

BANK OF INDIA, AHMEDABAD ZONE

TENDER FOR ELECTRICAL WORK FOR BANK OF INDIA AT DHOLKA BRANCH, DHOLKA.

ISSUED TO :
.....
.....
.....

CLIENT:

CHIEF MANAGER

Bank of India
Zonal Office,
Ahmedabad Zone,
Bhadra, Ahmedabad - 380 001
Phone: 079- 25353379 / 25354159

ARCHITECT:

WISTAAR Architects & Int. Designers

A/702, Narnarayan Complex,
Nr. N'pura Bus stand, Swastik X roads,
Ahmedabad - 380 009
Phone: 079-300876444-46
Fax: 079-26448361

TENDER DOCUMENT ISSUING LETTER

LETTER ISSUING TENDER DOCUMENT FOR ELECTRICAL WORKS for the proposed BANK OF INDIA, DHOLKA BRANCH, at DHOLKA .

This tender document set for the Electrical work of the proposed Bank's branch at DHOLKA BRANCH, DHOLKA , BANK OF INDIA containing One Volume, totaling 1 to 30 pages in Tender and 1 no. drawing are issued.

Name of Tenderer :

Address of Tenderer

The nonrefundable fee for this set of Tender Document is Rs.300.00

The Tender Document is issued on

For
BANK OF INDIA

LETTER SUBMITTING TENDER

To,
The Zonal Manager,
Bank of India

Dear Sir.

With reference to the tender invited by you for the work.

I/ We hereby offer to execute the work under contract at the respective rates mentioned in the schedule of quantities.

I/ We have seen the site, understood the general conditions of contract, special conditions, additional conditions.

I/ We agree to execute the work as per specifications, general conditions of contract, special conditions and additional conditions.

I/ We deposit earnest money **Rs. 5000.00** by demand draft/ pay order which amount shall not carry any interest. I/we do hereby agree that the sum shall be forfeited by the bank in event our tender is accepted & I/We fail to execute the contract when required to do so.

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

Yours faithfully, (Contractor)

Signature of partner/prop. of the firm.

In the presence of witness

BANK OF INDIA
AHMEDABAD ZONAL OFFICE
AT BHADRA, AHMEDABAD

M/s

DATE:

.....
.....
.....

NOTICE INVITING TENDER

1. Bank of India invites tenders from the Bank's approved list Contractors for **Proposed Electrical Works for Bank's Office Premises at DHOLKA BRANCH, DHOLKA .**
2. The blank tender forms can be obtained from the **Office of the Zonal Manager, Engineering Dept., Bank of India, 5th Floor, Bhadra, Ahmedabad – 380 001** between **3.00 PM to 5.00 PM** from **29/10/2009 to 11/11/2009** , on payment of **Rs. 300/- (Rs. Three Hundred Only)** in cash or by pay order/ Demand Draft payable at Ahmedabad, non refundable, in favor of **M/s. WISTAAR Ahmedabad.** or can be down loaded from Bank's web site www.bankofindia.com and said payment can be made along with tender submission.
3. The Tenderer should study all the tender documents, specifications, drawing carefully and understand the same before quoting their rates. In case of any doubts he / they should get it clarified from the Architects **M/s. WISTAAR Architects & Int. Designers, A/702, Narnarayan complex, Nr. N'pura Bus Stop, swastika X Cross, Ahmedabad - 380 009. Phone No. - 079- 30087644-46** but this shall not be a justification for late submission of tender or extension of opening date.
4. The Tenderer should visit the site and get himself acquainted with the site conditions before quoting. He is also expected to know about the availability of electric supply, space for working/ storing material and any other ancillary facilities since these are to be provided by him. (Unless otherwise specified) at his own cost.
5. The Tenderer should quote his rates for all the items in the tender schedule. The incomplete tender can be summarily rejected at the discretion of the Bank management. If there is any discrepancy in rate and amount the unit rate shall be treated as correct.
6. The Tenderer is requested to sign and put his seal on each page of the tender document in token of acceptance of the conditions.

7. The rates quoted shall be valid for a period of 90 days for acceptance from the last day of submission of tender. No upward revision in the rates will be accepted after opening of the tenders.
8. The time for completion of the work is **1 MONTH** from the **1st day** of issue of work order including co-ordination with Furnishing work by other agency
9. Minor modifications / changes may occur to the repairing process, material etc. to suit the conditions, functioning etc. for which no extra charges will be paid.
10. The sealed tenders should be addressed to **The Zonal Manager, Engineering Dept. Ahmedabad Zonal Office, Bank of India, Bhadra, Ahmedabad**. Super scribed with '**Tender for Electric Work at Bank of India DHOLKA BRANCH, at DHOLKA**'. and should reach them not later than **3.00 P. M. on 11/11/2009** . Tenders submitted late will not be accepted.
11. **Earnest Money Deposit (EMD) of Rs. 5,000.00(rupee Five thousand Only)** for Electric Work together shall be deposited with the bank in the form of pay order / Demand Draft payable at Ahmedabad in the name of 'Bank of India' to be converted into Security Deposit for the successful Tenderer. EMD of the unsuccessful Tenderers shall be refunded immediately after the Bank's decision or after 90 days whichever is early.
12. The tenders will be opened at **3.00 PM on 12/11/2009** .
13. The Bank reserves the right to accept any tender or reject all tenders either in whole or in part without assigning any reason thereof. The Bank also reserves the right to split the various items amongst various Tenderers and any claim or correspondence of the Tenderer in this regard shall not be entertained.

Zonal Manager

GENERAL CONDITIONS OF CONTRACT

- 1 The work carried out shall be open for inspection to the Architect, their representatives, Owner or their representatives at any time.
- 2 All the items / material shall be got approved before finally commissioning of the electrical Work.
- 3 The work shall be executed strictly according to the specifications and the directions from the Architect from time to time. If there is any discrepancy between the specifications and the instructions the same shall be pointed out to the Architect well in advance. Any claim in this regard shall not be entertained.
- 4 Unless otherwise specified, all materials required for the work shall have to be arranged by the contractor well in advance. Delay on part of non availability of any particular material shall be to the contractor's account.
- 5 Contractor shall not sub let the work entrusted to him without the prior permission of the Architect and Bank. He will co-operate with other agencies appointed by the Bank and shall give prior markings, recesses, openings etc. required for other agencies. The order in which the work shall be carried out shall be decided by the Architect; however the same shall not be the reason for delaying the work.
- 6 Samples of all the materials brought by the contractor at site shall be got approved with endorsement tag by the Architect and shall remain in safe custody at site till the completion of the job and shall be made available to the Architect or their representatives whenever required. Any change of material, brand other than what is specified in the specifications, conditions shall not be done without the written approval from the Architect, If violated, Architect can reject the items and no payment shall be made for the same, or otherwise the material deviated from the specifications is acceptable for one or the other reason. Necessary cost adjustment shall be made for which contractor shall not have any objection.
- 7 The quantities mentioned in schedule are approximate and may vary to any extent or even be omitted thus altering the aggregate value of the contract. No claim in this regard shall be entertained.
- 8 During the execution of work, if any damage occurs to the property, structure etc. the same shall be made good by the contractor at his own cost.
- 9 Contractor has to arrange water & electricity of his cost.
- 10 Contractor shall arrange to protect their tools, tackles, materials, equipment and the work carried out till handing over the entire completed work from any theft, damage and the owner shall not be responsible for the same.

- 11 The rates quoted shall be firm and final during the currency of contract. No upward revision in rates shall be permitted on account of hike in material prices, labour charges, taxation etc. The rates quoted shall be for finished work and shall be inclusive of labour, material, wastage, transport, loading, unloading, tools, tackles, scaffolding if necessary, profit, all taxes inclusive of sales tax, works contract tax, Professional Tax. ESIS, Octroi, levy, overheads of the contractor etc.
- 12 During the execution of work, if any item is required to complete the work, but not specified in schedule of quantities and no rates are available for the same, then the rate for such item shall be derived based on the actual cost of material and labour involved plus 20 % for overheads, profit plus taxes. However it is the responsibility of the contractor to complete the entire work and there cannot be any excuse that the particular item is not included in schedule.
- 13 No labour below the age of 18 years shall be employed on the work site.
- 14 The contractor shall not be entitled to any compensation for any loss of life, injury or accident happened during the currency of contract, till completion of the entire work and handing over to the owner, the contractor shall be responsible for any accident, injury, loss of life, fire, theft of material etc. and he shall indemnify the owner from any such losses. He may insure his material, workmen etc.
15. Contractor shall protect the work by covering / taping all the lose / live wire openings etc. if necessary to avoid any mishap during the progress of work. It will be the total responsibility of the contractor in case of any accident. The contractor shall indemnify the owner and the Architect from any such loss, damage etc.
16. Contractor shall follow all the safety measures like, using safety belts helmets etc. while carrying out the work.
- 17 Contractor shall engage sufficient expert labour required to carry out the work on the site and follow the rules, regulations, bye laws etc. Laid down by the Local Civic Authority and indemnify the owner and the Architect from any such cause, loss suffered on this account. The Labours working on site would take due care to avoid any hazardous incident and follow all the safety measures.
18. The Earnest Money deposited with the Bank shall be converted in the form of Security Deposit once the work is entrusted to the contractor and shall be refunded after the completion of the work on the basis of Virtual Completion Certificate by the Project Architects. The Earnest money and Security Deposit shall bear no Interest.
19. The Retention money at 10 % of the value of the work done shall be deducted from the bills of the contractor. 50 % of the retention amount shall be refunded after Architect issues the Virtual Completion Certificate. The balance 50 %

retention amount shall be refunded after 12 months from the date of completion on receipt of the No Defect Certificate from the Architect during the defects liability period. The retention money so held shall not bear any interest.

20. The Defects Liability Period for the work shall be 12 months. Any defects arising during this period due to bad workmanship, substandard material etc. shall be made good by the contractor free of cost. In case the contractor fails to rectify the defects within the reasonable period the owner shall be free to get the same rectified through other agency and the cost involved shall be recovered from the amount due to the contractor.
21. The work carried out by the contractor shall jointly be measured. In case the contractor or his representative fails to remain present at the time of joint measurement then the measurements taken by the Architect shall be final and binding on the contractor.
22. During the progress of work there may be minor changes in the material / brand specified for electrification works etc. the contractor shall carry out the same, however the difference in cost of material as certified by the Architect shall be to the owner's account.
23. While the work is in progress, if use of any sub standard material is observed or in case of bad workmanship and if the Architect instructs to dismantle and to redo the same the contractor shall do the same at his own cost and the Architect's decision in this regard shall be final and binding.
24. The full and final payment shall be considered only on satisfactory completion of work and after due certification of the bill by the Architect.
25. The owner shall deduct the income tax (TDS) as per prevailing rules and rate from the payments due to the contractors and certificate having deducted the TDS shall be issued to the contractor.
26. If for any reason the work is required to abandon or the over all value of the contract gets reduced, the contractor shall be paid for the actual work carried out by him at the quoted rates subject to that the work is found satisfactory. No claim or compensation in this regard shall be entertained.
27. The date of commencement shall be the 1st day of receipt of work order and the contractor shall commence the work immediately in consultation with the owner. The unreasonable delay to commence the work shall be liable to cancellation of contract after due notice. If the commencement of the work is delayed by the owner for one or the other reason the contractor shall carry out the work at the same quoted rates if the delay is within the reasonable period.
28. The period of completion for the entire work shall be **1 MONTH** which shall be measured from the 1st day of receipt of work order or the commencement day which ever is earlier.

29. The owner shall be free to terminate the contract by giving proper notice to the contractor if:
- a) Contractor fails to commence the work within the reasonable period when asked to do so
 - b) Fails to show desired progress within the reasonable period despite being instructed to gear up the work.
 - c) Does not follow the instructions given by the Architect.
 - d) The contractor fails to complete the work within the specified period including the extension in time limit if any (either with liquidated damages or without liquidated damages).
30. The contractor can terminate the contract by giving proper notice to the owner if,
- a) The owner fails to instruct the contractor within the reasonable time to commence the work after the work order is issued and contract has been entered in to.
 - b) The owner stops the work for more than 3 months for the reasons not attributing to the contractor's default.
 - c) The owner fails to make the payment to the contractor within a period of one Month from the date of certification of the bill by the Architect without any justifiable grounds.
31. In case the owner terminates the contract for the reasons mentioned above then and in that event the contractor shall be paid for the actual work carried out by him at the rates quoted in the tender / agreed during the negotiations and certified by the Architect, provided the work is found satisfactory. However the Retention money so deducted shall be forfeited.
32. In case the contract is terminated by the contractor for the reasons mentioned in clause 30 then and in that event the contractor shall be paid for the actual work carried out by him at the quoted/ agreed rates and as certified by the Architect. However the retention amount shall be refunded as per clause No19. In such case the Defect's liability period **shall be counted from the date of termination.**
33. The Contractors are required to assist the Project Architects in obtaining any permission/s from the Municipal / Local Authority and / or Liaison with the Authorities. Any out of pocket expenses etc. in this regard shall not be reimbursed to the contractor.

Signature of the owner.

Seal & Signature contractor

**BANK OF INDIA,
DHOLKA BRANCH, DHOLKA .
SPECIAL CONDITIONS OF CONTRACT**

Tender Notice No.	:	
Name of the work	:	Electrical Work
Address	:	Dholka branch Dholka.
Lessee	:	Bank of India
Consultant	:	M/s. WISTAAR Architects & Int. Designers A/702, narnarayan, Nr. N'pura bus Stop, Swastika X roads, Ahmedabad-09 Ph. No. -079-30087644-46
Scope of Work		Electrical Work
Value of Work Electrical Work		Rs. 4,50,000=00
Earnest Money Deposit		Rs.5,000=00
Cost of tender		Rs. 300=00
Sale of Tender		Sr. Manager (Engg. Dept) Ahmedabad Zonal Office, Bank Of India, 5th Floor, Bhadra Building, Ahmedabad – 380 001
Date of Issue Tender		29/10/2009 to 11/11/2009 by 3.00 PM
Last date of submission of tender		11/11/2009 by 3.00 PM
Opening of Tenders		12/11/2009 by 3.00 PM
Defects liability period		Twelve Months (12 Months) after the date of completion
Completion Period		1 MONTH
Liquidated Damages		Rs.1000.00 per day subject to maximum Rs.10,000.00
Interim Payments		Not less than Rs. 75,000 for electrical Work
Period of Honoring Certificate by Consultant		1 Month.
Retention Money		10% of the Bill Value
Release of Retention Money		50% along with Completion Certificate and balance 50% after completion of defects Liability Period of 12 months
Material		All supplied by Contractors as per specified make and approved by the Architect.

ARTICLES OF AGREEMENT

ARTICLES OF AGREEMENT made the _____ day of _____ between the BANK OF INDIA, _____ Branch, Ahmedabad (herein after called "the Employer") of the one part and M/s. _____ having its office at _____ (here in after called "the Contractor") of the other part.

WHEREAS the employer is desirous of execution of electrical work for BANK OF INDIA, _____ Branch, _____ and has caused drawings and specification describing the works to be done prepared by M/s. WISTAAR its Architects.

AND WHEREAS the said Drawings numbered 1 to ___ with ___ layout plan, the Specifications and the Schedule of quantities have been signed by or on behalf of the parties hereto.

AND WHEREAS the contractor has agreed to execute upon and subject to the condition set forth in the Special conditions of Contract and in the schedule of Quantities and Conditions of Contract (all of which are collectively hereinafter referred to as "the said conditions) the works shown upon the said Drawings and/or described in the said specification and included in the schedule of Quantities at the respective rates therein set. forth amounting to the some as there in arrived at or such other sum as shall become payable there under (hereinafter referred to as the said Contact Amount") .

NOW IT IS HEREBY AGREED AS FOLLOWS:

1. In consideration of the said Contract amount, to be paid at the times and the manner set forth in the said Conditions, the Contractor shall upon and subject to the said conditions execute the complete the work shown upon the said Drawings and described in the said specifications and the Schedule of Quantities.
- 2 The employer shall pay the Contractor the amount or such other sum as shall become payable, at the times and in the manner specified in the said Conditions.
3. The term 'the Architect' in the said Condition shall mean the said M/s. WISTAAR or, in the event of their ceasing to be the Architect for the purpose of this Contract for whatever reason, such other person or persons; as shall be nominated for that purpose by the Employer, not being a person to whom the Contractor shall object for reasons considered to be sufficient, by the Employer PROVIDED ALWAYS that no person or persons subsequently appointed to be Architect under this contract shall be entitled to disregard or over rule any previous decisions or approval or direction given or expressed in writing by the architect for the time being.
4. The said Conditions and appendix thereto shall be read and constructed as forming part of this Agreement, and the parties hereto shall respectively abide by, submit them selves to the said conditions and perform the agreements on their part respectively in the said conditions contained.

5. The plans, agreement and documents mentioned herein form the basis of this contract.

6. This Contract is neither a fixed Lump sum Contract nor a Piece Work Contract but is a contract to carry out the work in respect of the entire project on item rate basis to be paid for according actual measured quantities at the rates contained in the schedule of Rates and Probable Quantities or as provided in the said Conditions

7. The Contractor shall afford every reasonable facility for the carrying out of the all works relating to interior civil works, installation of sanitary work and fittings, permanent water supply, electrical installations, fittings and other ancillary works 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.

8. 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 carries out without prejudice to this Contract.

9. Time shall be considered as the essence of this contract and the contractor here by agrees to commence the work soon after the site is made open to him or from the date of issue of intimation to you as provided for in the said conditions of contractor whichever is later and to complete the entire work within six months subject nevertheless to the provisions for extension of time.

10. All payments under this contract will be made only at Ahmedabad

11. All disputes arising out of or in any way connected with this agreement shall be deemed to have arisen at Ahmedabad and only courts in Ahmedabad shall have jurisdiction to determine the same.

12. That the several parts of this contract have been read by the contract and fully understood by the contractor, They further agrees to complete the said work to fullest satisfaction of Architect/employer.

If The Contractor is a partnership or an individual

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 Contract is a Company

IN WITNESS WHEREOF the Employer has set its hands to these presents through its duly authorized official and Contractor has caused its common seal to be affixed hereinto 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.

Signature Clauses:
SIGNED AND DELIVERED by the

(Name and designation)

in the presence of
(1) _____

Address : _____

(2) _____

Address : _____

Witnesses

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

In the presence of
(1) _____

Address : _____

Witnesses

(2) _____

GENERAL INSTRUCTIONS FOR ELECTRICALS WORKS

1. Approval of the Architect/Engineer for Specialized agencies

The Contractor shall take prior approval of the Engineer - in - Charge while selecting Sub electrical Contractor / agencies if the work related to these agencies is in his Scope of Work, and for which no nominated Sub-contractors have been appointed.

Necessary permission with regard to electrical connection from AEC/GEB., shall be arranged by the Contractor if electrical work is within his scope or that of his nominated sub contractor.

The Contractor shall inform the Engineer - in - Charge about his management and staff structure for the project including the name of the Project-in-Charge.

The Contractor shall submit to the Engineer - in - Charge daily and fortnightly reports in the format approved by the Engineer - in - Charge. These reports will show the work plan for the future period and the progress achieved.

The Contractor shall submit to the Engineer - in - Charge samples of materials/products for approval sufficiently in advance of incorporating the same in the works.

The Contractor shall not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing the work, whatever the cause of delay, and the Employer shall not be liable for any claim in respect thereof.

f. Time allowed for carrying out the Works shall be strictly observed by the Contractor. The work through out the Contract Period shall be provided with all due diligence.

2 General Information of the Electrical Sub -Contractor:

The contractor must have to submit the following detail of sub contractor and take an approval from the Architect / Consultants before commencement of electric work at site. (List of approved contractors given in make of material list)

Name of the firm: _____.

Office Address: _____.

Factory / work shop Address. _____.

Telephone

Nos:

_____.

Type of Organization: _____.

appliances, equipment (except those items which will be supplied by the Owner to the contractor at site), necessary for complete provision and testing of the whole electrical installation as specified herein and shown on the drawings. This also includes any material, appliances, equipment not specifically mentioned herein or noted on the drawing as being furnished or installed but which are necessary and customary to make complete installation with all outlets for power, light, telephone conduits, all other conduits and other electrical systems shown in the schedule or described herein, properly connected and in working order.

The work shall include all incidental jobs connected with electrical installation such as excavation for trenches and back filling, cutting/drilling holes through walls/floors and grouting for fixing of fixtures, equipment etc. chiseling in the principal structure is not permitted. In general, the work to be performed under this contract shall comprise of **the following**.

- a.** Medium voltage distribution boards comprising of (ELECTRIC PANEL):
 - Main LT Panel.
 - Power And Motor Control Centers.(PCC & MCC)
 - Power Distribution Board, Lighting Distribution Board. (PDB & LDB)
 - TPN Switch Fuse Units.
 - Capacitor and Capacitor Panel.
- b.** Medium Voltage cables comprising of:
 - Supply & Laying Of MV Cables From PCC/MCC To Motors, Junction Box, and LDB Have Each Unit.
 - MV Cable End Terminations.
 - Cable Tray.
 - Cable Trench.
 - Cable raceway.
- c.** Internal wiring comprises of:
 - Wiring for Light, Ceiling fan, Sockets, Plug- points, Exhaust fan, Computer Points. Cal bell points etc.
 - Supply and Fixing of Luminaries, Lamps, fixtures, fans etc.
 - Lighting DB.
 - Floor raceway.

- Dado trunking.
- d.** External lighting installation comprises of:
- Street light poles complete with FRP control box.
 - Pipe bracket for External light fittings and MS bracket for Flood Light Fittings.
 - Supply and Fixing of weather proof luminaries, lamps, fixtures etc. including wiring connections etc.
 - Cabling including cabling from control box to the light fixture
 - Earthing with suitable size GI conductor
- e.** Telephone/ Computer / wiring installation comprises of:
- Wiring for telephone / Computer outlet points.
 - Extra Low Voltage Signal Cabling.
 - Out door type Telephone Feeder Pillar Box, Tag Box, Junction Boxes Etc.
- f.** Earthing installation comprises of:
- Plate type (CU / GI) earthing station.
 - Earth continuity Strip / Conductor.
- g.** All quantities mentioned in the bills of quantity are approximate and the contractor shall not be eligible for any claim due to any variation in / or omission of any item.
- h.** It is the responsibility of the contractor to co-ordinate with licensee and fulfill all the requirements of licensee at no extra cost.
- 4.** All electrical installations shall be of high quality, safe, complete and fully operational including all necessary items and accessories whether or not specified in detail. All electrical work shall be completed in accordance with the regulations and standards to the satisfaction of the Consultants. The general provisions, special provisions and general requirements apply to all sections of these specifications.
The work shall be carried out simultaneously with building work and shall be continued till it is completed satisfactorily along with the completion of essential portions of the building works.

During the progress of work, completed portion of the building may be occupied and be put to use by the Employer but the contractor will remain fully responsible for the maintenance of electrical installations till the entire

work covered by this contract is satisfactorily completed by him and handed over to the owner.

Accompaniment to Tender.

The Tendered will attach to the Tender, at the time of submission, a List of all the proposed material to be used along with manufacturers name, catalogue and other technical detail. Any deviation from the specifications shall be separately pointed out.

5. Tender Rates.

The rates shall be quoted for each item for units mentioned in Bills of quantity against each item. The rates quoted by the Tenderer shall include charges for bringing in transport, hoisting, loading and unloading at and from the site of works. The rate shall also be inclusive of all taxes, costs, levies, duties, Octroi, labour charges, or any other duties levied by the Government or to be paid to the local authorities. The rate shall also be inclusive of scaffolding, hire of tools and plants, drilling and chiseling holes, grooves in wall, concrete, masonry etc. and making them good.

6. Intent.

It is the intention of the specification and drawings to call for finished work, tested and ready for operation. Whenever the words, "Supply" or "Provide" are used, it shall mean provide and complete, and ready for use. Any apparatus, material or work not shown on drawings but mentioned in the specification, vice versa, or any incidental accessories necessary to make the work complete and perfect in all respects and ready for operation, even if not particularly specified, shall be furnished, delivered and installed by the contractor without additional expense to the client. Minor details not usually shown or specified, but necessary for the proper installation and operation, shall be included in the work and in the Contractor's price, as if herein specified or shown.

7. Interpretation of Project Documents.

- a. The specification, Drawings, and Bills of Quantity shall be interpreted in accordance with good installation practice defined in the appropriate regulations and standards whether specifically referred to or not. If there is any discrepancy or shortfall in the application of the regulations to any aspect of this contract or the contractor considers there is anything detrimental to the standards or inconsistent with his obligations and guarantees, the Consultants shall be informed prior to signing the contract and shall there after inform the contractor in writing the course to be followed. Where the drawings are to a small scale or are expressed in symbolic terms or are in the form of a diagram then exact location of items shall not be inferred and in all cases the work shall be fully integrated with the work of other trades and with the fabric of the building. The Contractor shall appraise the duties of all plant and equipment taking account of any additions or variations, shall inform the Architect of any matters which may

affect the design. In all cases the equipment installed shall be of appropriate rating for the duty it performs.

The Consultant's approval on any matter shall be interpreted acquiescence to the adoption by the Contractor of the submittals, on the basis that they fulfill the design intent. The granting of such approval shall not relieve the Contractor of his contractual responsibilities and obligations.

- b. The Specifications and Bills of Quantity (BOQ) shall be considered as part of this contract and any work of material shown on BOQ and not called for in the specification or vice versa, shall be executed as if specifically called in for both. The drawings indicate the extent and general arrangement 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 indicated on the drawings, however, any minor changes found essential to coordinate the installations of this work with other services shall be made without any additional cost to the owner. The drawings are for the guidance of the contractor, exact locations, distances and levels will be governed by the building. The contractor shall examine all architectural, structural, plumbing and sanitary, air conditioning and electrical drawings before starting the work, and report to the Consultants any discrepancies, which in his opinion appear, on them, and get them clarified.

8. Regulations and Standards.

The installation shall conform in all respects to Indian standard code of Practice for Electrical Wiring installation IS: 732 -1963 and IS: 2214-1963. It shall also be in conformity with the current Indian Electricity Rules, Indian Electricity Act, National Electrical Code and Regulations of the local Electrical Supply Authority in so far as these become applicable to the installation. Wherever this specification calls for a higher standard of material and/or workmanship than those required by any of the above regulations then this specification shall take precedence over the said regulations and standard. In general, the materials equipment and workmanship not covered by the above shall conform to the relevant Indian Standards.

The electrical installation work shall follow Codes, Indian standard specifications and Rules (within the best meaning of the same) under this contract.

9. Actual Route of Cables and Conduits.

The location of the conduits, cables, panel boards etc., is only indicative, therefore, the actual route of cables and conduits may differ from the plans according to the details of the building construction and the conditions of executions of the installations.

The contractor shall supply and install at his expense all secondary materials and special fittings found necessary to overcome the interference and to supply the modifications on the route of cables and conduits that are found necessary during the work, to the complete satisfaction of the owner's representative.

10. Conduit Layout.

Prior to the laying and fixing of the conduits, the contractor shall submit to the Architect, detailed layout plans of the conduit network and get the same approved. The layout plan shall contain particulars regarding size and routes of the conduits, number and size of wires carried and location of the inspection, pull and junction boxes provided along the routes of these conduits.

11. Drilling Cutting:

The contractor shall have to do all drillings and cutting of walls or other parts of the building for the complete and proper installation of the conduits, cable, panel boards and other equipment.

Beams, girders and other principal structural members shall not be cut or drilled unless prior permission has been granted by the Structural Consultants. If such drilling and cutting is made on finished surfaces, the surfaces shall be made good by repair or replacement by the contractor at his own expenses.

12. Inspection and Testing.

The Architect / Engineer / Employer / Consultants reserves the right to request inspection and testing at manufacturer's works at all reasonable times during manufacture of items for this contract. Tests on site of completed works shall demonstrate, among other things :

1. That the equipment installed complies with specification in all particulars and is of the correct rating for the duty and site conditions.
2. That all items operate efficiently and quietly to meet the specified requirements.
3. That all circuits are correctly fused and protected and those protective devices are properly coordinated.
4. That all non-current carrying metal work is properly and safely grounded in accordance with the specifications.

The contractor shall provide all necessary instruments and labor for testing, shall make adequate records of test procedures and readings, shall repeat any tests requested by the Architect/Engineer and shall provide test certificates signed by a properly authorized person. Such test certificates shall cover all works.

13. Price Details.

At anytime and at the request of the Architect/Engineer the contract shall provide details or break up of costs and prices of any part or parts of the works.

14. Test Certificates.

The contractor shall submit test certificates for all the electrical material/system. These shall be issued by a government recognized inspection office certifying that all equipment, materials, construction and functions are in agreement with the requirements of these specifications and accepted standards.

15. Instruction Manual.

The contractor shall prepare and produce instruction, operation and maintenance manuals in English for the use, operation and the maintenance of the supplied equipment and installations, and submit to the Architect/Engineer at the time of handing over. The number of copies shall be in accordance with the general conditions of contract.

16. Samples and Catalogues.

Before ordering the material necessary for these installations, the contractor shall submit to the Employer / consultants for approval, a sample of every kind of material such as cables, conductors, conduits, switches, socket outlets, circuit breakers, lighting fixtures, boxes etc., along with the catalogues. For major items such as switchboards, the submission of catalogues shall be enough. Prior to ordering any electrical equipment/ material/system, the contractor shall submit to the Employer / Consultants, the catalogues, along with samples, at least from three different manufacturer. After the selection of manufacturer by the Employer / Consultants contractor shall arrange inspection and testing at the manufacturer's factory or assembly shop for final approval. No material shall be procured prior to the approval of the Employer / Consultants.

17. As Built Drawings.

At the completion of work and before issuance of certificate of virtual completion the contractor shall submit to the Consultant, layout drawing drawn at appropriate scale indicating the complete Electrical system "as installed". These drawings must provide:

1. Location and size of conduits, inspection, junction, and pull boxes.
2. Number and size of conductors.

3. Location and rating of sockets and switches containing the light and power outlets.
4. Location and details of distribution boards, main switches, switch gear and other particulars.
5. A complete wiring diagram, as installed and scheduled drawings showing all connections in the complete Electrical system.
6. Location of outlets, junction boxes, sizes of various conduits for telephone network.
7. Location of all Earthing stations, route and size of all Earthing conductors, Manholes etc.
8. Route and particulars of all cables.
9. Three sets of drawings are to be provided for approval and after approval of all drawings, three sets of all drawings along with one set of tracing are to be provided.

18. Completion Certificate.

On completion of the electrical installation (or an extension to an installation) a certificate shall be furnished by the contractor countersigned by the licensed supervisor, 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 concerned authorities.

19. Defects Liability.

Defects liability period shall mean 12 calendar months after the Consultants have issued certificate of completion of the whole work. The certificate of completion shall be issued after the necessary tests have been carried out to the satisfaction of Consultants and the required drawing are submitted. The contractor shall make good at his own cost and to the satisfaction of the Consultant, all defects or other faults arising in the opinion of the Consultant out of bad workmanship or faulty materials not in accordance with the drawings, I.S.S. or I.E. Act and the Rules and Regulations under which it may appear within, Twelve months after completion of the work.

PROJECT: PROPOSED IELECTRIC WORKS FOR BANK'S OFFICE PREMISES AT DHOLKA BRANCH, DHOLKA.

CLIENTS: ZONAL OFFICE, AHMEDABAD ZONE, BANK OF INDIA BUILDING, 5TH FLOOR, BHADRA, AHMEDABAD-380 001.

CONSULTANTS: WISTAAR, A/702, NARNARAYAN, NR. N'PURA BUS STOP, SWASTIK X ROADS, AHMEDABAD-380 009.

SR. NO.	ITEM DESCRIPTION	QTY.	RATE Rs.	UNIT	AMOUNT Rs.
1.0	ELECTRICAL WORK				
1.1	Supply, installation, testing and commissioning of following point wiring as per the specifications and drg. The unit rate for the switch board and further to point outlet including all hardware, connector strips, fan hook, outlet including all hardware ,outlet boxes ,switch board ,switch plates ,switches, wire conduits etc. A point shall include in addition to phase and natural wire ,a pvc insulated earth –continuing wire from L.P. to the final termination at outlet points .All the wiring should be done in concealed open manner on slab /wall/false ceiling .The wiring should be done with rigid PVC conduits/casing –capping having minimum of 2 mm wall thickness and minimum 19mm dia with 440v grade PVC insulated .ISI approved copper conductor wire ,with approved make switches and accessories with company boxes for point outlet and SB and with all required hardware accessories to complete the wiring No junction boxes are allowed any where in the wiring All joints shall be done at point outlet on switch boards only .In between joints are not allowed anywhere. The wiring shall be done as per IS 732 and IS 4648.with FRLS wires and MMS conduits only.				
	a) Making Zari in the wall & sami finishing the surface.				
	b) Ball and socket joint wherever required.				
	c) Earthing of fittings				
	d) Electrical connections from the outlet points to the fixture with 3 core flexible				

	normal point wire.				
	e) The size of the wire will be as follows normal point wiring				
	From SB to point outlet boxes.				
	Phase - neutral : 1.5 sq mm Earth : 1.0 sq mm SB mains from I. P. to SB from I. p. to 5 Amp Plug Power Point Phase : Neutral 2.5 sq mm Earth : 1.5 sq. mm Wiring for 15 Amp. Plug point for printer & other appliances Phase - neutral : 4.0 sq mm Earth : 2.5 sq mm Wiring for 20 Amp. Plug point for A. C. Phase -neutral : 6.0 sq mm. Earth : 2.5 sq mm Two parallel 15 Amp. Plug points for first point. Phase -neutral : 6.0 sq mm. Earth : 2.5 sq mm For second point looping. Phase : neutral : 4.00 sq mm Earth : 2.5 sq mm				
	(All the Point wiring includes length of wire from Point to DB)				
1.1	One light point controlled by one 5 Amp. Switch	20		no	
1.2	Two light points controlled by one 5 Amp. Switch.	15		no	
1.3	Three light points controlled by one 5 Amp .switch.	2			
1.4	One 5 Amp. 5 pin socket outlet controlled by one 5 Amp. Switch looped on switch board.	10		no	
1.5	Three 5 Amp. 5 pin socket outlet controlled by one 15 Amp. switch at convenient location for computer UPS power supply with 4 Amp SP MCB- 1 No. with indicating lamp arrangement	15		no	
1.6	Two 5 Amp. 5 pin socket outlet controlled by one 5 Amp. switch at convenient location for row power point	15		no	
1.7	One 5 Amp. 5 pin socket outlet controlled by one 5 Amp .switch at other convenient location for exhaust fan& wall fans etc.	12		no	
1.8	One bell point controlled by one bell push, acknowledgement type electrical/musical /dingdong type buzzer/bell.	2		no	
1.9	One 15 Amp 6 pin socket outlet controlled by one 15 Amp.	10		no	
	Switch with indicator for printers and other				

	appliances.				
1.10	One 20 Amp 6 pin socket outlet controlled by one 20 Amp.	7		no	
	Switch with indicator for A.C Unit				
1a	Wiring Mains in open PVC pipe				
	(A) 2.5 Sq.mm with earth wire single phase 3 wire	200		Mtr	
	(B) 4.0 Sq.mm with earth wire single phase 3 wire	100		Mtr	
2.0	CABLES & CABLE TERMINATIONS :				
	Supplying & laying PVC armoured cable of 1100 V grade of scoper /conductor(as specified)of following sizes in ready made trench mounted on wall with necessary clamping arrangement or in preload RCC Hume pipe with necessary cable identification lugs at both ends, digging of trench and its filling with second call bricks, sand. The cable shall ISI mark and conforming to latest ISS. All the cable shall be terminated with suitable sizes of Lugs.				
2.1	3c x 10 sq mm Copper Flexible cable (for UPS Input / Output)	10		Mtr	
2.2	4c x 16 sq mm Copper armoured cable (Panel to UPS DB)	20		Mtr	
2.3	4 x 25 sq mm Copper armoured cable(E. Meter to panel)	40		Mtr	
3.0	EARTHING				
3.1	Providing & erecting earthing as per drawing complete earth plate size 600 X 600 X 3.15 mm & 25 X 3.15mm copper strip at the technically respective position & digging of earth 2 mtr. depth & refilling with charcoal & salt complete with masonry work Pit chamber of cast - iron cover plate having lockable arrangement& watering pipe & guide pipe of suitable size to the earth pit. (for Lighting & UPS separate earth pit)	2		no	
3.2	Supply and laying of CU strip of 25 x 3mm thick with proper saddling with minimum distance at 1.5 feet.	25		Mtr	
4.0	FIXTURES AND FITTINGS :				
	Installation, testing and commissioning of the following luminaries, fixtures and fittings. The fixtures shall be installed on wall, false ceiling etc. and as per the manufacturer instructions. The job also includes the connection of the fixture with outlet point using 3 core flexible wire wherever the lighting fixtures are there				
4.1	2 x 36 W 600X600 mm Mirror optic CFL type fitting	18		no	

4.2	2 x 18 W CFL Down light fitting	12		no	
4.3	1 x 18 W CFL Down light fitting	5		no	
4.4	1 x 11 W Mini light fitting	4		no	
4.5	1 x 40 W Patti type fitting	10		no	
4.6	16 w cfl lamp	6		no	
4.7	48" ceiling fan	4		no	
4.8	T5 type tube light	10		no	
4.9	Exhaust Fan fitting	3		no	
4.10	Wall Fan	6		no	
5.0	PANEL BOARD / DISTRIBUTION BOARDS				
5.1	Supplying and erecting complete with 14/16 SWG complete floor / wall mountain type with required compartment including cable end box and gland / termination as required.	1		no	
	S.F.U. (HRC type) 250 A - 1 no.				
5.2	Supplying and erecting complete with 14/16 SWG complete floor / wall mounted type with required compartment including meters & lamps with following materials	1		no	
	S.F.U. (HRC type) 160 A - 1 no.				
	EL+MCB-63 A FP 100mA - 2nos & 40 A FP 100mA EL+MCB-1no				
	A meter & V meter with selector switch (digital)				
	R Y B Lamp with indicator and required cable glands etc.				
5.3	Supplying and installing, testing and commissioning of DB with following ; (for Lighting)	1		no	
	Incoming : 63 A FP EL + MCB - 1no.				
	Outgoing : 40 A DP MCB - 3 nos				
	16/10/25 Amp. SP MCB -12 nos.				
5.4	Supplying and installing, testing and commissioning of DB	1		no	
	with following ; (for A.C. Units)				
	Incoming: 63 A FP EL + MCB - 1no.				
	Outgoing : 40 A DP MCB - 10 nos				
5.5	Supplying, installing, testing & commission of distribution board with following : (for UPS units)	2		no	
	Incoming: 63 A DP 100m A (EL + MCB) -1no.				
	Outgoing : 40 DP MCB - 2 No & 10/16 A SP MCB - 12 nos				
5.6	Supplying, installing testing & commission of Distribution	2		no	
	board with following : (For UPS Units) RR-PCE Insulated and				
	Industrial Plugs Socket boards with 40 DP MCB – 1no				
	(FOR UPS INPUT AND OUTPUT SUPPLY ONLY)				

5.7	200AMPTPN SFU supply & fixing for G.E.B. power supply S.F.U. (HRC type) 250 A - 1 no.	1		no	
6.0	INTERCOM TELEPHONE :				
6.1	Supply and laying of 5 Pair telephone wire ISI marked PVC insulated copper conductor wire same as clause no.1 of internal wiring from main supply to EP ABX	30		mtr	
6.2	Supply and laying of 2 pair telephone wire ISI marked PVC Insulated 0.63m sq mm. Copper conductor wire same as clause No. 1 of internal wiring from EPBEX to the various tables as per the requirement complete in all respect as per the drawing an Architect or consultant.	175		mtr	
6.3	Supply & installation of RJ - 11 type Tel. Socket.	10		no	
7.0	MUSIC SYSTEM :				
7.1	Supplying & providing of 0.75 sq mm twin same as clause no. 1 of internal wiring from music amplifier to various speakers as per the requirement complete in all respect as per the drawing and architect or consultant	125		mtr	
7.2	Supply & installation of 6 inch round concealed / wall type speaker with necessary attachment as per requirement. Modular Box type volume controls to be provided for each speakers	8		no	
7.3	Supply and Errection of DVD/CD/Radio music system with all built in facilities and amplifier to operate the complete controls of music speakers etc.	1		no	
8.0	LAN / STRUCTURE CABLING WORK :				
8.1	Supply and laying of 4 PAIR UTP LAN cable - CAT-5 in underground /wall in 1.5mm thick PVC pipe of25mm dia with proper junction box for maintenance purpose from server room to each work station(D - LINK make	225		mtr	
8.2	Supply and installation at CAT -5 information outlet with fore plate and surface making Box with crimping of LAN cable (Make D- link	12		no	
8.3	Supply & testing at patch cord.				
a	Length 1 Meter (Make D- link)	12		no	
b	Length 2 Meter (Make D- link)	12		no	
8.4	Supply, installation & testing of 9 U Rack with 2 farns&power point having two shelf in the rack	1		no	
Total of Electrical					

BANK OF INDIA

ZONAL OFFICE, AHMEDABAD ZONE, BHADRA AHMEDABAD

NAME OF WORK: PROPOSED ELECTRICAL WORKS FOR BANK'S OFFICE PREMISES AT DHOLKA BRANCH.

GENERAL SUMMARY OF COST SHEET

SR. NO.	DESCRIPTION	AMOUNT IN RS.
---------	-------------	---------------

1.	ELECTRIAL WORKS	Rs. _____
----	-----------------	-----------

(In Words : _____
_____ Only).

SIGN OF CONTRACTOR

PLACE

ADDRESS

DATE

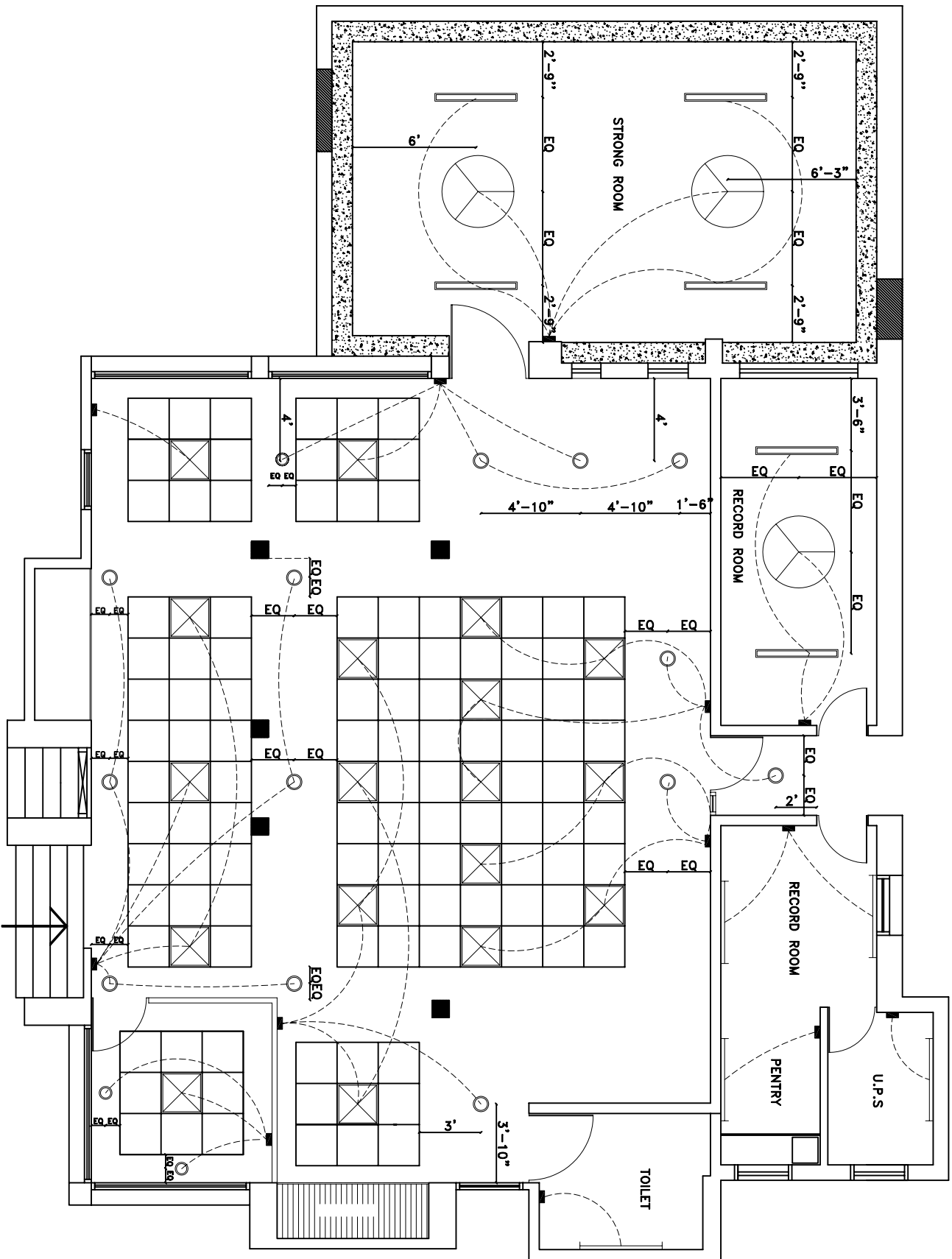
SEAL

LIST OF APPROVED MAKE FOR THE MATERIALS TOBE USED

MCB/MCB-DB	-	Hager/MDS/ABB
SWITCHES AND ACCESSORIES	-	MK India/Toyoma/ABB
PVC CONDUIT – ISI – MMS	-	SERARD/PRESICION/BEC
ELECT PVC WIRES FLEXIBLE	-	Finolex FRLS/ Havells / RR Kable
PVC TUNKING/PIPES AND ACCESSORIES	-	Precision/Clipsal
ARMOURED CABLE	-	Finolex, Polycab, Gloster
CABLE LUGS AND SOCKETS	-	Dowell's/3D
CONNECTORS	-	Elmox/Connectwel
MCCB	-	L & T/ Siemens MDS for 63 A
ELECB / RCCB	-	MDS/Haeger/ABB
TELEPHONE WIRES & CABLES	-	Delton/National
METAL CLAD SOCKET	-	MDS/Clipsal/Hager
PVC JUNCTION BOX	-	Precision/Clipsal
SWITCH BOARDS	-	MK India/ Toyoma/ABB
EXHAUST FAN	-	Usha/Khaitan/GEC
WALL/PEDESTAL FANS	-	Crompton/Usha
SPEAKERS	-	Sonu/Bosch/Philips
LIGHT FIXTURES	-	Philips/Wipro/Bajaj/Crompton
SFU & HRC FUSES	-	L & T/Siemens/Standard.

[a]Consultants reserve the right to add or delete name of any manufacture as and when required.

[b]Consultants reserve rights to select any of the specified brands mentioned above.



PROJECT TITLE:
 INTERIOR FOR BANK OF INDIA DHOLKA BRANCH.

DRAWING TITLE:
 ELECTRICAL LAY OUT

DEALT BY: JIGNESH.
 CHK. BY: NORTH

DATE: 07/09/09
 SCALE: 1"=6'-6"

ALT.NO: NORTH

FILE: BO-FUR

WISTAR
 ARCHITECTS & INTERIOR DESIGNERS
 A/702, NAR NARAYAN
 NIRJANRANGPURA P.O.,
 SWASTIK CROSS ROADS,
 AHMEDABAD - 380 009.
 TELE FAX : 079 - 26 44 83 61.
 E-Mail : wistarc@canal.net