cable, the measurement shall be taken up to the bottom of that switch- gear.
02. For bottom entry of the cable, the measurement shall be taken up to the top of that switch board.
03. No wastage shall be allowed for measurements.

A-04 SWITCH FUSE UNITS:

Switch Fuse Units shall be of sheet metal or iron clad with HRC fuses as described in schedule of quantities. **SFUs complies to IS:4047.** The unit shall be of robust construction of standard specified make, design to withstand adverse working conditions. It shall have quick break type mechanism with ON and OFF position indicators of the operating handle. The switch shall be interlocked so that the unit cannot be opened in ON condition. The interior shall be so arranged that clearances from live parts are adequate and shrouded. Manufacturer's instructions shall be followed for installation of switch fuse units. The switch shall be solidly earthed. The switch shall be mounted on walls on angle iron support grouted to wall. The supports shall be treated for rust treatment & painted with 2 coats of synthetic enamel paint. The height of the switch-board shall be such that it is accessible for operation & maintenance.

A-05 POWER PANELS:

The Power panels shall be fabricated from MS sheet steel 16 gauge and shall be of compartmental design. The main supporting framework shall be of angle iron or of heavier gauge sheet metal. The panel shall be self-supporting design, dust and vermin proof, dead front and fully inter locked with isolating switches. The panel-mounted switches shall have Interlock defeat for testing and inspection.

The board frames shall be fabricated using suitable mild steel structural sections or pressed & shaped cold rolled sheet steel of thickness not less than 2.0mm. The frames shall be enclosed by cold rolled sheet steel of thickness not less than 1.65 mm, smoothly finished, leveled & free from flaws. Doors & covers shall be made of cold rolled sheet steel of thickness not less than 1.65 mm. Stiffeners shall be provided wherever necessary.

The panel shall be powder coated comprising of seven tank pre treatment, degreasing and de-scaling in sulphuric acid etc & shall be finished with powder coated paint over two coats of red oxide primer powder coating synthetic enamel paint for smooth finish. The color of paint shall be battle-ship grey or as directed.

The panel shall be designed so as to facilitate inspection, cleaning and repairs. The clearance between phase to phase and phase to earth or metal parts shall be as per relevant IS standards. The metering instruments like volt meter, ammeter etc. shall be flush mounted and shall be of 1.0 class accuracy and of standard design size shall be 96 mm x 96. All indication lamps shall be of LED type.

The busbars shall be air insulated and made up of high conductivity, electrolytic aluminum complying with the requirement of IS 5082:1981 and shall have a fault withstand capacity of 50 KA/1 Sec. The current density shall not exceed 0.8 amp per sqmm & 1.25 amp per sqmm for copper & aluminum respectively All busbars shall be fully screened by means of PVC sleeves in their own compartment running throughout the length of the Panel. Suitable allowance should be made for bus expansion.

The panel shall have separate cable ally and a bus bar chamber. The bus bars shall be rigid hard drawn tinned electrolytic copper wherever specified & sleeved with heat shrinkable sleeves. The current density shall not exceed 1.25 Amps per Sq.mm and the neutral bus shall be rated for capacity of phase bus unless otherwise stated in schedule of quantities/ drawings. However, the minimum size of bars shall be 25mm X 3mm. Minimum electrical clearance shall be maintained between phases, neutral and body as per IS 4237:1982. All Incoming / outgoing feeders shall have neutral link of appropriate capacity in the compartment of switching device.

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Wiring inside the switchgear shall be carried out with 1100 V grade, single core PVC insulated, stranded copper conductor wires.

Minimum size of conductor for power circuit is 4.0 Sq.mm.

Minimum size of conductor for control circuit is 1.5 Sq.mm.

The size for CT circuit wiring should be of 2.5 Sq.mm.

The Panel shall be tested at site before commissioning. The Panel drawings shall be got first approved from Consultants before taking up for fabrication.

All wiring inside the panel shall be done with switchboard copper conductors/cables solid copper links. The insulators for supporting the Bus-Bars shall be epoxy based cast resin. All hinged doors shall be earthed with flexible braided copper earth. An earth bus of copper shall be fixed along the length of the panel at the lower section. Adequate ventilation for the panel shall be provided. Logic diagram of operation of switches shall be painted on the panel. The name plates for each feeder shall be of engraved design and pasted to the respective switch gear. The letters shall not be less than 10mm size for individual feeders and not less than 18 mm for the main feeders. All switchgear to be mounted in the panel shall be as per schedule of quantities.

A-5.1 **General Constructional Features**

Switchgear shall be

A-5-1a Indoor, floor mounting, modular type (wall mounted wherever specified ,instructed)

A-5-1b Provided with protection of IP52

A-5-1c Vermin proof construction

A-5-1d Provided with metal sill frame of structural steel channel section properly drilled for mounting the switchgear along with necessary mounting hardware.

A-5-1e Provided with gaskets all round the perimeter of removable covers & door

A-5-1f No equipment needing manual operation shall be located less than 250mm above ground level.

A-5.2 **MCCBs**

MCCB shall in general conform to IS: 13947 part-2, All MCCB shall be of P2 duty.

MCCB shall be flush mounted on the AC/DC distribution boards.

MCCBs shall be provided with thermo-magnetic type release for over current and short circuit protection. The setting of the thermal release shall be adjustable between 75% to 100% of the rated current. The magnetic release setting shall be adjustable between 300% to 600% of the thermal release setting at site.

MCCBs shall also have 2 NO. and 2NC auxiliary contact either built-in or using auxiliary switch for purchaser's use

MCCBs shall be manually operated. The operating handle should give a clear trip indication.

Miniature circuit breaker (MCB) shall conform to IEC: 898-1987 and IS: 8828.

The MCCBs shall comprise single units of triple pole construction & shall be rated for 500 Volts AC.

All live parts shall be totally enclosed in a heat resistant moulded insulating material housing. Operating mechanism shall be quick make, quick break & trip free type.

A-5.3 **INSTRUMENT TRANSFORMERS**

All CTs will be dry type. All current and voltage transformers shall be completely encapsulated cast resin insulated type suitable for continuous operation at the temperature prevailing inside the switchgear enclosure, when the switchboard is operating at its rated condition and the outside ambient temperature is 50C.

All instrument transformers shall be able to withstand the thermal and mechanical stresses resulting from the maximum short circuit and momentary current ratings of the associated switchgear.

All instrument transformers shall have clear indelible polarity markings. All secondary terminals shall be wired to a separate terminal on an accessible terminal block where star-point formation and earthing shall be done.

All CTs utilized in metering circuit will be of class 1.0 & burden of 10 VA minimum wherever not specified.

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All CTs utilized in protection circuit will be of class 5P10 & burden of 10 VA minimum wherever not specified.

All CTs shall be earthed through a separate earth link.

A-06 EARTH PITS

The Earthing station shall be done as per **latest IS 3043 (1987)** and as per drawing no. E1. The earth pit shall be at least 2.5 Mtrs. deep with GI Plate electrode. The GI plate electrode shall be hot dipped of 600mm X 600mm X 6mm thick. The size for copper electrode shall be 600 X 600 X 3mm thick, An alternate layer of salt and charcoal shall be filled up to 200mm above the top of the electrode. The electrode shall be connected with 25mm X 6mm thick GI Flat which shall be terminated with nuts and bolts into brick masonry chamber on top. The brick masonry chamber shall be of size 300mm X 300mm X 300mm deep which will carry the funneling arrangement for watering. A GI Flat of 25mm X 3mm from brick masonry chamber to the switch gear inside the switch room shall be laid underground and/or fixed to walls and the rate for this shall be paid as a separate item.

A.07 EARTHING SYSTEM

All the main earth conductor above the ground level shall be painted with two coats of enamel paint. The following colour code has to be followed:

- | | | |
|------------------------------------|---|---|
| (a) Main body earth bus | - | Green colour |
| (b) Main neutral earth bus | - | Black colour |
| (c) Lightning protection earth bus | - | Red colour or as preferred by Owner/Consultant. |

Earthing system of equipment earthing, neutral earthing and lightning protection earthing should not be mixed together above the ground. These systems/connections shall be tested in accordance with IS 3043-1987. Earth resistance of the individual system shall be measured after connecting all the electrodes to the bus and the combined value shall be minimum of **1 ohm (One ohm)**.

A-08 ELECTRICAL FIXTURES

All lighting fittings shall be complete with accessories & fixtures necessary for installation whether so detailed under item description or not.

Fixture housing, frame or canopy shall provide a suitable cover for the fixture outlet box or fixture opening.

Fixtures shall be completely wired & constructed to comply with the regulations & standards for electrical lighting fixtures, unless otherwise specified. Fixtures shall bear manufacturer's name & factory inspection label unless otherwise approved.

Wiring within the fixtures & for connection to the branch circuit wiring shall be not less than 1.5 Sq.mm copper for 250 Volt applications. Wire insulation shall suit the temperature conditions inside.

Metal used in lighting fixtures shall be not less than 22 SWG. Or heavier if so required to comply with specification of standards. Non-reflective surfaces & trim shall be finished in a baked enamel paint.

Fixtures with visible frames shall have concealed hinges & catches. Recessed fixtures shall be constructed as to fit into an Armstrong /Gypsum/POP false ceiling.

Detail catalogue or, if so required by the architects, sample fixtures shall be submitted for approval to the Architect /Consultants. Shop drawings for non-standard fixtures shall be submitted for approval to the Architects.

A-8.1 INSTALLATION OF ELECTRIC FITTINGS:

Fixtures shall be installed at mounting heights as detailed on the drawings or as instructed on site by the Architect/Consultants.

Fixtures or fixtures outlets boxes shall be provided with hangers to adequately support the complete weight of the fixture. Design of hangers & methods of fastening shall be submitted to the Architects for approval prior to execution at site.

All fluorescent lighting fixtures shall be fixed with down rods or on round blocks as stated in schedule of quantities. The down rods shall be 20 mm dia and 1.6mm wall thickness of ERW black enameled MS. The down rods shall be fixed with ball and socket joints check nuts etc. Lighting fixtures shall be mounted on round block in case of wall mounting.

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Fixtures like down lighter, spot lights etc. shall be fixed to the false ceilings as per manufacturer's recommendations.

A-09 **POWER FACTOR CORRECTION PANEL:**

The power factor correction panel shall be fabricated from sheet steel & powder coated. The panel shall be compartmentalized with tinned copper bus bars TPN as described for power panels. The capacitor housing should be well ventilated.

The power capacitors shall be APP type, low loss, 3 phase, delta connected & self discharged type.

The power factor control shall be done by automatic power factor control relay for controlling the power factor within the set limits by auto switching of required capacitor Banks. The required Capacity /P.F Banks shall be as per schedule of quantities. The P.F. shall be automatically corrected to near Unity.

The C.T. ratio given in the Schedule/diagram is indicative. The same shall be matched for correct operation depending upon the operating load. The relay shall be totally microprocessor based for setting the desired target power factor band. The APFC relay shall have indications like power ON, low current etc & shall be of required stages as per schedule of quantities. The P.F Panel shall have Auto Manual switching facility.

The general specification shall be as follows:

- a. System supplies voltage 415 volts.
- b. C.T. secondary rating 5 A, 5 VA Burden.
- c. Output switching capacity 5A at 230 V AC & 2A at 440 V AC, Operating temperature, 10 degree Centigrade to 50 degree Centigrade. Accuracy better than 1%.
- d. Low current release 10% of full rated C.T.
- e. Switching time between stages 4 to 6 seconds.
- f. Range of indications of PF 0.5 lag to 0.5 lead digital.
- g. Display LED indications.
- h. Range of target P.F. setting 0.90 to 0.99.
- i. Switch for auto/manual operation.
- j. Indications for selection of stages.
- k. Selection of dead band.

For constructional details refer the specifications mentioned at A.05 the same are applicable for APFC panel.

A-10 **TESTING OF ELECTRICAL INSULATION:**

The following tests shall be carried out after completion of the electrical insulation work.

- 1) Insulation Resistance Test.
- 2) Polarity Test of Switches.
- 3) Earth Continuity Test.

01 **Insulation Resistance Test:** The insulation resistance shall be measured by applying between earth and whole system of conductors or any section thereof with all fuses in place and all switches closed (except in earthed concentric wiring) all lamps in position & both poles electrically connected together, or direct current pressure of not less than twice the working pressure, provided that it need not exceed 500 volts for medium voltage circuits, be applied. Where the supply is derived from 3 wire DC or Poly phase A.C. System, the neutral pole of which is connected to the earth either direct or through added resistance, the working pressure shall be deemed to be that which is maintained between the phase conductor and the neutral. The insulation resistance measured in mega ohms between all conductors connected to one pole of phase conductor of the supply and all the other conductors and switches in off position its value shall be not less than as specified below:

The insulation resistance measured in mega ohms shall not be less than 50 mega ohms divided by the number of outlets or when PVC insulated cables are used for wiring, 12.5 mega ohms divided by the outlet subject to a minimum value of 1 mega ohm.

A preliminary and similar test may be made before lamps etc. are installed and in this event the insulation resistance to earth shall not be less than 100 mega ohms divided by

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the number of outlets or when PVC insulated cables are used 25 mega ohms divided by the number of outlets subject to a minimum of 1 mega ohm.

- 02 **Polarity Test of Switches:** In a 2 wire system a test shall be made to verify that all switches in every circuit are fitted in the same conductor throughout and such conductors shall be labeled or marked for connection to the phase conductor or to the non earthed conductor of supply. In a 3 wire or 4 wire insulation a test shall be made to verify that every non linked single pole switch is fitted in a conductor which is labeled or marked to one of the phase conductor of supply.
- 03 **Earth Continuity Test:** The Earth Continuity Conductor including metal conduits and metallic envelopes of cables in all cases shall be tested for electric continuity and electrical resistance of the same along with the earthing lead but excluding any added resistance or earth leakage circuit breaker measured from connection with earth electrode to any point in the earth continuity conductor in the completed insulation shall not exceed 1 ohm.

TECHNICAL SPECIFICATION OF TESTING AND COMMISSIONING

The scope of work for testing and commissioning of the total installation shall be for the capital equipments like transformers, switchgears, cables etc., and also for the associated equipments like relays CTs, PTs, etc.

The scope of work for testing and commissioning of electrical equipment for the above shall include but not be limited to the following:

- Providing sufficient number of experienced Engineers, Supervisors, Electricians so that the installation can be commissioned in stipulated time.
- All the instruments, tools and tackles required for carrying out the testing and commissioning shall be provided by the bidder.
- The testing of electrical equipment shall be carried out as per the relevant Indian Standards/Code or Practices/Manufacturer's instructions.
- Cleaning of electrical equipment, contacts cleaning and greasing etc. All the equipment and material required for above shall be supplied by the bidder.
- Correcting the panel/equipment wiring for proper functioning of the schemes required / called for.
- Installation and wiring of additional equipment on panels like auxiliary contactors, timers, etc., which may be additionally required for proper functioning of the schemes.
- Checking of equipment earthing and system earthing as a whole.
- Testing of all the cables.
- Co-ordination with other contractors for testing and commissioning of interface cables.

TESTS TO BE CONDUCTED:

- All tests shall be performed in the presence of the bidder and customer/consultant. For all types of visual inspections, checking, pre-commissioning, commissioning test and acceptance tests, IS Code to be followed for the tests given therein in addition to the instructions in this technical specification. The intention of giving the few test procedures, described below, is to provide a guideline for the bidder. However, bidder shall not restrict themselves in carrying out only the tests described in this document.
- Bidder shall submit their proposed test procedures for approval and shall not commence testing such approval is given.
- Bidder shall check and test all electrical equipment and systems installed and supplied them, including equipment supplied by the Owner.
- Bidder shall supply all necessary test equipment and personnel both craft and supervisory to carry out the work without danger to personnel or damage to equipment.
- Bidder shall ensure that no tests are applied which may stress equipment above the limits for field testing recommended by the manufacturer. Bidder shall be responsible for any damage to personnel or equipment resulting from improper test procedure.
- All defective materials furnished by the bidder and defects due to poor workmanship revealed through field testing, shall be corrected at bidder expense without affecting the completion of the project.

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- 07 Client/Consultant reserves the right to interpret and approve all test results prior to energization of circuits or apparatus.
- 08 Bidder shall visually inspect all equipment for defects immediately upon arrival at site including those supplied by the Owner.
- 09 Relay coordination chart and final setting before/commissioning.

MECHANICAL CHECKOUT

After installation, but before any power supply is connected, the contractor shall make a complete mechanical check of all installed electrical equipment and systems. This shall include but not to be restricted to the following:

- a) Check equipment numbers against drawings/documents.
- b) Check name plates of transformers, switchgears, etc., for conformity with the data given in the drawings and specifications.
- c) Check all equipment bus joints and connections for tightness.
- d) Check all cable and wire connections for tightness.
- e) Check phase sequence.
- f) Check all bushings/insulators to ensure they are clean and un-chipped. Inspect tank cooling tubes and radiators for leaks.
- g) Check silica gel for dryness where breathers are supplied. If the colour of the silica gel is pink, remove from the breather and dry out following manufacturer's recommended procedure, until a light blue colour is restored and replace it.
- h) Check valve in the connecting pipe between the conservator and transformer tank to ensure that valve is in 'open' position.
- i) Check interlocking on access doors for mechanical and electrical safety. Check that key and electrical interlocking system functional and accomplish their purpose.
- j) Check all plug in contacts for alignment and 'grip'.
- k) Check all contactors for free manual operation.
- l) Remove all locking devices installed for shipment.
- m) Check all the coils for their continuity and proper voltages.
- n) Check the arc chutes, arcing horns, main contacts of breakers are clean and undamaged. Check the carriages ride smoothly and reliably on their guide rails. Check for proper operation of circuit breaker operation mechanism, controls and adjustments.
- o) Check the fuses are correctly rated and installed are clear, undamaged and fit for operation.
- p) Check all relays and instruments are clean, correctly connected and undamaged. Check test plugs are installed in all protective relays. Check relays for free manual operation, if applicable.
- q) Check instrument transformer ratings against drawings. Check for proper installation and connection.
- r) Check interlock and auxiliary devices and the operation of the circuit breaker with the protection relay circuit.
- s) Clean the equipment by vacuum cleaner before energizing.

EARTHING:

- a) Bidder shall test the buried earth grid and shall record the values.
- b) Bidder shall inspect and test all earthing work carried out by him, including all interconnections between ground loops, grounding of equipment and ensure all connections are permanent and that the earthing circuit is continuous.
- c) Bidder shall megger and record earth resistance at various earth connection points.

SWITCHGEAR:

- a) Switchgears rated 433 volts or more shall be tested with a 1000 volts megger.
- b) Auxiliary wiring rated less than 415 volts shall be tested with a 500 volts megger.
- c) All protective relays shall be tested at sufficient points to establish their proper functioning in accordance with the manufacturer's specification and curves.
- d) Operation checks and functional checks on all switchgear panels.
- e) For current transformers insulation test, polarity test, ratio test, secondary injection test, operating current check, service setting in consultation with Client/Consultant.

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- f) For potential transformers, ratio test, insulation test, etc.
- g) Contact resistance for breaker contacts between male and female.

WIRES AND CABLES:

- a) Continuity testing of all cables.
- b) Wires and cables rated 433 volts or more shall be tested with a 1000 volts megger. Cables rated less than 433 volts shall be tested with a 500 volts megger.
- c) No wires or cable having resistance between conductors or between conductors and ground of less than 100 meg ohm shall be accepted.

FUNCTIONAL TESTING:

- a) All circuit breakers, contactors, relays, remote devices, etc., shall be checked for its operations.

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GENERAL CONDITION OF AIR CONDITIONING WORK CONTRACT

01. DEFINITIONS

In the contract (as here-in-before defined) the following words and expressions shall have the meanings hereby assigned to them except where the contract otherwise requires:

"Employer/ Owner/ Client" means by **BANK OF BARODA**, who have called for tenders for the air-conditioning works and who will employ the Contractor and the legal successors in title to the Employer.

"Employer's Representative" means person or persons, firm or company appointed from time to time by the Employer to act as his representative for purpose of the Contract and notified in writing to the Contractor and includes changes in their appointment made by the Employer and so notified.

"Architect / Designer" means "Architect" and their authorized nominees and representatives or such other firms / persons, as shall be nominated by the Employer.

"Consultant/ Engineer-in-Charge" means **AIR CONDITIONING** Consultant "Architect". Appointed by the Architect & notified in writing to the Contractor to act as Designer for purposes of the contract and includes any changes in appointment made by the architect and so notified.

"Designer's Representative" means any resident designer or assistant of the designer or any clerk-of-works appointed from time to time by the Employer or the designer to perform the duties set forth in Clause hereof whose authority shall be notified in writing to the Contractor by the Designer.

"Contractor" means the person, firm or company whose tender has been accepted by the Employer and includes Contractor's personal representatives, successors & permitted assigns approved in writing by the Employer.

"Works" means the work to be executed in accordance with the Contract and site shall mean the lands and place shown in the drawings, on which the works are to be executed and any other lands of places provided by the employer or consultants for the purpose of the contract.

"Contract" means conditions of contract, specifications, drawings, priced bill of quantities, schedule of rates and prices (if any), Tender and the Contract Agreement, and all sections of these documents, read together.

"Contract Price" means the sum named in the Tender subject to such additions thereto or deductions there from as may be made under the provisions hereinafter contained.

"Temporary Works" means all temporary works of every kind required in or about the execution, completion or maintenance of the works.

"Site" shall mean **alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr Reliance Trendz, Surendranagar, Gujarat** lands and other places on under in or through which the works are to be executed or carried out and any other lands or places provided by the Employer for the purposes of the contract together with such other places as may be specifically designated in the Contract as forming part of the Site.

"Drawings" means the drawing referred to in the Specifications and any modifications of such drawings approved in writing by the Designer.

Completion Period shall be **as specified in memorandum.**

"Approved" means approved in writing including subsequent written confirmation of previous verbal approval and 'Approval' means approval in writing including as aforesaid.

"Week" & "Month" means calendar week and month respectively according to the Georgian calendar.

'Maintenance Period' as defined in Clause shall include the period of Defect Liability.

'Virtual Completion' shall mean that the works are in the opinion of the Employer complete or fit for occupation.

'Act of Insolvency' shall mean any Act of Insolvency as defined by the Presidency Town Insolvency Act, of the provincial Insolvency Act or any Act amending such original.

Words importing the singular only also include the plural and vice versa where the context requires.

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The marginal headings or notes in these General Conditions shall not be deemed to be part thereof or taken into consideration in interpretation or construction thereof or of the Contract.

DESIGNER'S/ EMPLOYER'S REPRESENTATIVE

02. **DUTIES AND POWERS OF THE DESIGNER'S/ EMPLOYER'S REPRESENTATIVE**

02.1 The duties of the Designer's Representatives are to watch and supervise the works and to test and examine any materials to be used or workmanship employed in connection with works. He shall have no authority to relieve the Contractor of any of his duties or obligations under the contract nor except as expressly provided here under or elsewhere in the contract to order any work involving delay or any extra payment by the Employer not to make any variation of or in the works.

02.2 The Designer may from time to time in writing delegate to the Designer's Representative any of the powers and authorities vested in the Designer and shall furnish to the Contractor a copy of all such written delegations of power authorities. Any written instruction or approval given by the Designer's Representative to the Contractor within the terms of such delegations (but not otherwise) shall bind the Contractor.

Provided always as follows:

02.2a Failure of the Designer's Representative to disapprove any work of materials shall not prejudice the power of the Designer thereafter to disapprove such work or materials and to order the pulling down removal or breaking up thereof.

02.2b If the Contractor shall be dissatisfied by reason of any decision of the Designer's Representative he shall be entitled to refer the matter to the Designer who shall thereupon confirm, reverse or vary such decision.

03 **EXTENT OF CONTRACT**

03a The Contract comprises the construction, completion and maintenance of the works and the provision of all labour, services, supervision, materials, plant and machinery, temporary works and everything whether of temporary or permanent nature required in or proper for such construction completion and maintenance and specified or implied in or to be inferred from the contract.

CONTRACT DOCUMENT

04 **LANGUAGE**

04a The contract is to be construed and interpreted in the English language which language is herein designated the 'Ruling languages'.

05 **SPECIFICATIONS, DRAWINGS AND INSPECTION**

05a The work shall conform to the Contract Specifications issued with these tender documents. For any item not covered by these specifications, such work shall be carried out as specified by 'Bureau of Indian Standards' and in the event of there being no specification in the above reference then in such case, the work shall be carried out in all respects in accordance with the instructions and requirements as directed by the Designer from time to time.

05b The works shall conform to the drawings as listed in the attached schedule and to such other drawings relating thereto as may be furnished from time to time during construction by the Designer in explanation of details or modifications, including such modifications as the Designer may consider to meet conditions found during the execution of the works. If the work shown on such further drawings or details or other work necessary to comply with such instructions, directions or explanations, be in the opinion of the Contractor of a nature, which the schedule rate in the Contract does not legitimately cover, he shall before proceeding with such work, give notice in writing to this effect to the Designer.

05c Complete set of drawings necessary to the extent of working out the rates are issued along with the Tender. Further drawings and details shall be supplied to the Contractor as and when the work proceeds. Consistent with the Time Schedule, the Contractor shall programme and phase the Works and get them duly approved by the Designer. The Contractor shall intimate in writing to the Designer at least 15 days in advance, his requirements of any drawing or working details. Such of these drawings as are deemed necessary in the opinion of the Designer for the smooth progress of the work shall be issued to the Contractor within a fortnight from the date of receipt of Contractor's demand in his office. However any delay in issue of the drawings or details for any reason whatsoever shall neither relieve the Contractor

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of his responsibility to execute any portion of the works nor entitle him for any compensation on any ground.

05d The drawings furnished to the Contractor for this work shall be interpreted by the use of given dimension and nomenclature only. The drawings shall not be scaled. Drawings to a larger scale shall have precedence over those to a smaller scale.

05e Prior to the execution of the work, the Contractor shall check all drawings, specifications and shall immediately report all error, discrepancies and or omissions discovered therein to the Designer and obtain appropriate orders on the same. Any adjustment made by the Contractor without prior approval of the Designer shall be at his own risk.

05f Description of items in the Bill of quantities is brief and therefore shall be read in conjunction with the relevant drawings and specifications and the Contractor's rates shall be deemed to be for such complete works unless otherwise specified by the Contractor while tendering.

05g Cost of all shop drawings, fabrication drawings or form work drawings and details to be furnished by the Contractor shall be deemed to be included in his tendered rates for the work. Approval of shop drawings shall not be construed as authorizing additional work or increased costs to the Employer. Adjustment in the tendered rates or any extension of time to cover required changes in the shop drawings to comply with the requirements of the Contract specifications shall not be allowed.

The approval of the shop drawings by the Designer shall not be construed as a completed dimensional check, but will indicate only that the general method of construction and detailing is satisfactory. Approval of such drawings will not relieve the Contractor of the responsibility for any errors or compliance with the requirements of the Contract plans and specifications, nor any discrepancy between shop drawings and

Contract plans and specifications constitute a basis for deviation from the requirements of the Contract plans and specifications. The Contractor shall be responsible for the dimensions and design of adequate connection, supports, details and satisfactory construction of the work. Any fabrication, erection, setting or other work done in advance of the receipt of approved shop drawings shall be entirely at the Contractor's risk.

GENERAL OBLIGATIONS

06 CONTRACT AGREEMENT

06a The Contractor when called upon to be enter into and execute a Contractor Agreement to be prepared at the cost of the Contractor in the form set out in Appendix 'A' to these Conditions with such modifications as may be necessary.

07 PERFORMANCE GUARANTEE,

Defect liability period (Guarantee period) 12 months from the date of taking over of the system by the bank, after rectification of any defects/ shortfalls indicated during the testing of the system. The contractor shall during this period offer free monthly preventive maintenance & shall attend all breakdown calls **WITHIN 8 HOURS** of receipt of such calls. The guarantee shall cover all the components of the system, their installation & also the **capacity & power consumption of the system.**

08 COMPENSATION FOR SHORTFALL IN EQUIPMENT CAPACITY

In case the actual measured plant capacity (using psychometric methods) is lower than specified by the contractor in the Technical Data; the Employer shall be entitled to claim compensation for shortfall in capacity of individual units on a pro-rata basis of the final item rate for the unit. For the purpose of testing; the test shall be carried out at around 4pm on any day when the outside DB temp. is around 103°F & the inside conditions are as per the designed conditions. A tolerance of $\pm 3\%$ will be allowed from the tendered data. **NO COMPENSATION SHALL BE PAYABLE TO THE CONTRACTOR IN CASE THE MEASURED CAPACITY IS HIGHER THAN THE TENDERED VALUE.**

09 COMPENSATION FOR EXCESS POWER CONSUMPTION

In case the actual measured power consumption during testing as mentioned above is found to exceed the tendered value; the Employer shall be entitled to claim compensation for such excess power consumed at the rate of Rs. 50,000/- per excess kW consumed. There shall be no bonus for lower consumption. The test shall be carried out on individual units. Standard

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LOCAL power supply shall be accounted while indicating the MAX. POWER CONSUMPTION in the TECHNICAL DATA.

10 **INSPECTION OF SITE**

10.1 The contractor shall inspect and examine the Site and its surroundings and shall be deemed to have satisfied himself before submitting his Tender as to the nature of the ground and the hydrological, climatic and physical conditions as related to the Site, the general and local conditions, particularly those bearing upon transportation, disposal, handling and storage of materials, availability of labour, water, electric power, the quantities and nature of the work and materials necessary for the completion of the works, the means of access to the site and the accommodation he may require, local religious custom and events as shall affect the execution of the works and in general shall himself obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect his Tender. No extra charges, consequent on any misunderstanding shall be entertained.

11 **PROGRAMME TO BE FURNISHED**

11.1 On acceptance of the tender the contractor shall submit a detailed bar chart interconnecting the various activities required for the execution of the project. This chart on approval shall be used for monitoring & expediting the progress of work. Based on the approved bar chart, a budgetary fund requirement chart shall also be furnished by the contractor.

12 **CONTRACTOR'S SUPERINTENDENCE**

12.1 The contractor shall depute an able & competent supervisor as his representative throughout the tenure of the contract or for such periods that the designer finds necessary for smooth completion of the project. The contractor shall be responsible for all the actions of his supervisor. The supervisor shall monitor progress of works & co ordinate with other agencies to ensure smooth completion of the project. The contractor shall also continue to provide free services of his supervisors even after commissioning of the systems to ensure that the owner's employees are properly accustomed to the proper operation of the systems.

12.2 **CONTRACTOR'S EMPLOYEES FAIR WAGES**

The Contractor shall comply with all industrial & labour rules & regulations, which are in force from time to time. The CONTRACTOR has to follow strictly the government labour acts which are in force at present & at all future times & all necessary arrangements for labour will have to be made by the CONTRACTOR shall engage Apprentices as per Apprentices Act.

No Laborer below the age of 18 years shall be employed in the work.

The contractor shall maintain a detailed record of all materials received on the site or his stores and working areas in the vicinity of the site and shall make such records available to **owners/designer**, at such times as the latter may reasonably require.

All statutory requirements, Factories Act, ESI, Workmen Compensation, Bonus Act, Provident Fund & Gratuity Act, Industrial Dispute Act, VAT etc., wherever applicable and where contributions/compensation/payments are to be made the same shall be borne by the contractor either during the term of contract or after

13 **WORK SCHEDULE AND PROGRESS REPORT**

It is essential that the completion of all the works of this contract is in time period stipulated. The contractor shall comply with the bar chart submitted along with the Tender Document for the progress of work or institute corrective measures, if necessary, to maintain the completion date. The Employer/Designer reserves the right of revise the above Bar Chart.

The Contractor shall submit to Designer by Monday of every week 3 (three) copies of a report in an approved proforma on progress of work made during the previous week and shall also submit a report giving his anticipated progress on all items of works for the current week.

The **CONTRACTOR** shall notwithstanding the provision of any contract to the contrary cause to be paid a fair wage to labourers indirectly engaged on the work including any labour engaged by his **SUB-CONTRACTORS** in connection with the said work as in the labourers had been immediately employed by him.

The Designer shall be at liberty to object to and require the Contractor to remove forthwith from the works any person employed by the Contractor in or about the execution or maintenance of the works who in the opinion of the Designer misconduct's himself or is incompetent in the proper performance of his duties or whose employment is otherwise

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considered by the Designer to be undesirable and such person shall not be again employed upon the works without the written permission of the Designer. Any person so removed from the works shall be replaced as soon as possible by a competent substitute approved by the Designer.

14 **SETTING OUT**

The Contractor shall be responsible for the true and proper setting out of the works in relation to original points, lines and levels of reference given by the Designer in writing and for the correctness (subject as above mentioned) of the position, levels, dimensions and alignment of all parts of the works and for the provision of all necessary instruments appliances and labour in connection therewith.

15 **WATCHING AND LIGHTING**

The Contractor shall in connection with the works provide and maintain at his own cost all lights, guards, fencing and watching when and where necessary or required by the Designer or Designer's Representative or by any duly constituted authority for the protection of the works or for the safety and convenience of the public or others.

16 **INSURANCE OF WORKS ETC.**

The contractor shall insure the work at his own cost in joint name with 1st name being of the bank and keep them insured until virtual completion of work by an "ALL RISK Insurance policy" for full value of the contract & workman. The minimum limit of coverage for third party insurance liability shall be 0.5% of the accepted contract sum per occurrence & maximum four occurrences a year at any time of the contract period.

17 **DAMAGE TO PERSONS AND TO PROPERTY**

The Contractor shall indemnify and keep indemnified the Employer against all losses and claims for injuries or damage to any person or any property whatsoever which may arise out of or in consequence of the work and maintenance of the works and against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto.

18 **SUPPLY OF PLANT, MATERIALS AND LABOUR**

Except where otherwise specified the Contractor shall at his own expense supply and provide all the Constructional plant, Temporary Works, materials both for temporary and for permanent works, labour (including the supervision thereof) transport to or from the site and in and about the works and other things of every kind required for the construction completion and maintenance of the works.

19 **CLEARANCE OF SITE**

The Contractor shall keep the whole of the Site in a clean tidy and safe condition by arranging his materials in an orderly fashion. Care shall be taken not to discharge material so as to interface with the progress of the works. All rubbish, waste materials and debris shall be cleared regularly from the site and disposed of in a manner approved by the Designer.

On the completion of the works the Contractor shall clear away and remove from the Site all constructional Plant surplus materials rubbish and Temporary works of every kind and leave the whole of the Site and works clean and in a workmen like condition to the satisfaction of the Designer.

MATERIALS AND WORKMENSHP

20 **QUALITY OF MATERIALS AND WORKMANSHP AND TESTS**

All materials and workmanship shall be of the respective kinds described in the Contract and in accordance with the Designer's instructions and shall be subject from time to time to such tests as the Designer may direct at the place of manufacture or fabrication or on site or at all or any of such places, at the contractors cost.

Samples once approved will remain with the Designer till the completion of works. Samples rejected will have to be replaced for fresh approval.

Materials and workmanship not corresponding in character quality with approved samples will be rejected.

The Contractor shall provide such assistance instruments machines labour and materials as are normally required for examining measuring and testing any work and the quality weight or quantity of any materials used and shall supply samples of materials before incorporation

in the works for testing as may be selected and required by the Designer, as well as furnish all invoices, receipts and other vouchers to confirm compliance herewith.

In particular for this project, manufacturers test certificate will be provided for indoor & outdoor units, laboratory test certificates for samples of ducting sheets, insulation (thermal & acoustic) etc. at the contractor's cost shall be deemed to be included.

21 **ACCESS TO SITE**

The Employer, the Designer and any person authorized by them shall at all times have access to the works and to the site and to all workshops and places where work is being prepared or when materials manufactured articles or machinery are being obtained for the works and the Contractor shall afford every facility for and every assistance in or in obtaining the right to such access.

22 **DELAY AND EXTENTION OF TIME:**

If in the opinion of the Consultant the works be delayed (a) by force major or (b) by reason of any exceptionally inclement weather or (c) by reason of proceedings taken or threatened by or dispute with adjoining or neighboring owners or public authorities arising otherwise than through the Contractors own default or (d) by the works or delays of other Contractors or tradesmen engaged or nominated by the Employer or Consultant and not referred to in the Bill of Quantities and/or specified or (e) by reason of civil commotion, local combination of workmen or strike or lock-out affecting any of the building traders or (f) by reason of the Consultant's instructions as per Clauses in consequence of the Contractor not having in due time necessary instructions from the Consultant for which he shall have specifically applied in writing, ahead of time, giving the Consultant reasonable time to prepare such instructions, the Consultant on instructions of the clients shall made a fair and reasonable extends of time for completion of the Contract works. In case of such strike or lock-out, the Contractor shall, as soon as may be, given written notice thereof to the Consultant, but the Contractors shall nevertheless constantly use his endeavors to prevent delay and shall to all that may reasonably be required to the satisfaction or the clients/designers to proceed with the work.

The contractor shall take all practicable steps to avoid or reduce any delay in the execution and completion of the works arising out of: -

- 22a Force majure,
- 22b exceptionally inclement weather,
- 22c Loss or damage by fire and earthquake,
- 22d Civil commotion, lockout, strike, etc.,
- 22e Consultant's/Employer's instructions,
- 22f Delay on the part of the nominated sub-contractor or nominated supplier,
- 22g Delay on the part of other contractors employed by the employer.

It must be clearly understood that no claim whatsoever will be admissible on account of delay in completion of the work arising out of any reasons mentioned above. The Contractor will be compensated by granting of extension of time on recommendation of the designer and approval by the employer.

23 **RATE OF PROGRESS**

The contractor shall execute the work as per the sequence given by the Designer from time to time so that all the other items of work to be executed by other agencies are completed progressively along with the main work.

24 **SUSPENSION OF WORKS**

The Contractor shall on the written order of the Employer suspend the progress of the works or any part thereof for such time or times and in such manner as the Employer may consider necessary and shall during such suspension properly protect and secure the work so far as is necessary in the opinion of the Designer.

- 24a The Employer shall be entitled to terminate and/or suspend this agreement after giving 28 days prior written notice to the Designer's and the Contractor without assigning any reason whatsoever and in such event the Contractor shall do the following within the said period of 28 days from the receipt of such notice.

- 24b Remove himself, his servants, agents, workers, labourers, sub-contractors, and/or any other representatives from the site;

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- 24c Hand over to the employer or to any person or persons as the Employer may direct all the construction materials of whatever nature in good and proper condition;
- 24d Inform the Employer and the Designer about special maintenance of any of the items of the construction work which may require immediate attention.
- 24e Give to the Employer and the Designer a list of the materials lying at the site, details of any contract for the purpose of the material and any other information with holding of which shall have prejudicial effect to the interest of the Employer;
- 24f Prepare complete account of the done, materials purchased and ordered and submit the same to the Employer and to the Designer.
- 24g Allow any other contractor and/or agents, workmen, representatives, labourers or any other person authorized by the Employer to enter upon the site and to do and/or carry out any further work but in such event for the further construction work the Contractor shall be liable.
- 24h In the event of the contractor failing to remove himself his workmen, agents representatives or any other person or persons including sub-contractors (if any) from the site within the period stipulated here-in-above, the Contractor shall be bound and liable to a pay to the employer a sum of Rs.1000/- per day till the breach continues SUBJECT HOWEVER this clause shall not entitle in any event the contractor, his agents, workmen, labourers, sub-contractor, or any other person or persons to remain on referred to stipulated period of 28 days.

25 **LIQUIDATED DAMAGES FOR DELAY**

If the Contractor shall fail to complete the works or any specified part thereof within the time prescribed taking into account any approved extensions of such time, then the contractor shall pay to the Employer the sum stated in the Tender is liquidated damages for such default and not as a penalty for every day which shall elapse between the time prescribed or approved extended time as the case may be and the date of completion of the works. The Employer may without prejudice to any other method of recovery deducts the amount of such damages shall not relieve the Contractor from him obligation to complete the works or any specified part thereof or from any other of his obligations and liabilities under the contract. Liquidated damages shall be levied @ 0.5 % of the contract value per week of delay or part thereof subject to a maximum of 5% of the contract value or as prescribed under MEMORANDUM (whichever is stringent).

26 **TERMS OF PAYMENT:**

As per MEMORANDUM

MAINTENANCE AND DEFECTS

27 **MAINTENANCE OF THE WORKS**

Except as may be otherwise provided in specification the expression "Period of Maintenance" in these conditions shall mean the period of maintenance named in the Tender calculated from the date of completion of the works certified by Designer in accordance with Clause hereof or in the event of more than one certificate having been issued by the Designer under the said Clause from the respective dates so certified and in relation to the period of Maintenance the expression "the works" shall be construed accordingly.

To the intent that that works shall at or as soon as practicable after the expiration of the period of maintenance be delivered up to the Employer in as good and perfect a condition (fair wear and tear excepted) to the satisfaction of the Designer that in which they were at the commencement of the period of maintenance the Contractor shall execute all such work of repair amendment reconstruction rectification and making good as may be required of the Contractor in writing by the Designer by agreed dates during the period of Maintenance or within fourteen days after its expiration as a result of an inspection made by or on behalf of the Designer prior to its expiration.

All such work shall be carried out by the Contractor at his own expense if the necessary thereof shall in the opinion of the Designer be due to the use of materials or workmanship not in accordance with the Contract or to neglect failure on the part of the Contractor to comply with any obligation expressed or implied on the Contractor's part under the Contract or is necessary or proper or usual to the works or material or workmanship therein.

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If the Contractor shall fail to do any such work as aforesaid required by Designer the Employer shall be entitled to carry out such work by his own workmen or by other contractor and if such work is work which the Contractor should have carried out at the Contractor's own cost shall be entitled to recover from the Contractor the cost thereof or may deduct the same from any moneys due or that become due to the Contractor.

The contractor shall during this period offer free monthly preventive maintenance & shall attend all breakdown calls WITHIN 8 HOURS of receipt of such calls. The guarantee shall cover all the components of the system, their installation & also the **capacity & power consumption of the system.**

28 **CONTRACTOR TO SEARCH**

The Contractor shall if required by the Designer in writing search for the cause of any defect imperfection or fault under the direction of the Designer and he shall repair rectify and make good such defect imperfection or fault at his own expense.

29 **ALTERATIONS ADDITIONS AND COMMISSION**

The Designer with the approval of the Employer shall make any variation of the form, quality, or quantity of the works or any part thereof that may in his option be necessary and for that purpose or if for any other reason it shall be desirable the Designer shall have power to order the Contractor to do and the Contractor shall do any of the following at the accepted main tender rates.

29a Increase or decrease the quantity of any work included in the Contract.

29b Omit any such work or substitute the same by some other work.

29c Change the character or quality or kind of any such work.

29d Change the levels, lines position and dimensions of any part the works and Executes additional work of any kind necessary for the completion of the Works, and no such variation shall in any way vitiate or invalidate the Contract but the value (if any) of all such variations shall be taken into account in ascertaining the amount of the Contract Price. No such variation shall be made by the Contractor without an order in writing of the Designer and the Employer. Provided that no order in writing shall be required for increases or decrease in the quantity of any work where such increase or decrease is not the result of an order given under this Clause but is the result of an order given under this Clauses but is the result of the quantities exceeding or being less than those stated in the Bill of Quantities. Provided that if for any reason the Designer shall consider it desirable to give any such order verbally the Contractor shall comply with such and any confirmation in writing of such verbal order given by the Designer whether before or after the carrying out of the order shall be deemed to be an order in writing within the meaning of this Clause provided further that if the Contractor shall confirm forthwith in writing to the Designer any verbal order given by the Designer and the Designer shall confirm the same in writing, then it shall be deemed to be an order in writing of the Designer.

To be able to secure the consent of the Employer to variations proposed by the Designer, the Designer shall prepare draft of such variations and submit a copy to the Employer for approval. The Designer shall also furnish a copy to the Contractor for assessment of programme implications. The Contractor shall prepare his assessment without delay and submit the same in writing to the Designer and the Employer.

30 **VALUATION OF VARIATIONS**

The Designer shall but not without the prior approval of the Employer determine the amount (if any) which in his opinion should be added to or deducted from the sum named in the Contract in respect of any additional or extra work done or work added or omitted shall be valued.

30a Where, in the opinion of the Designer, the rates set out in the Contract are applicable in accordance with the said rates.

30b Where, in the opinion of the Designer, the rates set out in the Contract do not apply or are not provided in the Contract, the rates shall be agreed between the Designer and the Contractor. In the event of disagreement the Designer shall fix such rates as shall in his opinion be reasonable and proper.

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- 30c It shall be understood that such variations will have to be referred to the Designers and the Employers in writing and the Employer's approval to such variations shall be obtained in writing prior to execution of the work.
- 30d It should be clearly understood that the Contractor shall make no claims whatsoever towards hardships suffered by him in the performance of the contract.
- 30e Provided also that no increase of the amount of the Contract or rate under Clause. shall be made unless within 14 days of making and order under Clause hereof and in the case of extra or additional work before the commencement of the work, notice shall have been given in writing.
- 30f By the Contractor to the Designer of his intention to claim extra payment or rates or
- 30g By the Designer to the Contractor of his intention to vary a rate as the case may be.
- The contractor when called for by the owner shall furnish detailed analysis in support of the rates quoted by him against each item of the tender. The owner reserves the right to utilities the analysis thus supplied in settling of any deviations or claims arising out of this contract.

31 **QUANTITIES**

The quantities set out in the Bill of Quantities have been measured but they are not to be taken as representing the actual and correct quantities of the works to be executed by the contractor in fulfillment of his obligations under the contract.

32 **MEASUREMENT OF WORKS**

The Designer and/or the owner may from time to time intimate to the CONTRACTOR that may require the works to be measured and the CONTRACTOR shall attend or send a qualified agent to assist the Designer and Owner's representative in taking such measurements and calculations and to furnish all particulars or to give all assistance required by either of them.

Should the CONTRACTOR not attend or neglect or omit to send such agents then the measurements taken by Designer and Owner's representative or approved by them shall be taken to be the correct measurements mentioned in the specifications.

Any claim which the CONTRACTOR may have to make in respect of such measurement shall be made by him in writing to the Designer within seven days of the date of these measurements, failing which the measurements shall be deemed to have been accepted by the CONTRACTOR.

Where mode of measurement is not specified, the measurement will be taken at site as per IS code of practice of practice for measurements. The CONTRACTOR shall give all assistance for taking measurements like steel measuring tapes, scaffolds, ladder etc.

The Designer shall except as otherwise stated a certain and determine by measurement the value of work ad variations issued by him under Clause hereof. He shall when he requires any part of parts of the works to be measured give notice to the Contractor's authorised agent or representative who shall forthwith attend or send a qualified agent to assist the Designer or the Designer's representative in making such Measurement and shall furnish all particulars required by either of them. Should the contractor not attend or neglect or omit to send such agent then the measurement made by the Architect or approved by him shall be taken to be the correct measurement of the work. The Contractor shall take joint measurements with the Designer's Representative before covering up or otherwise placing beyond the reach of measurement any item of work. Should the Contractor neglect to do so, the same shall be uncovered at the contractor's expense or in default thereof, no payment or allowance shall be made for such work or the materials with which the same was executed.

CERTIFICATE AND PAYMENTS

33 **METHOD OF PAYMENT TO CONTRACTOR**

The contractor shall submit to the Designer/Employer on completion works of a value sufficient to qualify for interim payments as per terms of payment, three copies, each signed by the Contractor of the bill along with measurement sheets, in such form as the Designer may prescribe showing amounts to which the contractor may consider himself entitled to in respect of:

- 33a The work executed in accordance with the contract.
- 33b Payment against supply & erection of equipment/ material

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- 33c Variations issued by the Designer.
The Designer shall check the statement submitted by the Contractor in accordance with the provisions of this clause and within a reasonable period from the receipt thereof shall issue a certificate to the Employer and to the Contractor stating the amount which he considers is rightfully due to the Contractor in respect of the aforesaid statement.
Payment upon each of the Designer's certificate shall be made by the Employer within a reasonable time after such certificate has been delivered to the Employer.
All payments made under this Clause shall be regarded as payments on account and shall not preclude the Designer from making any correction or modification in any previous certificate which shall have been issued by him or from withholding any certificate if the works or any part thereof are not being carried out to his satisfaction five signed copies of the final statement of accounts for the works prepared in the form specified for interim statement shall be submitted by the Contractor to the Designer within a period not exceeding one month from the date of issue of a certificate of completion in respect of whole of the works.
The aforesaid final statement shall be checked by the Designer in consultation with the Employer and if agreed upon shall be signed by the Employer, the Designer and the Contractor and subject to agreement thereon or prior reference to arbitration shall be signed by the Designer and the Contractor as representing the final statement of moneys due to the Contractor under the Contract. No certificate other than the Final Payment Certificate shall be deemed to constitute acceptance of the accuracy of any claim or demand made by the Contractor or of additional or varied work having been ordered by the Designer.
The Employer shall be entitled to deduct from any moneys due to the Contractor under this Clause the value of materials designated in the contract to be procured by the Employer and supplied to the contractor at the fixed prices.
The currency for all payments under this Contract shall be the Indian Rupee.

SETTLEMENT OF DISPUTES

- 34 **ARBITRATION**

LAWS GOVERNING THE CONTRACT

If any disputes or difference of any kind whatsoever shall arise between the Employer or the Designer and the Contractor in connection with or arising out of the Contract or the carrying out of the works (whether during the progress of the works or after their completion and whether before or after the termination, abandonment or breach of the Contract) it shall in the first place be referred to and settled by the Designer who within a period of 90 days after having been requested by either party to do so shall give written notice of his decision to the Employer in respect of every matter so referred shall be final and binding upon the Employer and the Contractor until the completion of the work and shall forthwith be given effect to by the Contractor who shall proceed with the works with all due diligence whether he or the Employer requires arbitration as hereinafter provided or not. If the Designer has given written notice to his decision to the Employer and the Contractor and no claim to arbitration has been communicated to him by either the Employer or the Contractor within a period of 90 days from receipt of such notice the said decision shall remain final and binding upon the Employer and the Contractor.

Reference to arbitration in accordance with provision of this clause shall be condition precedent to action at law. This submission shall be deemed to be a submission or Arbitration within the meaning of the Indian Arbitration Act, 1940, or any statutory modification thereof.

The contract shall be governed by laws of India. Subject as aforesaid only Courts of Competent Jurisdiction in **Surendranagar** will have jurisdiction in actions at law.

- 35 **SERVICE OF NOTICES**

The Contractor shall notify in writing to the Employer and the Designer his address in Surendranagar for the purpose of service of any notice to him under the terms of the Contract and any such notice to the Contractor shall be deemed to be duly served if sent by registered post to or left at such address or if delivered to the agent or representative of the Contractor for the time being authorized and approved under the Contractor or if left at the Contractor's registered office or at his last known address.

Bidders Signature with Stamp and date

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Any notice to be given to the Designer or Designer's representative under the terms of contract shall be duly served if sent by Regd. post or delivered at the "Architect", under acknowledgement.

Any notice to be given to the Employer or the Employer's Representative under the terms of the Contract shall be deemed to be duly served if sent by registered post to or delivered at the Employer's office under acknowledgement.

36 **VARIATIONS IN PRICE**

The Contract shall be on a fixed rate basis and the Contractor shall allow for the risk of any rise or fall in the cost of labour, materials and plant. No adjustment in the contract price or to individual rates or sums inserted by the Contractor in the Contract shall be made by reason of any change in the conditions of employment of labour and staff, any change in the cost of materials for the permanent or the temporary works or in consumable stores, fuel, power and water, any variation in the rates of freight or other transport or incidental costs handling charges or otherwise howsoever.

The payment to be made by the Employer to the Contractor for the works will not be affected by any variation in the prices of materials which are used in the works and the Contractor will not be entitled to claim any increase in the prices nor will the Employer be entitled to claim any rebate in the rates of payment because of any decrease in the prices.

Statutory variations in GST, EXCISE, shall however be to the Bank account, provided the exact amount & rate of the relevant tax/ duty is indicated in the offer. Changes on account of change of interpretation of any acts by the authorities at a later date shall be borne by the EMPLOYER.

37 **VARIATIONS NOT TO VITIATE CONTRACT**

The Contractor shall when directed in writing by the Consultant omit from or vary works shown upon the Drawings or described in the specifications or included in the priced schedule of Quantities, but the Contractor shall not make any alterations or additions to or omissions from the works or any deviations from the provisions of the Contract without such authorization or direction in writing from the Consultant.

No claim for an extra shall be allowed unless it shall have been executed by the authority of the Consultant as herein mentioned. Any such extra is hereinafter referred to as an authorized extra. No variations, i.e. additions, omissions, or substitutions shall vitiate the contract.

The rates of items not included in the Bill of Quantities shall be settled by the Consultant.

When extra work cannot properly be measured and valued, the Contractor shall be allowed day work prices, provided that a written authority for day work is obtained by the Contractor before the execution of the extra work and provided that if any case vouchers specifying the time spent upon the work countersigned by the Employer's Representative and the materials employed shall be delivered for verification to the Consultant not later than the end of the week following that in which the work has been executed.

If compliance with the consultant's instruction involves the contractor in any loss or expense beyond that provided for in or reasonably contemplated by the contract, then unless such instructions were issued by reason of some breach of the Contract by the Contractor, the amount of such loss and/or expense shall be ascertained by the Consultants and shall be reimbursed to the Contractor by the Employer on the Consultant's certificate.

If the Contractor fails to comply with the Consultants instructions within a fortnight after the receipt of a written notice from the Consultant, requiring compliance with such instructions, the Employer through the Consultant may employ some other Agency to execute any work whatsoever which may be necessary to give effect to such instructions and all expenses consequent there on or incidental thereto be borne by the Contractor and shall be recoverable from or may be deducted by the Employer from any monies due to him.

38 **CONTRACTOR TO PROVIDE EVERYTHING NECESSARY**

The contractor shall provide everything necessary for the proper execution of the works according to the true intent and meaning of the Drawings, Specifications and Bill of Quantities taken together whether the same may or may not be particularly shown or described therein, provided that the same can be inferred there from & if the Contractor finds

any discrepancy in the Drawings or between the Drawings, specifications & Bill of Quantities the following order/preference shall be observed: -

- 38a Description of Bill of quantities,
- 38b Particular specifications and special condition if any,
- 38c Drawings,
- 38d General Specifications,
- 38e The contractor when called for by the owner shall furnish detailed analysis in support of the rates quoted by him against each item of the tender. The owner reserves the right to utilize the analysis thus supplied in settling of any deviations or claims arising out of this contract.

39 **AUTHORITIES NOTICES, PATENT RIGHTS & ROYALTIES:**

The Contractor shall conform to the provisions of the statutes relating to the works, and to the Regulations and Bye laws of any local Authority, and of any Water, lighting and other companies or Authorities with whose systems the structure is proposed to be connected, and shall before making any variation from the Drawings or Specifications that may be necessitated by so conforming, give to the Consultant written notice, specifying the variations proposed to be made and the reason for making it, and apply for instruction thereon. In any case the Contractor shall not proceed with the work conforming to the provision Regulations or Bye-laws in question.

The Contractor shall bring to the attention of the Consultant all notices required by the said Acts, Regulations or Bye-laws, to be given to any Authority by the Employer or Officer, all fees that may be properly chargeable in respect of the works, and lodge the receipts with the Consultant.

40 **TO DEFINE TERMS AND EXPLAIN PLANS:**

The various parts of the Contract are intended to be complementary to each other, but should any discrepancy appear, or any misunderstanding arise as to the import of any thing contained therein, the explanation of the Consultants shall be final and binding. The correction of any errors or commissions of the Drawings and Specifications may be made by the Consultants, when such correction is necessary to bring out clearly the intention, which is indicated by a reasonable interpretation of the Drawings & Specifications as whole.

- 41 The whole of the works as described in the Contract (including the Schedule of quantities, the specifications and all drawings pertaining thereto) and as advised by the consultants from time to time is to be carried out and completed in all its parts to the entire satisfaction of the employer/engineer and the consultant. Any minor details which are obviously and fairly intended, or which may not have been definitely referred to in this contract, are to be included in this contract.

Rates quoted in the Schedule shall be inclusive of all GST, freights, taxes, such as Octroi, Royalties, etc., as well as transportation, so as to execute the contract as per the rules and regulations of Local Bodies, State Government and the Government of India. Any Statutory increase in levies, octroi, royalties, etc. by Government over and above considered at the time of tendering, will not be paid by the owner. No claim regarding escalation of prices on labour, materials or on other aspects shall be entertained during the period of execution of work or thereafter. No claim regarding escalation of price on labour, materials or on other aspects shall be entertained during the period of execution of work or thereafter for extension period, if granted.

The rates quoted in the tender should include all charges for :

- 41a Labour, maintenance, fixing, arranging, cleaning, making good, hauling, lifting etc.
- 41b Plant, double scaffolding, framework, English ladders, ropes, nails, spikes, tools, material and workman like protection from weather, temporary supports, platform & the maintenance of the same.
- 41c Covering for the walling and other works during inclement weather or strikes or whenever directed, as necessary.
- 41d All temporary canvas, lights, tarpaulin, barricades, water shoots, etc.
- 41e All stairs and steps, thresholds & any other requisite protection of the works.
- 41f All such temporary weather-proof sheds at such places & in a manner approved by the DESIGNER for the storage and protection of materials against the effects of Sun and Rain.

Bidders Signature with Stamp and date

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- 41g All such temporary fences, guards, approaches & roads as may be necessary for execution of the contract works and for safe guarding the public.
- 41h No tools & plants shall be issued by the Employer under the contract.
The rates quoted by the tenderer in the schedule of probable quantities will be deemed to be for the finished work.
- 42 **CONTRACT AGREEMENT**
The Contractor will have to enter into an agreement on a Non-Judicial stamp paper of requisite value. The proforma for the agreement will be as per the general conditions and special conditions of the contract bound in the tender. The cost of stamp paper will be borne by the Contractor.
- 43 **WORKS AT NIGHT**
In order to keep to the time schedule, it may be necessary for the Contractor to work outside normal working hrs.& during holidays. The contractor shall make necessary provision in his rates & also take all permissions & make all required arrangements for this purpose as required by the Owner & to comply with all rules and regulations of local authority stipulations. For all such work, application in writing shall have to be made atleast 48 hrs. in advance. The owner solely at his own discretion may permit work beyond normal hrs, for which no extra payment shall be allowed to the Contractor. All labour & material shall be transported by the staircase as the use of the lift shall not be available for such purpose. All required arrangements for lighting, security etc. shall be made by the Contractor for this purpose without any extra cost to the Owner.
If the contractor is required to work at night, the contractor shall provide & maintain at his own cost sufficient lights to enable the work to proceed satisfactorily without danger. Approaches to the site also shall be sufficiently lighted by the Contractor. No extra payments will be made for night work.
- 44 The Contractor shall pay particular attention to ensure safety of his staff & workmen and others in the vicinity & shall be responsible for any loss of life or injury to persons due to negligence or any other causes whatsoever except natural causes. He shall provide all necessary fencing & lights required to prevent accidents & shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions & to pay any damages & costs which may be awarded in any such suit, action or proceedings to any such person or which may with consent of the CONTRACTOR be paid to compromise any claim of any such person.
- 45 All debris or other matter of an offensive nature shall not be deposited on the site, but shall at once be carted away by the CONTRACTOR TO some place provided by local authorities.
- 46 **TRIAL RUN:**
Trial run of the system shall comprise of (but not limited to):
Operation of individual equipments.
Blowing of the ducts & other accessories.
Initial balancing.
Checking of current drawn by various equipments etc.
- 47 **FINAL TESTING:**
Final testing of the system shall be carried out after full (near full) occupation of the premises with all the equipment installed in place. The test data as per the format enclosed shall be taken & analyzed for the purpose of evaluating the performance of each equipment & system in general.
- 48 **Compliance of labor legislation:**
The contractor has to comply with the provisions of all labour legations including the requirements of:

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- 48A The Payment of wages Act.
48B Employer's Liability Act.
48C Workmen Compensation Act.
48D Contract labour (Regulation & Abolition) Act, 1970 & central rules 1071.
48E Apprentices Act 1961.
48F any other Act or Enactment relating thereto rules framed there under from time to time.

SPECIAL NOTES FOR CONTRACTOR

- a. Soft refrigerant piping where ever used shall be properly installed & bends shall be made using tube bender;
- b. Where pipes &/or cables pass through walls or ceilings; proper G.I. Pipe sleeves shall be provided whether the same is specifically mentioned or not; no separate rates will be applicable
- c. Refrigerant pipes shall be mounted on teak wood gutties to avoid physical contact with structure & shall be properly clamped & neatly laid; no separate rates will be applicable;
- d. Site progress register shall be maintained at site;
- e. All tools, tackles, instruments & manpower required for testing (including witness test by Engineer/ Consultant) shall be arranged free of cost by contractor as & when required including for re-tests if any;
- f. Free periodic services for maintenance shall be provided by contractor (depending upon actual site requirement like choking of condenser coil etc.) but not less than **ONE SERVICE PER MONTH** to ensure efficient operation of the system.
- g. The unit rates indicated shall be **INCLUSIVE OF ALL MATERIAL CHARGES, TRANSPORTATION, LOCAL LEVIES AS APPLICABLE, LOADING, UNLOADING, LIFTING- SHIFTING, ERECTION, TESTING , COMMISSIONING, VAT, SALES TAX, ANY ADDITIONAL/SPECIAL DUTIES, EXCISE, CUSTOM DUTY, GST ETC. AS APPLICABLE.**
- h. **ANY ADDITIONAL LIABILITY ARISING OUT OF A DIFFERENT NTERPRETATION OF RELEVANT ACTS SHALL BE TO CONTRACTORS ACCOUNT.**
- i. **TAXES & DUTIES INCLUDED (ITEMWISE) SHALL ALSO BE CLEARLY INDICATED BOTH AS PERCENTAGE & IN RUPEES.**
- j. Grouting for supports of contractors equipment shall be carried out by contractor,
- k. The contractor shall carry out tests on different equipment's as specified in various sections, in the presence of clients/their authorized representatives &/or the consultants in order to enable them to determine whether the plant & equipment's and installation in general comply with the specifications
- l. All necessary support arrangement for Indoor unit shall be in in Contractor scope of supply.

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APPROVED MAKES FOR AIRCONDITIONING SYSTEM

Sl. No	ITEM	APPROVED MAKE
1	VRF / VRV Systems	Mitsubishi Heavy / Mitsubishi Electric / Hitachi / Daikin / Toshiba
2	Indoors Cassette / Split type units	Mitsubishi Heavy / Mitsubishi Electric / Hitachi / Daikin / Toshiba / Blue Star
3	Air Handling Unit	Chauhan Engineering Co., Edgetech, Nutech, Citizen
4	Vibration pads	Resistoflex / Dunlop
5	Vibration isolation	Dunlop / Cushy Foot / Resistoflex
6	Refrigerant Pipes	Mandev / Maxflow / Totalline
7	Nitrile Rubber insulation	Hylam / Superlon / Armaflex / Trocellen / Aeroflex
8	Power Cables	Polycab / Finolex / Torrent / RR Kabel / Havells
9	Control Cables	Polycab / Finolex / Torrent / RR Kabel / Havells
10	Panel builder	Load controls / Lotus power gear / Ellins switch board / ENCONPASS / Switchgear & control technique
11	Cable gland	Comex / Comet / Jainson
12	Lugs / sockets	3D / Dawells / Jainson
13	PVC pipe	Supreme / Finolex

All alternative makes offered shall be clearly spelt out in the offer & shall be subject to our acceptance.

SPECIFICATIONS

Interconnecting Refrigerant Piping & Wiring:

The refrigerant piping interconnecting to indoor & outdoor units shall be of copper and shall be joined by brazed type joints. Refrigerant pipes shall be insulated as per specification. Wiring interconnecting the indoor and outdoor unit shall be done with PVC insulated copper conductor flexible wires of appropriate rating.

The set of two refrigeration lines and the wires shall be bundled together.

All pipe supports/clamps shall be painted with red oxide primer followed by 2 coats of synthetic enamel finish paint.

The piping and wiring shall be laid such that it does not spoil the aesthetics of the premises, and is safe, secure and approachable for repair/replacement.

Supports & Brackets

The equipment's shall be properly supported with brackets, hangers, platforms, base frame etc. depending upon the type, location and capacity of the unit.

The supports shall be GI slotted angle and GI threaded rods. The outdoor condensing units shall be properly supported on MS duly painted with anti-corrosive rubber paint frame work / platform with anti-vibration rubber pads on PCC blocks or properly grouted to the RCC Slab / brick walls using bracket.

The ceiling suspended evaporator indoor units shall be supported using anchor fasteners and GI threaded suspension rods. The wall-hung evaporators shall have GI stenciled back plate for mounting the unit, grouted to the wall / beam using anchor fasteners.

Drain Piping

The drain piping shall be made out of rigid UPVC pipes of 10 Kg/cm² class. The piping shall be supported by clamping on MS angle 25mm x 3mm running continuously below the pipe.

The drain pan shall be connected to rigid UPVC pipe by braided UPVC flexible pipe with appropriate adapters. All pipes support/clamps shall be painted with red oxide primer followed by two coats of synthetic enamel finish paint.

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Piping Insulation

All Refrigerant piping shall be insulated with 19 mm Thick Closed cell elastomeric Nitrile Rubber Insulation. Drain piping shall be insulated with 6mm Thick Nitrile Rubber or Polystyrene Insulation Insulating material in tube form shall be sleeved on the pipes. On piping, slit opened tube from insulating material shall be placed over the pipe and adhesive shall be applied as suggested by the manufacturer. Adhesive must be allowed to tack dry and then press surface firmly together starting from butt end and working towards centre.

Measurement of Insulation

Piping insulation will be measured as per length of the pipes.

STANDARDS

The following standards shall be applicable for equipment

- 1 IS : 4283 Hot air fans
- 2 IS : 8272 Industrial cooling fans (man coolers)
- 3 IS : 1391 Room Air conditioners
- 4 IS : 8148 Packaged Air conditioners
- 5 IS : 2997 Air circulator type electrical fan and regulator
- 6 IS : 1169 Electrical pedestal type fans and regulators
- 7 IS : 374 Electrical ceiling type fan and regulator

GENERAL & IMPORTANT NOTES

1 GENERAL NOTES:

- (i) Unless otherwise specified in these tender documents mode of measurements specifications etc. shall be as per relevant IS codes.
- (ii) Source of materials / samples / brands / makes etc. shall be got approved from the Architects / Bank before using. In case of deviations, decision of the Bank shall be final and binding and shall not be open for arbitration.
- (iii) The Architects have their specific role / duties / rights as defined in these tender documents However in the event of any dispute arising out of differences between the opinions of the Architects and also their role/duties/rights, the Banks' decision shall be final & binding on the Architects and the Contractor and shall not be open to arbitration.
- (iv) The Contractor will extend full co-operation, support and all required assistance to Architect / Bank for discharging their duties and responsibilities efficiently and effectively.
- (v) The contractor has to supply and adhere to the specific makes and specifications of all the items, which are mentioned in the separate list of approved makes. Any work found not as per the tender specifications and list of approved the contractor has to replace the same without any delay. The contractor is instructed of get approval of all the materials to be used on this site before starting the work. He should provide different sample of material for approval, before execution of work.
- (vi) All quantities indicated in the tender are approximate & are likely to change. The contractor must take actual measurement at site and billing shall be done as per the actual measurement of the work done at site.
- (vii) Work has to be got executed at site in coordination with various agencies working at site.
- (viii) The contractor is instructed to get the approval of the materials to be used on this site before starting the work. He shall provide different sample of materials for approval before execution of the work
- (ix) All material have to be used in full size/length only. Joints should be avoided as far as possible.
- (x) Any item mentioned in the BOQ with "TO THE SHAPE" will have measurement of onsite executed to the shape area only.
- (xi) Making various levels & line out for total layout on site for the items in scope of the work shall be done by the contractor.

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- (xii) MTC (Manufacturer Test certificate) Where ever applicable shall be arranged & submitted by the contractor. Testing of wood for moisture, knot % etc. shall be carried out by the contractor at his own cost.

2 IMPORTANT NOTES:

- (i) The contractor's qualified & authorized representative shall remain on site during the entire execution process for coordination with various agencies / Architect / Bank & execution of work
- (ii) The site shall be cleaned on day to day basis & all debris shall be disposed away at the location beyond the limit as approved by the local authority.

(iii) Hidden measurement. It is contractor's responsibility to get the measurement checked immediately on completion of such items. This shall be done before finishing the same & before ceiling boarding done. The Architect shall be provided with such details well in advance so that the other work is not held up due to last moment action.

(iv) The contractor shall coordinate with landlord for the locations of outdoor units & must inform Architect / bank / Electrical contractor about the power requirement to outdoor or indoor units

(v) The contractor must submit the detailed catalogue of each type machine as per BOQ along with technical bid.

(vi) The contractor must complete all low side on top most priority.

- (vii) Before starting the contractor shall mark out the locations of outdoor & indoor locations of each machine, route of various types of piping, caballing, wiring etc. & submit the same to the architects for the approval. The approval of the drawing by the Architect shall in no way relieve the contractor from the responsibility of providing a complete and satisfactory installation and achieving and maintaining the stipulated design conditions. Any errors, omissions and shortfalls shall be rectified, and made good free of cost to the owner regardless of the fact that the installation may in the first place have been carried out as per the approved drawings.
- (viii) The contractor shall mark the return air passage, location of machines with exact dimensions size of trap door requirement, Ducting drawing, Insulation, Acoustic insulation, on drawing & also on site (slab) before starting the work. The contractor shall design exact system of Air-conditioning installation as per the site requirement & the machine configuration & submit the same in auto cad format to the architects for approval purpose.
- (ix) The tender shall be quoted in 1 name only without division of high side & low side work differentiation. Order shall be placed to one party (company itself or its authorized dealer) only & shall be billed for F.O.R. site
- (x) The rates quoted shall be inclusive of all taxes, GST, Duties, Octroi, Transportation, Delivery, Installation, Testing, Commissioning etc. complete at the site. No extra will be paid for any kind of taxes.
- (xi) Guarantee: As given by the manufacturer but minimum one year from the date of successful commissioning. for the compressor the guarantee should be minimum five years
- (xii) All A.C. units shall be with high ambient rotary / twin rotary / scroll compressor and shall carry 5 years warranty on compressors
- (xiii) The entire job shall be executed in total coordination with the other agencies working on this Project & also with landlord, bank etc.
- (xiv) Architect of the project shall be kept informed about the progress of the work at various stages
- (xv) All outdoor units shall be installed at the location recommended by the bank / architect / landlord

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- (xvi) The contractor must get the checked measurement of all hidden items i.e. refrigerant pipe, electrical caballing, drain pipe etc. before the false ceiling boarding is done or putting final finishes.
- (xvii) The contractor shall arrange on his own for lighting & plug point with socket & electrical wiring, DB's etc. required during entire execution process. However supply at point shall be provided by the bank / landlord
- (xviii) Any Hidden item MUST be photographed and need to be sent via social media or CD to Architect / Bank
- (xv) Billing Process:
Along with final bill the contractor must submit:
- Abstract in tender BOQ format only
 - schedules for detailed measurement sheet for all items (machine wise break up)
 - separate as built drawings (Min. A3 size) marking exact locations of all works executed on site e.g. Location of outdoor & indoor units with numbering, route of refrigerant pipe, drain pipe, electrical caballing etc. with numbering W.R.T. the measurement sheet.
 - detailed break up of fabrication work W.R.T. to various types of sections as per std. steel table - original insurance policies as per tender terms within 3 days from the date of LOA
 - completion certificate duly signed by the branch head / bank official
 - testing & commissioning reports duly filled & for each machine duly signed by the client
 - delivery challans for each machine duly signed by the client
 - copy of LOA etc.
 - All documents shall carry contractor's signature & seal with address.
 - All documents shall be submitted in 1 plus 1 copies.
 - The contractor shall also provide all measurement sheet in soft copy (in Excel format) & As built drawing in ACAD format

IMPORTANT: ALL DOCUMENTS SHALL BE SUBMITTED AT ONCE ALONG WITH FINAL BILL & SHALL BE DULY SIGNED BY PUTTING COMPANY'S ADDRESS SEAL.

Bidders Signature with Stamp and date

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Proforma of "I-Running A/C Bill"

- i) Name of Contractor/Agency :
- ii) Name of Work :
- iii) Sr No. of this bill :
- iv) No. and date of previous bill :
- v) Reference to Agreement No. :
- vi) Date of written order to commence :
- vii) Date of completion as per agreement :

Sl. No.	Item Description	Unit	Rate (Rs.)	As per tender		Up to Previous R/ A Bill		Up to Date (Gross)		Present Bill		Remarks
				Qty	Amount (Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)	Qty	Amount (Rs.)	
1	2	3	4	5		6		7		8		9

Note :

1. If part rate is allowed for any item, it should be indicated with reasons for allowing such a rate.
2. If adhoc payment is made, it should be mentioned specifically.

Net value since previous bill

Bidders Signature with Stamp and date

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III. CERTIFICATE

The measurements on the basis of which the above entries for the Running Bill No. _____ were made have been taken jointly on _____ and are recorded at pages _____ to _____ of measurement book No. _____.

Signature and date of contractor

Signature and date of Project Architect

The work recorded in the above mentioned measurements has been done at the site satisfactorily as per tender drawings, conditions and specifications.

Project Architect

Proforma for "Memorandum for Payment" IV

RUNNING BILL NO. _____

1. Total amount due since previous bill (D) (A+B) Rs. _____
2. ~~PVA on account of escalation in price of steel, cement and other materials and labour as detailed in separate statement enclosed : Rs. _____~~
3. Deductions :
 - i) Secured Advance paid in the previous R.A. Bill Rs. _____
 - ii) Retention money on value of works as per accepted tenders : up to date amount Rs. _____
 Less : Already recovered (-) Rs. _____
 Balance to be recovered Rs. _____ (-) Rs _____
 - iii) Mobilization advance, if any
 - a) Outstanding amount (Principal + Interest) as on date Rs. _____
 - b) To be recovered in this bill Rs.
 - iv) Any other departmental material cost to be recovered as per contract, if any
Rs. _____
 - v) Any other departmental service charges to be recovered if any, as per contract (water, power etc) Enclose statement Rs. _____
 Total deduction as per contractor Rs. _____ (-) Rs. _____
 Net amount payable as per Contract (E-F) Rs. _____ Rs. _____(G)

(Rupees) in words

The bill amounting to(both figures and words) has been scrutinized by me after due check of the measurement of works as required and is recommended for payment.

Signature of Project Architect with seal

Date:

The Project Architect's certification amounting to (both figures and words) has been scrutinized by me and after due test check of the measurement of works as required is recommended for payment amounting to(both figures and words)

Signature of Project Architect's

Date:

STATUTORY DEDUCTIONS :

1. Total amount due (E) Rs. _____
 2. Less : Income Tax Payable Rs. _____
- Net Payable Rs. _____

The figure given in the Memorandum for Payment has been verified and the bill passed for payment Rs..... (Words and figures)

Date :

Signature of the
DGM, Dy Zonal Head

Bidders Signature with Stamp and date

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Proforma V of Certificate of Payment By Bank

Certificate No. Interim/	Dated																															
Client :	Project No.	Building Work/Interior Work																														
	Particulars :																															
Contractor :	Contract/Letter NO.	Dated :																														
	Contractor's Bill No.	Dated :																														
<p>This is to certify that the amount given below (*) is due to the Contractors for the work done by them and/or against materials delivered at site and/or for advance towards contract on the above referred project.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Advance against contract</td> <td style="width: 10%; text-align: right;">Rs.</td> <td style="width: 30%; border-bottom: 1px solid black;"></td> </tr> <tr> <td>Less : Advance adjusted to-date</td> <td style="text-align: right;">Rs.</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td>Balance Advance</td> <td style="text-align: right;">Rs.</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td>Advance against material delivered at site</td> <td style="text-align: right;">Rs.</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td>Amount of work done to-date</td> <td style="text-align: right;">Rs.</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td>Total</td> <td style="text-align: right;">Rs.</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td>Less : Retention on work done</td> <td style="text-align: right;">Rs.</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td>Less : Previously certified upto</td> <td style="text-align: right;">Rs.</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td>PRESENT CERTIFICATE (*)</td> <td style="text-align: right;">Rs.</td> <td style="border-bottom: 1px solid black;"></td> </tr> <tr> <td>RUPEES</td> <td></td> <td></td> </tr> </table> <p>The cost of cement or any other material supplied or payments made by BOB directly, if any and not covered herein above, should be adjusted before making the payment of the certified amount (*) Necessary Deduction U/S 194C of the Income Tax 1961 and sales tax may be made before paying the above certified amount.</p> <p>By a copy of this letter, we are intimating the Contractors to call on you for the necessary payment.</p>			Advance against contract	Rs.		Less : Advance adjusted to-date	Rs.		Balance Advance	Rs.		Advance against material delivered at site	Rs.		Amount of work done to-date	Rs.		Total	Rs.		Less : Retention on work done	Rs.		Less : Previously certified upto	Rs.		PRESENT CERTIFICATE (*)	Rs.		RUPEES		
Advance against contract	Rs.																															
Less : Advance adjusted to-date	Rs.																															
Balance Advance	Rs.																															
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Less : Previously certified upto	Rs.																															
PRESENT CERTIFICATE (*)	Rs.																															
RUPEES																																
Remarks, if any :																																
The details of Insurance Policy are given in the next page.																																
Signature of Project Architect _____																																
Enclosures : Bill																																

Client's Copy

Bidders Signature with Stamp and date

Invites sealed Tender / Bid for Interior, Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.

VI - DETAILS OF INSURANCE POLICIES

Type of policies	Name of Insurance	Amount Rs.	Policy No.	Validity
CAR Policy including 3 rd Party liability		The Insurance shall be for an amount equal to 110% of the contract value.		Till Site handing over to bank
Workmen's Compensation				
Remarks :				
1.	This is only an 'on-account' payment and is not to be interpreted either as approval of work, materials brought or affixed at site or for that matter approval of any sort.			
2.	The quantum of work done and materials delivered at site have been certified by			
3.	Should you wish to audit such work, kindly contact the undersigned and oblige.			
				Project Architect

Bidders Signature with Stamp and date

Invites sealed Tender / Bid for Interior, Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.

PROFORMA OF HINDRANCE REGISTER

Name of Work : Date of start of work :
 Name of Contractor : Period of completion :
 Agreement No. : Date of completion :

Sr. No.	Nature of hindrance	Date of occurrence of hindrance	Date of which hindrance was removed	Period of hindrance	Signature SE/PE	Remarks
1	2	3	4	5	6	7

Project Architect

Bidders Signature with Stamp and date

Invites sealed Tender / Bid for Interior, Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.

SAFETY CODE

1. First aid appliances including adequate supply of sterilized dressing and cotton wool shall be kept in a readily accessible place.
2. An injured person shall be taken to a public hospital without loss of time, in case where the injury necessitates hospitalization.
3. Suitable and strong scaffolds should be provided for workmen for all works that cannot safely be done from the ground.
4. No portable single ladder shall be over 8 meters in length. The width between the side rails shall not be less than 30 cm (clear) and the distance between two adjacent rungs shall not be more than 30 cm. When a ladder is used an extra mazdoor shall engaged for holding ladder.
5. The excavated material shall not be placed within 1.5 meters of the edge of the trench of the half of the depth of trench whichever is more. All trenches and excavation shall be provided with necessary fencing and lighting.
6. NO floor, roof or other part of the structure shall be so overloaded with debris or materials as to render it unsafe.
7. Workers employed on mixing and handling material such as asphalt, cement mortar of concrete and lime mortar shall be provided with protective footwear and rubber hand-glove.
8. Those engaged in welding works shall be provided with welder's protective eye shield and gloves.
9. i) No paint containing lead or lead products shall be used except in the form of paste and readymade paint.
ii) Suitable facemasks should be supplied for use by the workers when the paints applied in the form of spray or surface having lead paint dry rubbed and scrapped.
10. Overalls shall be supplied by the Contractor to the painters and adequate facilities shall provide to enable the working painters to wash during the periods of cessation of work.

Bidders Signature with Stamp and date

Invites sealed Tender / Bid for Interior, Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.

PROFORMA FOR APPLICATION BY CONTRACTOR FOR EXTENSION OF TIME

1. Name of the Contractor
2. Name of the work as given in the Agreement
3. Agreement WO
4. Tender amount
5. Date of commencement of work
6. Period allowed for completion as per agreement
7. Date of completion as per agreement
8. Period for which extension of time has been given

Dated Month Year

- a) 1st extension vide Bank's Letter No.
 - b) 2nd extension vide Bank's Letter No.
 - c) 3rd Extension vide Bank's Letter NO.
9. Reasons for which extensions have been previously given (copies of the previous applications should be attached)
 10. Period for which extension is applied for and the reasons thereof including hindrances, time for extra work assigned, if any etc.

Signature of Contractor

Bidders Signature with Stamp and date

Invites sealed Tender / Bid for Interior, Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.

AC's Testing of installation

Scope of Supply includes the following:

- ❖ Supply of the equipment / system as specified above
- ❖ Installation & Commissioning as specified in above
- ❖ Training as specified below.
- ❖ On site comprehensive Warranty for -01- Year (12 months) as specified in below.
- ~~❖ 5 (Five) Years comprehensive maintenance contract after the expiry of 02 years warranty.~~

Inspection & Tests

General

1. The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified here. The Supplier shall at its own expense and at no cost to the Bank carry out all such tests and/or inspections of the Goods and Related Services as are specified in the tender.
2. The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at the point of delivery and/or at the Goods final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data - shall be furnished to the inspectors at no charge to the bank.
3. The Manuals and Drawings shall be in the ruling language (English) and in such form and numbers as stated in the Contract.
4. Unless and otherwise agreed, the goods and equipment shall not be considered to be completed for the purposes of taking over until such Manuals and Drawing have been supplied to the Purchaser.
5. Installation demonstration is to be arranged by the supplier and the same is to be done within 15 days of the arrival of the equipment at site.

Training.

- 1) Location - **Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar Gujarat.**
- 2) Number of persons - 01 person
- 3) Period of Training - 1 week
- 4) Nature of Training - Operation, maintenance & trouble shooting

Incidental Services

On site Comprehensive Warranty:

- -01- Years (12 months) from Installation & Commissioning and date of acceptance
- Down-time call attendance should be within 72 hours.
- In case the Equipment / System remains non-operational for more than -07- days then warranty period will be extended for the equivalent period for which Equipment / System remained non-operational. Warranty extension in such case shall be done without prejudice to any other Term & condition of the contract.

Delivery Schedule / Time period for completion: 60 Days from the date of Site handover.

Bidders Signature with Stamp and date

Invites sealed Tender / Bid for Interior, Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.

BIDDER'S PROFILE:

All the supporting Documents are required to be submitted with tenders. Details filled in this form must be accompanied by sufficient documentary evidence, in order to verify the correctness of the information. **All the documents should be attested by the bidder.**

Sr. No.	Description	Bidders particulars	Documents Required
C.1	Name of the Bidder/Firm		Attach Registration document.
C.2	Permanent Account Number		Attach supporting document.
C.3	GST No.		Attach supporting document.
C.4	Registered Office address along with Pin code		Attach supporting document.
C.5	Email Address		-
C.6	Phone/Mobile nos.		-
C.7	Year of Establishment		Attach Certificate of Incorporation.
C.8	Status of the firm (Sole Proprietorship / Partnership / Ltd. Co./ Others)		Attach Certificate of Incorporation.
C.9	Name of Director/Partner/Proprietor		Attach supporting document.
C.10	Name of the person who have power of attorney or Authorized Signatory		Please Attach supporting document/ power of attorney.
C.11	Name & Address of Bankers (Solvency certificate from a Bank to be enclosed for indicating satisfactory financial capacity of the organization)		Please Attach copy cancelled Cheque
C.15	Annual Turnover of bidder in 2020-21/ 2021-22/2022-23		There is no need to upload/submit entire voluminous balance sheet. However, one page of summarized balance sheet (Audited) and one page of summarized Profit & Loss Account (Audited) for last 03 years to be submitted in hard copy also
C.18	Details of EMD submitted to Bank of Baroda.		Attach copy of NEFT / RTGS / Cheque / Cash Deposit Counter Slip
C.19	Electric License & Dealership Certificate, if any.		Attach Dealership document with validity

Bidders Signature with Stamp and date

Invites sealed Tender / Bid for Interior, Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.

ELIGIBILITY CRITERIA:

All the supporting Documents are required to be submitted with tenders. Details filled in this form must be accompanied by sufficient documentary evidence, in order to verify the correctness of the information. **All the documents should be attested by the bidder.**

D.1	Prequalification Criteria for Vendor (Bidder) who is submitting the bid. Company who qualifies all the above criteria can participate in the tender directly or indirectly through authorized Business Partner/System Integrator who qualifies below mentioned criteria.		
	Prequalification Criteria	Bidders Response	Documents Required
D.2	Bidder should have made net profits during last three financial years. (2020-2021, 2021-22, 2022-23).	Yes/No.	one page of summarized balance sheet (Audited) and one page of summarized Profit & Loss Account (Audited) for last 03 years to be submitted in hard copy also last three financial
D.3	Bidder Average Annual turnover of the company of last three years ending on Mar'23 should not be less than Rs. 9.0 Lacs.	Yes/No.	
D.4	Bidder should have experience in the past for Interior/Furnishing Works in various office /organization across India during the last 7 years as of April 2023.	Yes/No.	Copy of Purchase Orders/Work completion certificate. (please mention work in Proforma - 1)
D.5	The tenderer(s) in their own name should have satisfactorily executed the work of *similar nature in Semi Govt. /Govt. & Public / Private Sector Organizations during last seven (7) years (up to 30.04.2023) a) Three similar completed works each of value not less than the value equal to Rs. 11.60 Lacs. OR b) Two similar completed works each of value not less than the value equal to Rs. 14.50 lacs. OR C) One similar completed works each of value not less than the value equal to Rs. 23.20 Lacs.	Yes/No.	
D.6	Bidder must be Company / organization Companies Act an Indian registered firm under	Yes/No.	Certificate of incorporation issued by Registrar of Companies
D.7	The tenderer(s) in their own name should have satisfactorily executed the work for Interior/Furnishing in Govt. & Public / Private Sector Organizations during last seven (7) years (up to 30.04.2023).	Yes/No.	Copy of Purchase Orders/Work completion certificate.

* similar nature (Interior/Furnishing Works Including of Electrical, LAN, Cabling, AC Works) of comparable magnitude / value in the past seven years preferably with public sector units/government organisations / reputed corporate houses having annual turnover more than Rs. 100 crore.

Bidders Signature with Stamp and date

Invites sealed Tender / Bid for Interior, Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.

Proforma - 1

(To be sought in conjunction with Annexure - II)

List of Projects Executed by the Organization during the Last -07- Years (as on 30.04.2023) and above.

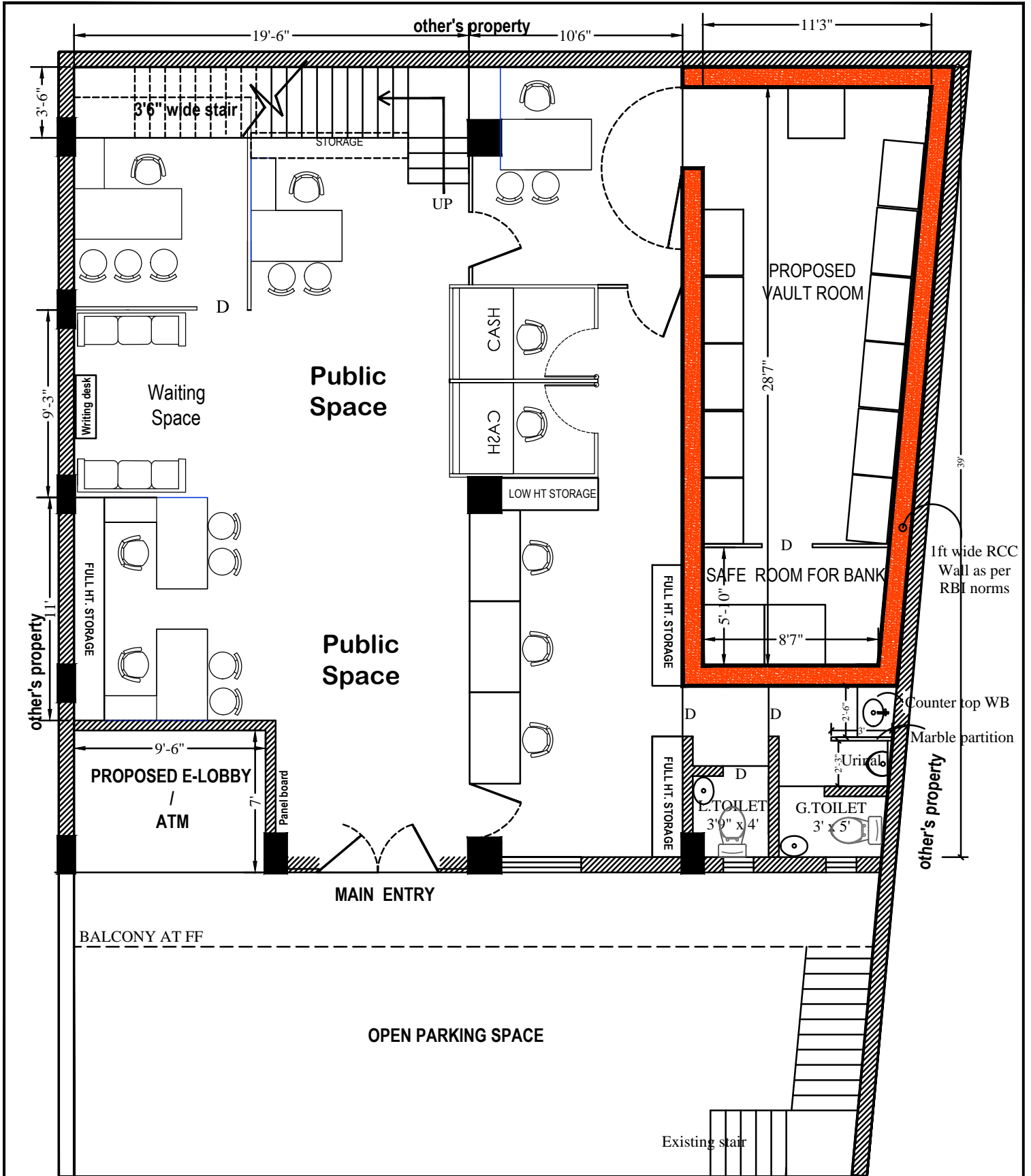
Sr. No.	Name of Work/ project with address.	Name & full postal address of the owner. Specify	Contract Amount (Rs)	Stipulated time of completion (Years)	Actual time of completion (years)	Any other relevant Information. Actual amount of the Project, if increased, give reasons.	Enclose clients certificate for satisfactory Completion.

Notes:

1. Information has to be filled up specifically in this format. Please do not write remark "As indicated in Brochure".
2. Date shall be reckoned from the date of advertisement of the website.
3. For certificates, the issuing authority shall not be less than an Executive In charge.


Bidders Signature with Stamp and date

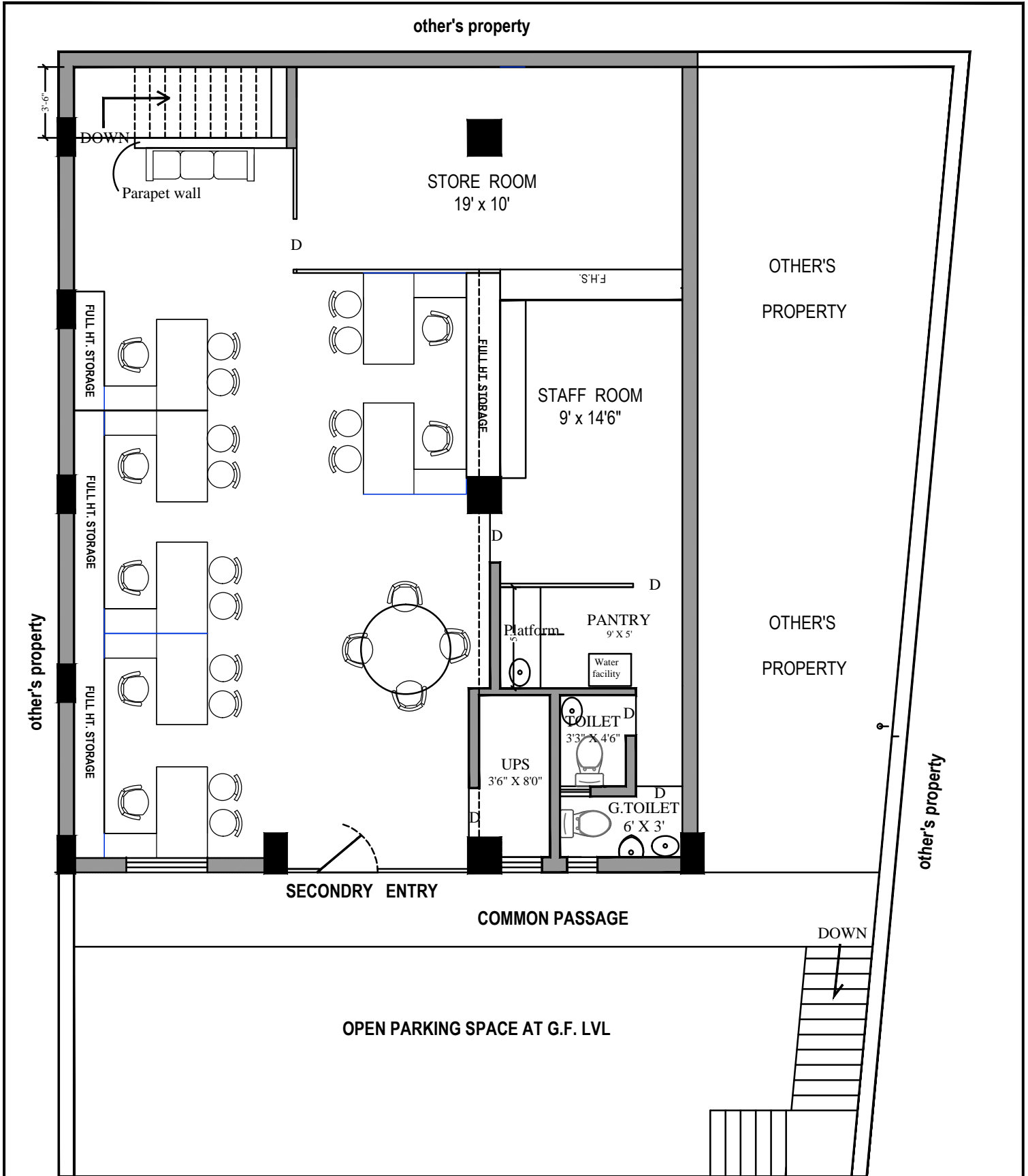
Invites sealed Tender / Bid for Interior, Furnishing works including of Interior Furnishing works, Electrical, LAN, Cabling and Air Conditioning Works at Alternate Premises of Surendranagar Main Branch at Sukh Shanti, Meghani Marg, Nr. Reliance Trendz, Surendranagar, Gujarat.



Sheet 1/2 - TENDER COPY


GROUND FLOOR - ALTERNATIVE - 4

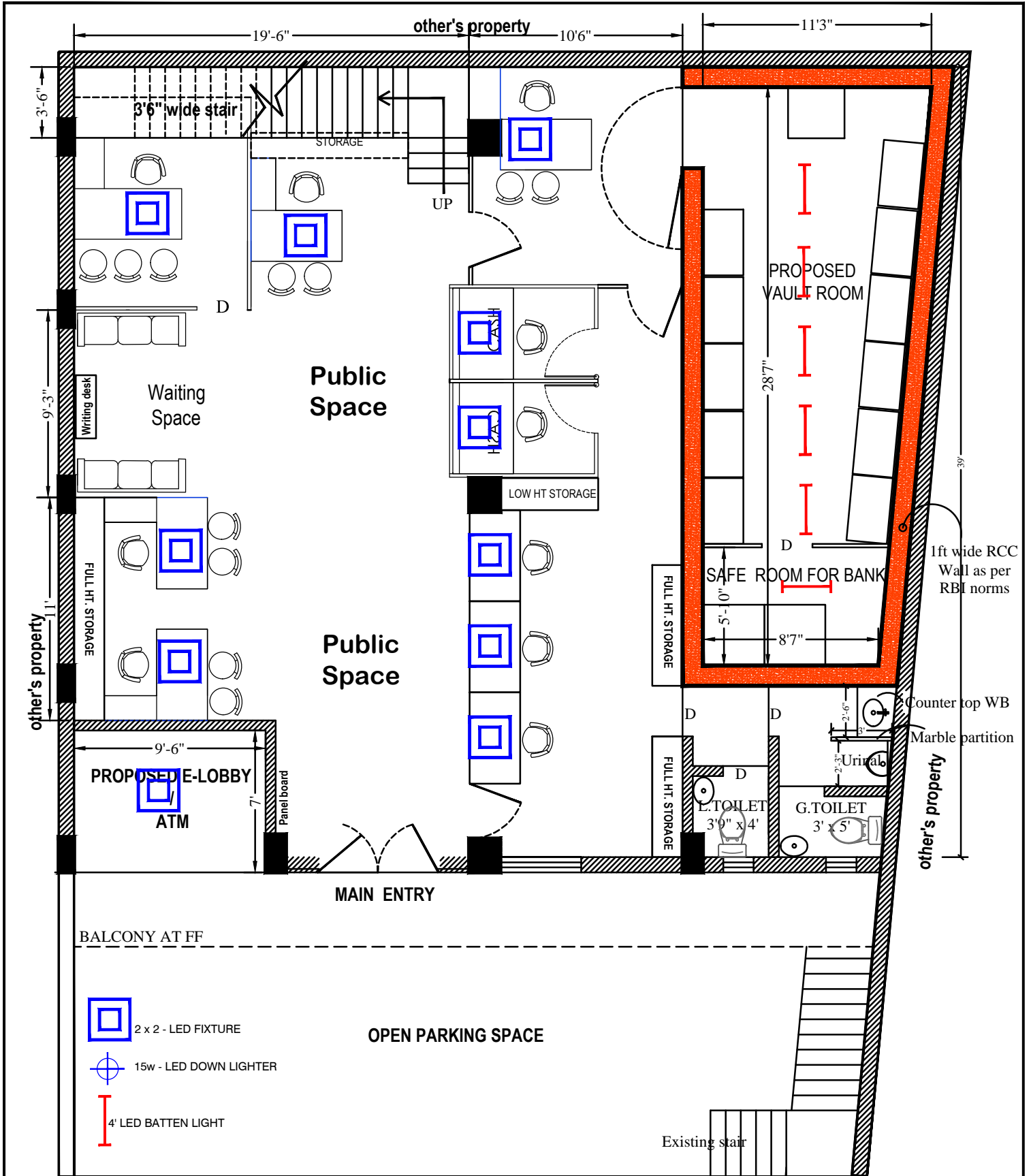
<p>North </p>	<p>PROPOSED INTERIOR LAYOUT FOR BANK OF BARODA - PROPOSED PREMISES (GF+FF) MAIN BRANCH- SURENDRANAGAR</p>		
	<p>PROJECT : BANK INTERIOR - B.O.B-SRN-1 (INSTITUTIONAL)</p>	<p>DRAWING TITLE: INTERIOR LAYOUT TENDER COPY ONLY</p>	



Sheet 2/2- TENDER COPY

FIRST FLOOR - ALTERNATIVE - 4

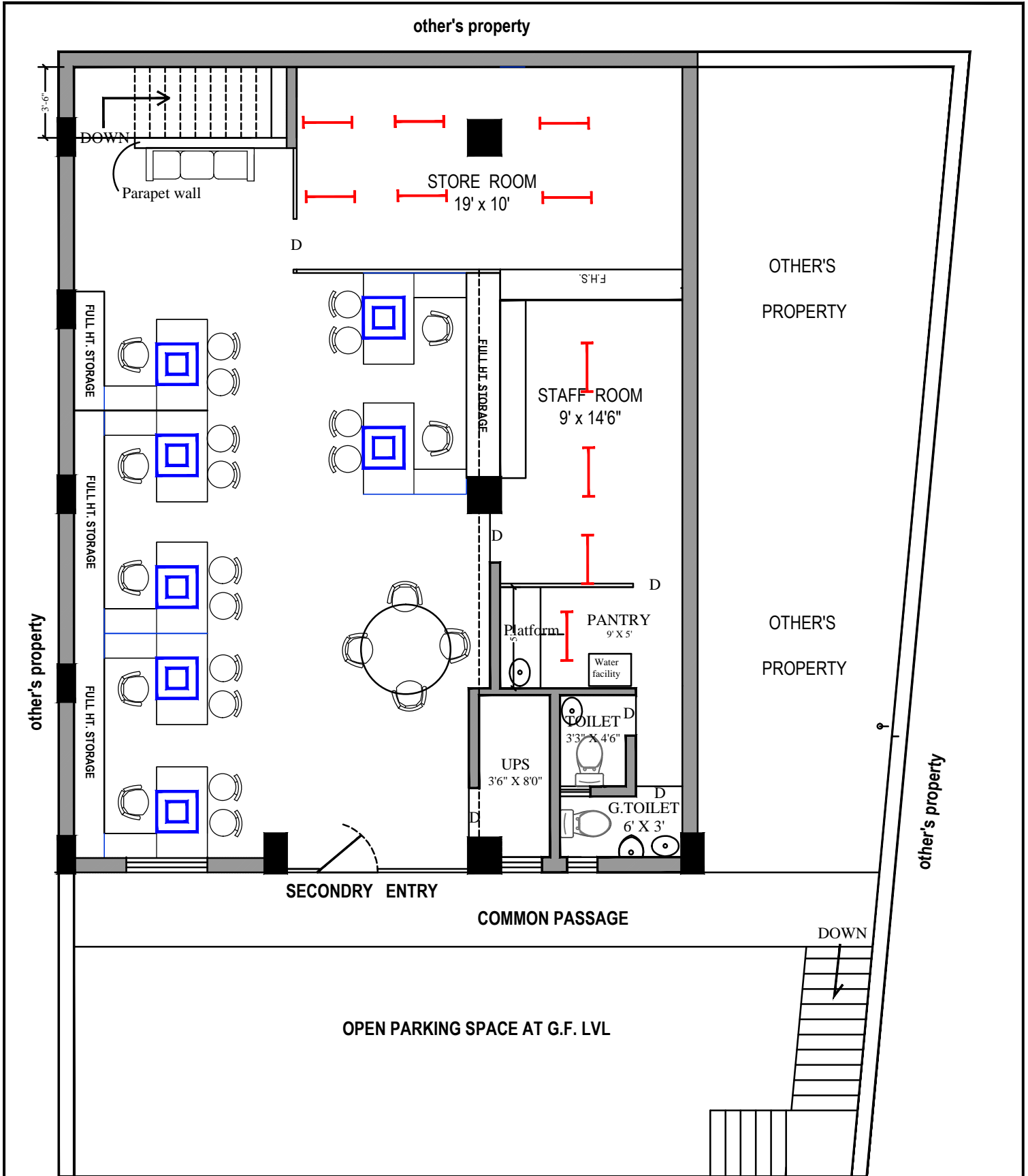
<p>North </p>	<p>PROPOSED INTERIOR LAYOUT FOR BANK OF BARODA -PROPOSED PREMISES (GF+FF) MAIN BRANCH- SURENDRANAGAR</p>		
	<p>PROJECT : BANK INTERIOR - B.O.B-SRN-1 (INSTITUTIONAL)</p>	<p>DRAWING TITLE: INTERIOR LAYOUT TENDER COPY ONLY</p>	



Sheet 1/2 - TENDER COPY

GROUND FLOOR - ALTERNATIVE - 4

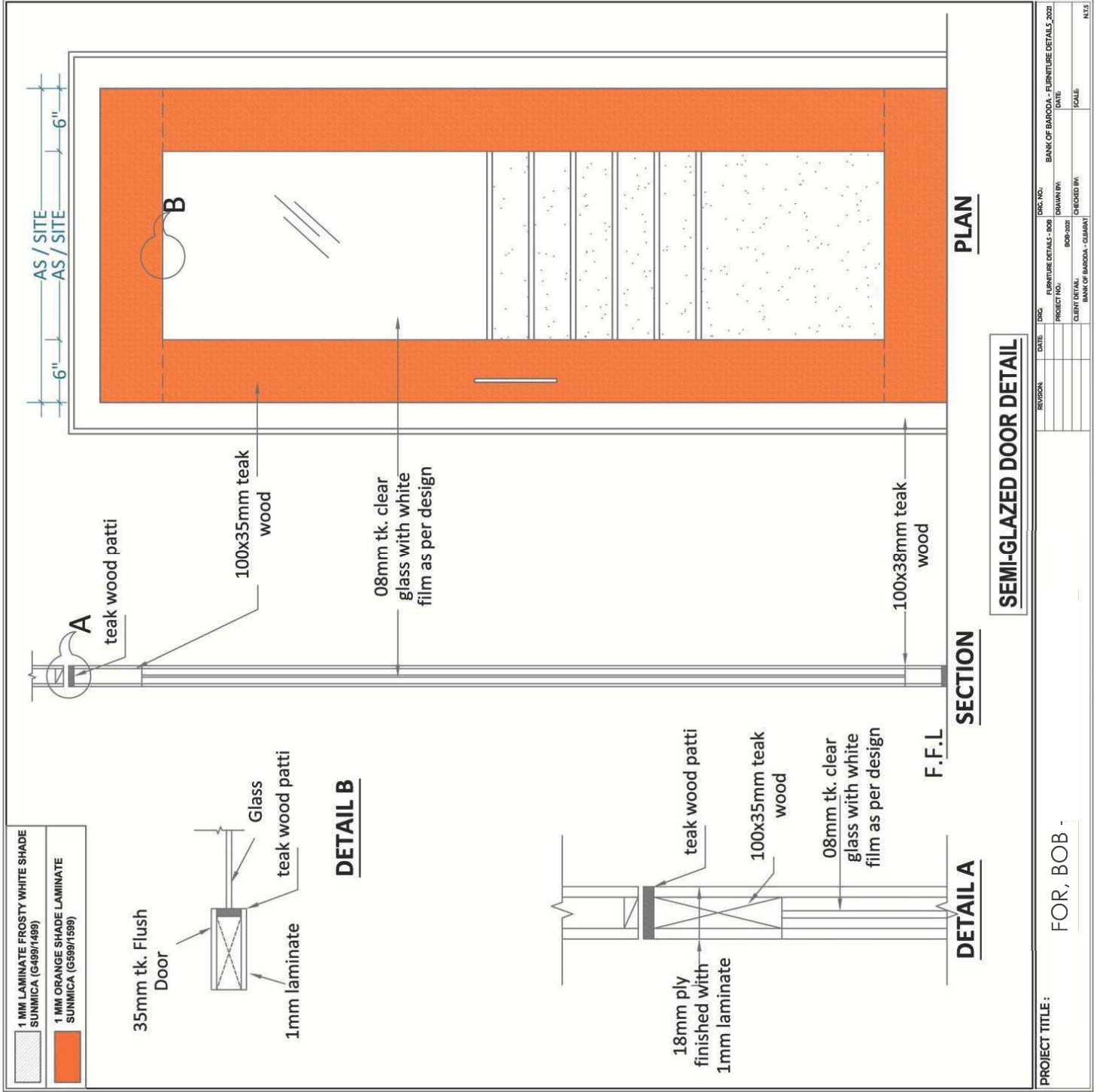
<p>North </p>	<p>PROPOSED INTERIOR LAYOUT FOR BANK OF BARODA - PROPOSED PREMISES (GF+FF) MAIN BRANCH- SURENDRANAGAR</p>		
	<p>PROJECT : BANK INTERIOR - B.O.B-SRN-1 (INSTITUTIONAL)</p>	<p>DRAWING TITLE: FIXTURE LAYOUT TENDER COPY ONLY</p>	

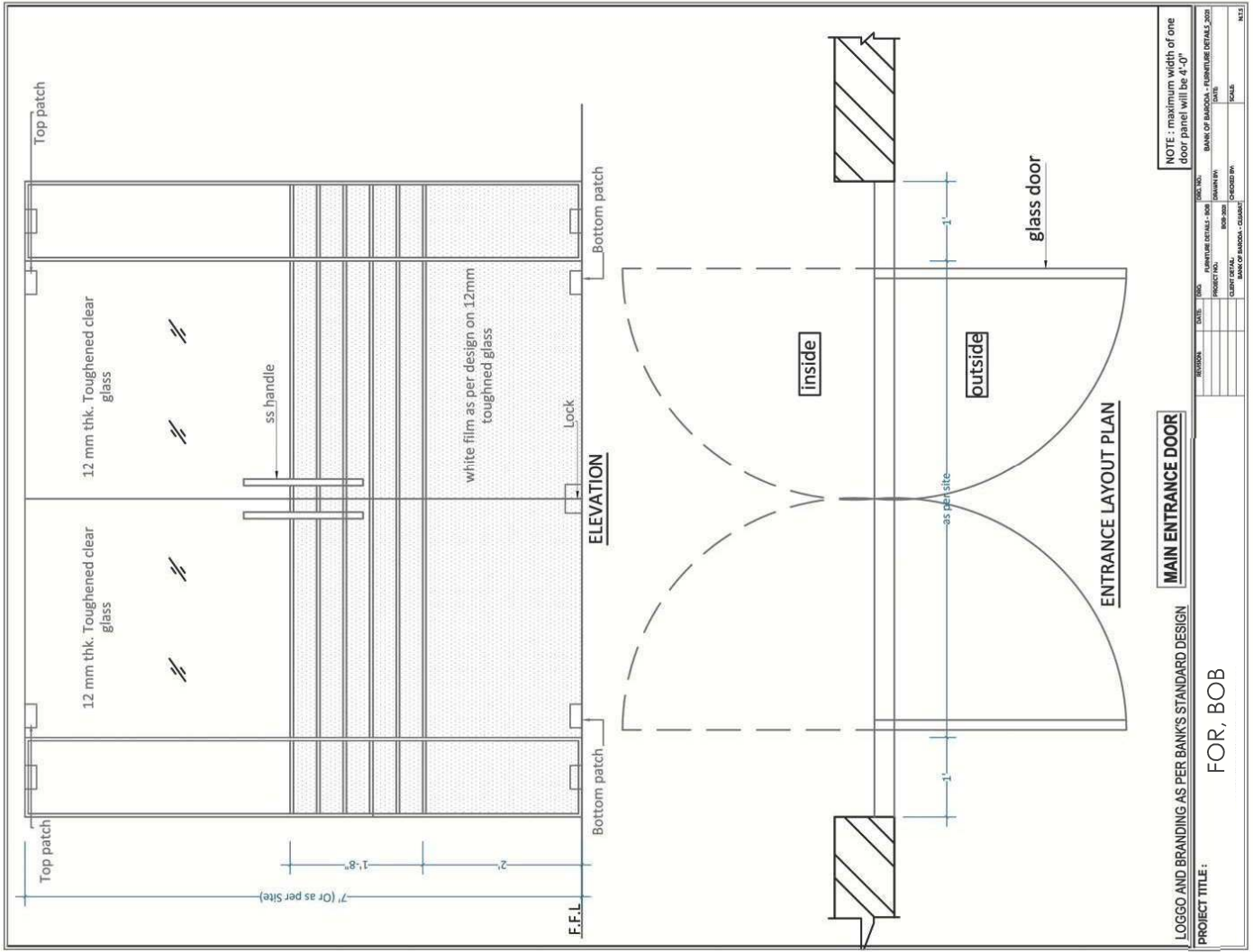


Sheet 2/2- TENDER COPY

FIRST FLOOR - ALTERNATIVE - 4

<p>North </p>	<p>PROPOSED INTERIOR LAYOUT FOR BANK OF BARODA -PROPOSED PREMISES (GF+FF) MAIN BRANCH- SURENDRANAGAR</p>		
	<p>PROJECT : BANK INTERIOR - B.O.B-SRN-1 (INSTITUTIONAL)</p>	<p>DRAWING TITLE: FIXTURE LAYOUT TENDER COPY ONLY</p>	





NOTE : maximum width of one door panel will be 4'-0"

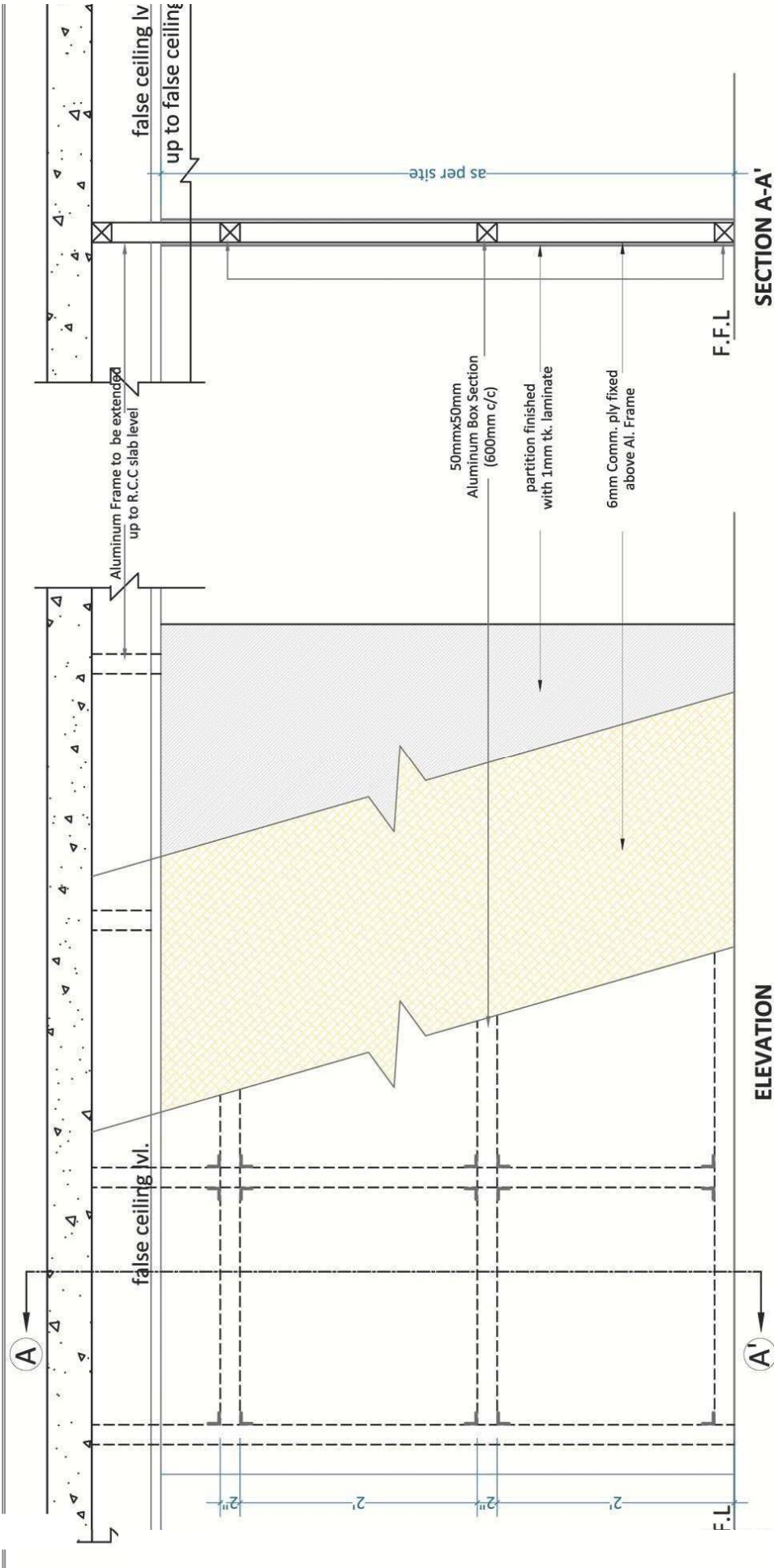
MAIN ENTRANCE DOOR

LOGGO AND BRANDING AS PER BANKS STANDARD DESIGN

PROJECT TITLE : FOR, BOB

REVISION	DATE	ISSUE	PREPARED BY	CHECKED BY	SCALE

PROJECT NO. BOB-001
 CLIENT/DATE BANK OF BARODA - RAIPUR DETAILS 2008
 DRAWN BY BANK OF BARODA - RAIPUR
 CHECKED BY BANK OF BARODA - RAIPUR
 SCALE



	1 MM LAMINATE FROSTY W/ SUNNICA (G489/1489)
	1 MM ORANGE SHADE LAM SUNNICA (G589/1589)

PARTITION - TYPICAL DETAIL

REVISION:	DATE:	DWG. NO.:	BANK OF BARODA - FURNITURE DE
		FURNITURE DETAILS - BOB	DATE:
		PROJECT NO.:	DRAWN BY:
		BOB-2021	
		CLIENT DETAIL:	CHECKED BY:
		BANK OF BARODA - GUJARAT	SCALE:

PROJECT TITLE :

FOR, BOB

