

TENDER DOCUMENT

Technical Bid [Electrical]

PROPOSED CONSTRUCTION OF ADMINISTRATIVE OFFICE FOR

Saptagiri Grameena Bank

AT

SURVEY No. 261/3, VELLORE ROAD, CHITTOOR-517002

DATE OF ISSUE: - 30.07.2022

TENDER SUBMISSION ON: - 29.08.2022 AT 3.00 P.M.

TENDER OPENING: 29.08.2022 AT 3.30 P.M

COMPLETION PERIOD – ALONG WITH CIVIL WORKS



SAPTAGIRI GRAMEENA BANK
Head office, Chittoor

Sai Yashus, 3rd FLOOR, VELLORE ROAD, CHITTOOR-517 002, Ph: 08572233598

Architects

KANAMADI AND ASSOCIATES

#58, First Floor, 11th Cross, Malleswaram, Bangalore -560 003

Head Office : # 19/565-11, 3rd floor, Sai Yashus, Vellore Road, CHITTOOR - 517002.

Email : headoffice@sqbank.in, Website : www.saptagirigrameenabank.in



Saptagiri Grameena Bank
(Public Sector RRB : Sponsored by Indian Bank)

సప్తగిరి గ్రామాణ బ్యాంక్
(ప్రభుత్వరంగ సంస్థ : ఇండియన్ బ్యాంక్ వ్రాయాజీతం)

सप्तगिरि ग्रामीण बैंक
(सार्वजनिक क्षेत्र आरआरबी : इंडियन बैंक द्वारा प्रायोजित)

Ph: 080 23347210, Email: kanamadiassociates@gmail.com

Head Office : # 19/565-11, 3rd floor, Sai Yashus, Vellore Road, CHITTOOR - 517002.
Email : headoffice@sgbank.in, Website : www.saptagirigrameenabank.in

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Declaration (Blacklisted/Debarred)
Pre-Contract INTEGRITY PACT duly signed in stamp paper of Rs.200/-

Sl. No.	CHECK LIST
The 1 st cover or envelope should contain following details:	
1.	Work order & Completion certificate on similar works executed as stated in the Pre-qualification criteria of point no. 2
2.	CA certificate & Audited balance sheet on average annual financial turnover as stated in the Pre-qualification criteria of point no. 1
3.	Tender fee Rs. 6,000/- (Non-Refundable)
4.	DD of Rs. 61,000/- towards EMD (Refundable)
5.	Pre-Contract INTEGRITY PACT duly signed in stamp paper of Rs.200/-
The 2 nd sealed cover or envelope should contain only PRICE BID	

NOTICE INVITING TENDER

Saptagiri Grameen Bank, Head Office, Chittoor invites sealed & super scribed tenders from eligible contractors under two bid systems (Technical & Price Bid) for PROPOSED ELECTRICAL WORK FOR HEAD OFFICE, REGIONAL OFFICE & BRANCH FOR SAPTAGIRI GRAMEENA BANK @ SUVERY No. 261/3, VELLORE ROAD, CHITTOOR-517002

Tender documents can be downloaded from bank's official website <https://www.saptagirigrameenabank.in> tenders' section.

- Last Date and Time for submission of Technical & Price Bids: 29.08.2022 up to 03:00 pm**
- Date and Time of Opening of Technical Bid: 29.08.2022 at 03:30 PM**
- In the event of the date/s mentioned above being declared subsequently as holiday/s for the Purchaser's Office, the due date for meeting, submission and opening of bids will be the next working day at the same venue and time.
- In order to provide reasonable time to the Prospective Bidders to take necessary action in preparing their Tenders / Bids as per the Addendums / Amendments, Bank may, at its discretion extend the deadline for the submission of Tenders / Bids and other allied time frames, which are linked with that deadline.
- Earnest Money Deposit: An amount of **Rs.61,000/-** by DD drawn in favor of "Saptagiri Grameena Bank" payable at Chittoor, towards EMD should be enclosed along with the Technical Bid only. Tenders without EMD shall be liable for rejection. No interest shall be payable on EMD.
- Firms registered with NSIC (National Small Industries Corporation) & MSME are exempted from submission of EMD amount. A copy of Valid NSIC certificate/MSME Certificate is to be submitted for the same.
- Technical Bids received without enclosure of EMD will be summarily rejected. Please note that Bank will not be responsible for any delay in submission of Tender.
- Acceptance / Rejection of the Tender is entirely at the discretion of the bank.
- Tenders received after the deadline for submission will not be considered.
- Unsealed tenders received are liable for rejection.
- Any modification/corrigendum shall be uploaded on Bank's website only.
Pre bid meeting will be conducted on 22.08.2022 at 03:00 PM, bidders may attend the meeting at HEAD OFFICE, Sai Yashus, 3RD FLOOR, VELLORE ROAD, CHITTOOR-517002, Ph: 08572233598

General Manager,

Saptagiri Grameena Bank
Head Office, Chittoor

PRE-QUALIFICATION CRITERIA

1. The average annual turnover of the bidder should be at least **Rs.40.00 lakhs** during the last 3 financial years, ending 31st March 2021. (Audited balance sheets and CA certificate to be enclosed).
2. The bidder should have successfully completed similar works during the last 7 years (i.e. prior to 31.06.2021) in Central/State Govt. departments., Public Sector Undertakings, Banks, reputed private sector, multinational companies & institutions in either of the following:
 1. One work costing a minimum of Rs. 52.00 lakhs and above
OR
 2. Two works of each costing a minimum Rs. 39.00 lakhs and above
OR
 3. Three works of each costing a minimum Rs. 25.00 lakhs and above

NOTE: Similar works means Interior furnishing works

Document proof to be submitted:

(1) Copies of Work orders (2) Completion Certificates (self-attested) issued from the respective Organizations to be submitted related to the similar works executed during the relative period stated above (3) CA Certificate (4) Balance sheet schedule for last 3 consecutive financial years.

Conditions:

1. Bank has the discretion to increase/decrease the duration of days.
2. Any party or its associated company if had been in the holiday list / Black-listed by any Central / State Government agencies or any Central / State PSU company and such name appears in the list of the above mentioned central / state Government agencies or central / state PSU as on date is disqualified and would not be considered. A self-declared certificate to be submitted as per the pro-forma enclosed to the Technical bid that the vendor is not blacklisted by above-mentioned Agencies.
3. Tender fee and EMD details are as follows:

NAME OF THE WORK	Tender fee in the form of DD (Rs)	EMD in form of DD (Rs)	Estimated cost of the project in Rs.
PROPOSED ELECTRICAL WORK FOR HEAD OFFICE, REGIONAL OFFICE & BRANCH FOR SAPTAGIRI GRAMEENA BANK @ SUVERY No. 261/3, VELLORE ROAD, CHITTOOR-	Rs. 6,000/-	Rs.61,000/-	

Head Office : # 19/565-11, 3rd floor, Sai Yashus, Vellore Road, CHITTOOR - 517002.

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517002			
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Note: The tenders which are not enclosed with the specified amount of EMD in the form of DD will be summarily rejected. (Cheques will not be accepted)”



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INSTRUCTION TO BIDDERS:

1. The bidders should in their own interest visit the site & familiarize themselves with the site conditions before quoting.
2. No materials shall be provided by the Bank for the execution of the work.
3. Submission & processing of tenders.
 - i) The tender to be submitted in two parts, part I containing the Technical bid & part II containing the price bid.
 - ii) Complete tender documents including both part I & part II duly signed by the bidders should be submitted in separate sealed covers super scribed as "Technical bid" & "Price bid" by the due date. Rates shall be filled only in price bid part contained in the price bid envelope. Prices should be filled up in the price bid part II. Bidders shall fill up their rates only in the price bid and not in any other manner.
 - iii) Bidders are advised not to deviate from the stipulated technical specifications, commercial terms & conditions like terms of payment, warranty, arbitration, escalation clause etc. In case it is unavoidable, Bidders are advised to list out the deviations in a separate sheet and enclose the same in envelope no.1 containing the Technical bid.
 - iv) Part I i.e. Technical bid only will be opened on the due date & time in the presence of bidders /their authorized representatives.
 - v) Scrutiny /evaluation of the technical bids will be done by the Bank in consultation with the Architect/consultant or any other agency as deemed necessary. In case it is found that the technical bid is not in line with the stipulated specifications, requirements and/or contains many deviations, the Bank reserves the right to reject the technical bid of such firm without making any reference to the bidder. The Price bid of only those who qualified in the technical bid will be opened and **price bids of those who do not qualify in the technical bid will not be opened.**
 - vi) Necessary clarifications required by the Bank shall have to be furnished by the bidder within the stipulated time, failing which his bid may be rejected without making any further reference.



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vii) Part II i.e. the price bid of qualified bidders will be opened in the presence of bidders /their authorized representatives.

viii) Bank however reserves the right to accept/reject any tender or call for fresh tenders without assigning any reason whatsoever.

ix) The Bank reserves the right to reject any or all proposals. Similarly, it reserves the right NOT to include any Bidder in the final short-list, if found or otherwise proved to have furnished wrong details / documents, at any point of time.

x) The tender shall be submitted in two separate sealed envelopes i.e. Envelope No:1 'Technical Bid' and Envelope No:2 'Price Bid.' The sealed envelope containing Technical bid should be super scribed as "Technical Bid" and the sealed envelope containing price bid should be super scribed as "Price Bid" respectively. The two sealed envelopes, one containing Technical Bid and second containing Price bid should be placed in a single envelope No.3, duly sealed and super scribed on the outside with the narration "Tender for PROPOSED ELECTRICAL WORK FOR HEAD OFFICE, REGIONAL OFFICE & BRANCH FOR SAPTAGIRI GRAMEENA BANK @ SUVERY No. 261/3, VELLORE ROAD, CHITTOOR-517002" The tender should be submitted on or before 29.08.2022 up to 3.00 PM, in the "Tender Box" kept at Saptagiri Grameena Bank, Head Office, Sai Yashus, 3rd Floor, Vellore Road, Chittoor 517002.

Alternatively, the tenders may be submitted through Registered/Speed Post to reach the below mentioned address on or before the due date and time indicated above. The responsibility of submitting tenders to the below mentioned address on or before the due date and time is that of applicant and any tenders received after due date and time shall not be accepted. The Bank will not be responsible for any delay or late submission of the tender or any loss arising there from in any manner whatsoever.

Address for communication:

**The General Manager,
Saptagiri Grameena Bank,
Head Office, Sai Yashus,
3rd Floor, Vellore Road,
Chittoor 517002.**

4. Earnest Money Deposit: Bidders must deposit the specified amount of EMD as detailed in the notice-inviting tender at the time of submission of tender. The EMD of unsuccessful bidders will be refunded without any interest soon after the decision to award the work to successful bidder.



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5. Earnest Money of the successful bidders will be retained as part of security deposit and will be returned 14 days after the end of defect liability period. EMD will be forfeited, if the bidder fails to start the work within the period of 14 days from the date of award of work and fail to execute an agreement.
6. Initial Security Deposit: Successful bidder whose tender is accepted is required to submit Initial Security Deposit equal to 2% of the accepted value of the tender (inclusive of EMD) within 14 days of date of award of work by way of Demand Draft in favour of Saptagiri Grameena Bank payable at Chittoor.
7. Total Security deposit shall comprise of 5% of the final contract value (i.e. final bill amount) which includes:
 - i. Earnest Money Deposit
 - ii. Initial Security Deposit
 - ii. Retention money
8. Validity: The L1 price shall remain valid for period of 180 days from the date of finalizing L1. The bidders shall not be entitled during the period of validity without the consent in writing of the Bank to revoke or cancel tender or to vary the tender given or any terms thereof.
9. The successful bidder shall be required to execute an agreement in requisite stamp paper within 14 days from the date of award of work. In the event of failure to execute the agreement within the stipulated period, EMD amount will be forfeited.
10. Bank reserves the right to modify any of the pre-qualification criteria.
11. The evaluation of the tenders will be based on pre-qualification criteria detailed in the tender document, tenders of firm, which meet the pre-qualification criteria will only, be considered.
12. The successful bidder shall bear the expenditure towards stamps and related expenditure involved in registering of the contract.
13. The Bidder is expected to examine all Specifications, Instructions, and Terms & Conditions given in the Tender Documents. Failure to furnish all information required in the tender Documents or submission of a Bid not substantially responsive to the tender Documents in every respect will be at the Bidders risk and may result in rejection of the Bid.
14. Any clarification required will have to be obtained one week prior to the date of opening of the Technical Bid. For any technical clarifications, please feel free to contact our Architect M/s.Kanamadi & Associates (Phone: 080-23347210) and our Bank's officials Chief Manager on Ph.- 88866440003
15. All the pages of the tender document shall be signed & stamped by authorized representatives of the Bidder.

Place:

Date:

Signature of bidder with seal

Head Office : # 19/565-11, 3rd floor, Sai Yashus, Vellore Road, CHITTOOR - 517002.

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TENDER TERMS AND CONDITIONS

a	General Description:	PROPOSED ELECTRICAL WORK FOR ADMINISTRATIVE OFFICE BUILDING FOR SAPTAGIRI GRAMEENA BANK @ SUVERY No. 261/3, VELLORE ROAD, CHITTOOR-517002
b	Earnest Money Deposit	Rs. 61,000.00/- DD drawn in favour of Saptagiri Grameena Bank payable at Chittoor.
c	Initial security deposit	2% of the accepted value of the tender within 14 days of date of award of work, by way of Demand Draft favoring Saptagiri Grameena Bank payable at Chittoor
d	Date of commencement:	3rd. day from the date of award of work
e	Period of completion:	Along with civil work
f	Retention Money to be deducted from interim/running Bills	8% of gross value of each running bill shall be deducted
g	Total Security deposit from final bill	5% of final contract value shall be deducted and refunded after completion of defect liability period of 12 months provided the contractor has satisfactorily carried out all the works and attended to all defects in accordance with the conditions of the contract, including site clearance.
h	Defects Liability Period	12 (Twelve) months from the date of completion.
i	Liquidated Damages	1% of the contract value of the work per week subject to a ceiling of 15%
j	Interim bill	Value not less than 25% of the contract value in each bill.
k	Period of honoring the interim certificates:	Interim bill amount shall be honored within 15 days after receipt of the Architects certificate and checking by the concerned authority subject to the deduction of 8% of the bill.
l	Period of honoring the final bill:	15 days from the receipt of the Architects Certificate.
m	Statutory deductions	TDS, GST-TDS and others if any, will be deducted at the time of payment as per the prevailing terms
n	Mobilization Advance	Will not be considered
o	Validity of Tender	180 days from the date of finalizing L1



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P	Sub-contract	No sub-contract is allowed to successful bidder without written consent from the Bank.
Q	Discretion of Bank in awarding bid to L-1	The bank will not be bound to accept the lowest tender and reserves the right to accept or reject any or all the Percentage rate tenders without assigning any reason whatsoever.
R	Additions and Deletions/alterations	The cost or contract value of BOQs regarding the additions or deletions of any work of service or construction will be calculated specified in BOQs given by the architect or any BOQ which is not specified in the tender document the certificate of calculation given by bank's architect is final and in addition to as per terms and conditions given in point no.22.
S	Post tender clause.	Any clarifications sought after opening of the tenders will not be entertained at any cost.



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GENERAL CONDITIONS OF TENDER:

1. Definitions:

In construing these conditions and the specifications, Schedule of Quantities and Contract Agreement, the following words, shall have the meanings herein assigned to them except where the subject of context other requires:

- a. 'Owner' or 'Bank' shall mean Saptagiri Grameena Bank include his/their heirs, legal representatives, assignees and successors.
- b. 'Contractors' or 'Bidder' shall mean the person, or persons, firm or company *whose* tender has been accepted by the Bank and shall include his/their heirs and legal representatives and the permitted assigns.
- c. 'Consultant' (herein referred to as Consultants) shall mean the Electrical/Engineer/Architect Consultant appointed by Bank from its empanelled list to supervise the execution of the works.
- d. 'Banks Engineer' shall mean person employed by the Bank for the said work.
- e. 'Works' shall mean the works to be executed and recorded in accordance with the Contract and shall include all extra or additional altered or substituted works as required and recorded for the performance of the Contract
- f. 'Site' shall mean 'Saptagiri Grameena Bank, *where* the works are to be executed or carried out and other lands or places provided by the Bank for the purposes of the Contract.
- g. 'Project' shall mean entire work specified in the tender documents inclusive of extra items/ extra quantities (if any) executed during the contract period.
- h. 'Contract' shall mean the articles of agreement, the conditions of tender, specifications, schedule of quantities, drawings, duly signed by the owner and the contractor.
- i. 'Virtual Completion Certificate' shall mean the certificate issued by the Consultant/Owner to the Contractor after successful completion of the project.
- j. 'Contract Value' shall mean total value of quantities of items in the schedule of rates of the contract valued at the accepted rates at time of award of contract.

2. Price:

Price quoted should be firm without any escalation until the completion of the work. The rates quoted include the cost of transportation of material to the site and the fixing or placing in position for which the item of work is intended to be operated. The rates quoted by the Contractor shall be firm throughout the contract period and there shall be no upward revision of the rates quoted by the contractor for any reason whatsoever. No price variation will be allowed for any other reasons till the completion of the work.

3. Total Security Deposit

Total Security deposit comprise of a) Earnest Money Deposit b) Initial Security Deposit c) Retention Money

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a) Earnest Money Deposit:

The bidder shall furnish EMD mentioned in the form of Demand draft drawn in favor of Saptagiri Grameena Bank. No tender shall be considered unless the EMD is so deposited in the required form. No interest shall be paid on this EMD. The EMD of the unsuccessful bidder shall be refunded soon after the decision to award the contract is taken without interest. The EMD shall stand absolutely forfeited if the bidder revokes his tender at any time during the period when he is required to keep his tender open acceptance by the bank or after it is accepted by the bank the contractor fails to enter into a formal agreement or fails to submit the Performance Bank Guarantee as stipulated or fails to commence the work within the stipulated time.

(a) Initial Security Deposit:

Successful bidder whose tender is accepted is required to submit Initial Security Deposit equal to 2% of the accepted value of the tender (inclusive of EMD) within 14 days of date of award of work by way of Demand Draft in favour of Saptagiri Grameena Bank payable at Chittoor.

(b) Retention Money

Besides the EMD as deposited by the contractor in the above said manner, the retention money shall be deducted at the rate of 8% from the each running bill and will be released on the final payment. Defect liability period shall commence from the date of issue of Virtual Completion Certificate by the Architect/Consultant.

4. Language Errors, Omissions and Discrepancies

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 shall apply.

- i. Between scaled and written dimension (or description) on a drawing, the latter shall be adopted.
- ii. 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.
- iii. Between written description of the item in the specifications and descriptions in bills of quantities of the same item, the latter shall be adopted.
- iv. In case of difference between rates written in figures and words, the rate in words shall prevail.
- v. Between the duplicate/subsequent copies of the tender, the original tender shall be taken as correct.

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5. Scope of Work

Scope of works include Interior furnishing works.

The contractor shall carry out, complete and maintain the said work in every respect strictly in accordance with this contract and with the directions of and to the satisfaction of the Bank to be communicated through the architect/consultant. The architect/consultant at the directions of the Bank from time to time issue further drawings and/or written instructions, details directions and explanations which are hereafter collectively referred to as Architect's/Consultant's instructions in regard to the variation or modification of the design, quality or quantity of work or the addition or omission or substitution of any work, any discrepancy in the drawings or between the BOQ and/or drawings and/or specifications, the removal from the site of any material brought thereon by the contractor and the substitution of any other materials thereof, the demolition, removal and/or re-execution of any work executed by him, the dismissal from the work of any person employed/engaged thereupon.

6. Letter of Acceptance

Within the validity period of the tender the Bank shall issue a letter of acceptance either directly or through the architect by registered post or otherwise depositing at the address of the contractor as given in the tender to enter into a Contract for the execution of the work as per the terms of the tender. The letter of acceptance shall constitute a binding contract between the bank and the contractor.

7. Contract Agreement

On receipt of intimation of the acceptance of tender from the Bank/Architect the successful bidder shall be bound to implement the contract and within five days thereof he shall sign an agreement in a non-judicial stamp paper of appropriate value.

8. Ownership of drawings

All drawings, specifications and copies thereof furnished by the Bank through its architect/consultants are the properties of the Bank. They are not to be used on other work.

9. Detailed drawings and instructions

The Bank through its architects/consultants shall furnish with reasonable promptness additional instructions by means of drawings or otherwise necessary for the proper execution of the work. All such drawings and instructions shall be consistent with the contract documents, true developments thereof and reasonably inferable there from. The work shall be executed in conformity therewith and the contractor prepare a detailed work schedule indicating therein the date of start and completion of various activities on receipt of the work order and submit the same to the bank through the Architect/Consultant.



10. Liquidated Damages

Time is the essence of the contract. If the contractor fails to complete the work and clear the site on or before the dates fixed for completion, then the contractor shall without prejudice be liable to pay liquidation damage (LD) at 1% of the contract value for every **week that the whole or the part** of work remains incomplete. However, the total amount of LD to be paid under this condition shall not exceed 15% of the contract value.

11. Materials, Appliances and Employees

Unless or otherwise specified the contractor shall provide and pay for all materials, labour, water, power, tools, equipment transportation and any other facilities that are required for the satisfactory execution and completion of the work. Unless or otherwise specified all materials shall be new and both workmanship and materials shall be best quality. The contractor shall always enforce strict discipline and good order among his employees and shall not employ on the work any unfit person or anyone not skilled in the work assigned to him. Workman whose work or behavior is found to be unsatisfactory by the Bank/Architect/Consultant he shall be removed from the site immediately.

Water and Electricity:

Contractor will arrange water, electricity, and telephone connection at site at his own cost. In case, such services are already existing at site, the contractor should bear the monthly charges regularly for using such services.

12. Permits, Laws and Regulations

Permits and licenses required for the execution of the work shall be obtained by the contractor at his own expenses. The contractor shall give notices and comply with the regulations, laws, and ordinances rules, applicable to the contractor. If the contractor observes any discrepancy between the drawings and specifications, he shall promptly notify the bank in writing under intimation of the Architect/Consultant. If the contractor performs any act which is against the law, rules and regulations he shall meet all the costs arising there from and shall indemnify the bank any legal actions arising there from.

13. Setting out Work

The contractor shall set out the work 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 and get it approved by the architect/consultant before proceeding with the work. If at any time any error in this respect shall appear during the progress of the works, irrespective of the fact that



the layout had been approved by the architect/consultant the contractor shall be responsible for the same and shall at his own expenses rectify such error, if so, required to satisfaction of the bank.

14. Protection of works and property

The contractor shall continuously maintain adequate protection of all his work from damage and shall protect the bank's properties from injury or loss arising in connection with contract. He shall make good any such damage, injury, loss due to his fault or negligence except which are due to causes beyond his control.

He shall take adequate care and steps for protection of the adjacent properties. The contractor shall take all precautions for safety and protection of his employees on the works and shall comply with all applicable provisions of Government and local bodies' safety laws and building codes to prevent accidents, or injuries to persons or property of about or adjacent to his place of work. The contractor shall take insurance covers as per clause 26 at his own cost. The policy may be taken in joint names of the contractors and the bank and the original policy may be lodged with the bank.

15. Inspection of Work

The Bank/Architect/Consultant or their representatives shall at all reasonable time have free access to the work site and/or to the workshop, factories or other places where materials are lying or from where they are obtained and the contractor shall give every facility to the Bank, Architect/Consultant and their representatives necessary for inspection and examination and test of the materials and workmanship. No person unless authorized by the Bank/Architect/Consultant except the representative of Public authorities shall be allowed on the work at any time. The proposed work either during its construction stage or its completion can also be inspected by the Chief Technical Examiner's organization a wing of Central Vigilance Commission.

16. Assignment and subletting

The whole of work included in the contract shall be executed by the contractor and he shall not directly entrust and engage or indirectly transfer assign or *subcontract* the contract or any part or share thereof or interest therein without the written consent of the bank through the architect and no *undertaking* shall relieve the contractor from the responsibility of the contractor from active superintendence of the work during its progress.

17. Quality of Materials, (i) Workmanship & Test



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All materials and workmanship shall be best of the respective kinds described in the contract and in accordance with Architect/Consultant instructions and shall be subject from time to time to such tests as the architect/consultant may direct at the place of manufacture or fabrication or on the site or an approved testing laboratory. The contractor shall provide such assistance, instruments, machinery, labour and materials.

(ii) Samples

The contractor without any extra charges shall supply all samples of adequate numbers, size, shades & pattern as per specifications. 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/consultant. Before submitting the sample/literature the contractor shall satisfy himself that the material/equipment for which he is submitting the samples/literature meet with the requirement of tender specification. Only when the samples are approved in writing by the architect/consultant the contractor shall proceed with the procurement and installation of the material/equipment. The approved samples shall be signed by the Architect/Consultant for identification and shall be kept on record at site office until the completion of the work for inspection/comparison at any time. The Architect/Consultant shall take reasonable time to approve the sample. Any delay that might occur in approving the samples for reasons of its not meeting 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/equipment's etc. shall be to the account of the contractor.

(iii) Cost of tests

a) The cost of making any test shall be borne by the contractor if such test is intended by or provided for in the specifications or BOQ.

(iv) Cost of test not provided for

If any test is ordered by the Architect/Consultant, which is either:

a. If so intended by or provided for or (in the cases above mentioned) is not so particularized or through so intended or provided for but ordered by the Architect/Consultant which is either to be carried out by an independent person at any place other than the site or the place of manufacture or fabrication of the materials tested or any Government/approved laboratory, then the cost of such test shall be borne by the contractor.

18. Obtaining Information related to execution of work

No claim by the contractor for additional payment shall be entertained which is consequent upon failure on his part to obtain correct information as to any matter affecting the execution of the work nor any misunderstanding or the obtaining incorrect information or the failure to obtain correct information relieve him

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from any risks or from the entire responsibility for the fulfillment of contract.

19. Contractor's superintendence

The contractor shall give necessary personal superintendence during the execution of the works and as long, thereafter, as the Architect/consultant may consider necessary until the expiry of the defects & liability period, stated hereto.

20. Quantities

i) The bill of quantities (BOQ) unless or otherwise stated shall be deemed to have been prepared in accordance with the Indian Standard Method of Measurements. The rate quoted shall remain valid for variation of quantity against individual item to any extent subject to maximum variation of the contract value by 25%. The entire amount paid under Clause 21 hereof as well as amounts of prime cost and provisional sums, if any, shall be excluded.

ii) Variation exceeding 25%: The items of work executed in relation to variation exceeding 25% shall be paid based on provisions of clause 22(e) hereof.

21. Works to be measured

The Architect/Consultant may from time to time intimate to the contractor that he required the work to be measured and the contractor shall forthwith attend or send a qualified representative to assist the Architect in taking such measurements and calculation and to furnish all particulars or to give all assistance required by any of them. Such measurements shall be taken in accordance with the Mode of measurements detailed in the specifications. The representative of the Architect/Consultant shall take joint measurements with the contractor's representative and the measurements shall be entered in the measurement book.

The contractor or his authorized representative shall sign all the pages of the measurement book in which the measurements have been recorded in token of his acceptance. Both representatives shall duly attest all the corrections. No over writings shall be made in the M book. In case if the contractor does not attend or neglect or omit to depute his representative to take measurements then the measurements recorded by the representative of the Architect/consultant shall be final. All authorized extra work, omissions and all variations made shall be included in such measurements.

22. Variations:

No alteration, omission or variation ordered in writing by the Architect/Consultant shall vitiate the contract. In case the Bank/Architect/Consultant thinks proper at any time during the progress of works to make any alteration in, or additions to or omission from the works or any alteration in the kind or quality of the materials to be used therein, the Architect/Consultant shall give notice thereof in writing to the contractor or shall confirm in writing within seven days of giving such oral instructions the contractor shall alter to, 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 alteration or additions to or omissions from the works or



any deviation from any of the provisions of the contract, stipulations, specifications or contract drawings without previous consent in writing of the Architect/Consultant and the value of such extras, alterations, additions or omissions shall in all cases be determined by the Architect/Consultant and the same shall be added to or deducted from the contract value, as the case may be.

23. Valuation of Variations

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

- a) i) 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. ii) Rates for all items, wherever possible should be derived out of the rates given in the priced BOQ.
- b) 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) hereunder.
- c) 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 receipt of the letter of acceptance inform the Architect/Consultant of the rate which he intends to charge for such items of work, duly supported by analysis of the rate or rates claimed and the Architect/Consultant shall fix such rate or prices as in the circumstances in his opinion are reasonable and proper, based on the market rate.
- d) 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 BOQ 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 Architect/Consultant) the workman's name and materials employed be delivered for verifications to the Architect/Consultant at or before the end of the week following that in which the work has been executed.
- e) It is further clarified that for all such authorized extra items where rates cannot be derived from the tender, the contractor shall submit rates duly supported by rate analysis worked on the "market rate basis" 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.

24. Final Measurement

The measurement and valuation in respect of the contract shall be completed within one month of the virtual completion of the work.



25. Virtual Completion Certificate (VCC)

On successful completion of entire works covered by the contract to the full satisfaction of the Bank, the contractor shall ensure that the following works have been completed to the satisfaction of the bank.

- Clear the site of all scaffolding, wiring, pipes, surplus materials, contractor's labor, equipment and machinery.
- Demolish, dismantle and remove the contractor's site office, temporary works, structures including labour sheds/camps and constructions and other items and things whatsoever brought upon or erected at the site or any land allotted to the contractor by the bank and not incorporated in the permanent works.
- Remove all rubbish, debris etc from the site and the land allotted to the contractor by the bank and shall clear, level and dress, compact the site as required by the bank.
- Shall put the bank in undisputed custody and possession of the site and all land allotted by the bank.
- Shall hand over the work in a peaceful manner to the bank.
- All defects/imperfections have been attended and rectified as pointed out by the bank to the full satisfaction of bank.

Upon the satisfactory fulfillment by the contractor as stated above, the contractor shall be entitled to apply to the Architect/Consultant for the certificate. If the Architect/Consultant is satisfied of the completion of the work, relative to which the completion certificate has been sought, the Architect/Consultant shall within fifteen (15) days of the receipt of the application for virtual completion certificate, issue a VCC in respect of the work for which the VCC has been applied. This issuance of a VCC shall be without prejudice to the bank's rights and contractor's liabilities under the contract including the contractor's liability for defects liability period nor shall the issuance of VCC in respect of the works or work at any site be construed as a waiver of any right or claim of the Bank against the contractor in respect of works or work at the site and in respect of which the VCC has been issued.

26. Work by other agencies

The Bank/Architect/Consultant reserves the rights to use premises and any portion of the site for execution of any work not included in the scope of this contract which it may desire to have carried out by other persons simultaneously and the contractor shall not only allow but also extend reasonable facilities for the execution of such work. The contractor however shall not be required to provide any plant or material for the execution of such work except by special arrangement with the bank. Such work shall be carried out in such manners not to impede the progress of the works included in the contract.

27. Insurance of Works

27.1. Without limiting his obligations and responsibilities under the contract the contractor shall insure in the joint names of the bank and the contractor against all loss or damages from whatever cause arising other than the excepted risks, for which he is responsible under the terms of contract and in



such a manner that the bank and contractor are covered for the period stipulated in clause 29 of GCC and are also covered during the period of maintenance for loss or damage arising from a cause, occurring prior to the commencement of the period of maintenance and for any loss or damage occasioned by the contractor in the course of any operations carried out by him for the purpose of complying with his obligations under clause.

- a) The works for the time being executed to the estimated current Contract value thereof, or such additional sum as may be specified together with the materials for incorporation in the works at their replacement value.
- b) The constructional plant and other things brought on to the site by the contractor to the replacement value of such constructional plant and other things.
- c) Such insurance shall be affected with an insurer and in terms approved by the bank which approval shall not be unreasonably withheld, and the contractor shall whenever required produce to the Architect/Consultant the policy of insurance and the receipts for payment of the current premiums.

27.2. Damage to persons and property

The contractor shall, except if and so far as the contract provides otherwise indemnify the bank against all losses and claims in respect of injuries or damages to any person or material or physical damage to any property whatsoever which may arise out of or in consequence of the execution and maintenance of the works and against all claims proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto except any compensation of damages for or with respect to:

- a) The permanent use or occupation of land by or any part thereof.
- b) The right of Bank to execute the works or any part thereof, on, over, under, in or through any lands.
- c) Injuries or damages to persons or properties which are unavoidable result of the execution or maintenance of the works in accordance with the contract.
- d) Injuries or damage to persons or property resulting from any act or neglect of the Bank, their agents, employees or other contractors not being employed by the contractor or in respect of any claims, proceedings, damages, costs, charges and expenses in respect thereof or in relation thereto or where the injury or damage was contributed to by the contractor, his servants or agents such part of the compensation as may be just and equitable having regard to the extent of the responsibility of the Bank, their employees, or agents or other employees, or agents or other contractors for the damage or injury.

27.3. Contractor to indemnify Bank

The contractor shall indemnify the bank against all claims, proceedings, damages, costs, charges and expenses in respect of the matters referred to in the provision sub clause 26.2 of this clause.

27.4. Contractor's superintendence

The contractor shall fully indemnify and keep indemnified the bank against any



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action, claim, or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claim made under or action brought against bank in respect of such matters as aforesaid the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expenses to settle any dispute or to conduct any litigation that may arise there from, provided that the contractor shall not be liable to indemnify the bank if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Architect/Consultant in this behalf.

27.5.Third Party Insurance

a) Before commencing the execution of the work the contractor but without limiting his obligations and responsibilities under clause 25 of GCC shall insure against his liability for any material or physical damage, loss, or injury which may occur to any property including that of bank, or to any person, including any employee

of the bank, by or arising out of the execution of the works or in the carrying out of the contract, otherwise than due to the matters referred to in the provision to clause 27 thereof.

b)Minimum Amount of Third-Party Insurance

Such insurance shall be affected with an insurer and in terms approved by the bank which approval shall not be reasonably withheld and for at least the amount stated below. The contractor shall, whenever required, produce to the Architect/Consultant the policy or policies of insurance cover and receipts for payment of the current premiums.

c)The minimum insurance cover for physical property, injury, and death is Rs.5.0 lakh per occurrence with the number of occurrences limited to four. After each occurrence contractor will pay additional premium necessary to make insurance valid for four occurrences always.

27.7. Accident or Injury to Workmen

a) The Bank shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any workmen or other person in the employment of the contractor or any subcontractor, save and except an accident or injury resulting from any act or default of the bank or their agents, or employees. The contractor shall indemnify and keep indemnified bank against all such damages and compensation, save and except as aforesaid and against all claims, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto.

b)Insurance against accidents etc..., to workmen

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The contractor shall insure against such liability with an insurer approved by the bank during the whole of the time any person employed by him on the works and shall, when required, produce to the architect/consultant such policy of insurance and receipt for payment of the current premium. Provided always that, in respect of any persons employed by any subcontractor the contractor's obligation to insure as aforesaid under this sub clause shall be satisfied if the sub-contractor shall have insured against the liability in respect of such persons in such manner that bank is indemnified under the policy but the contractor shall require such subcontractor to produce to the Architect/Consultant when required such policy of insurance and the receipt for the payment of the current premium.

c) Remedy on Contractor's failure to insure

If the contractor fails to effect and keep in force the insurance referred to above or any other insurance which he may be required to effect under the terms of contract, then and in any such case the bank may effect and keep in force any such insurance and pay such premium or premiums as may be necessary for that purpose and from time to time deduct the amount so paid by the bank as aforesaid and also deduct 15% of contract value from any amount due or which may become due to the contractor, or recover the same as debt from the contractor.

d) Without prejudice to the other rights of the Bank against contractors, in respect of such default, the Bank shall be entitled to deduct from any sums payable to the contractor the amount of any damages costs, charges, and other expenses paid by the bank and which are payable by the contractors 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.

28. Commencement of Works

The work should be started from 3rd day of issue of work order. In case, contractor fails to undertake the work at site within 7 days from the date of issue of work order, the Bank reserve the rights to entrust the work to any other contractor at its discretion and earnest money deposit of defaulter contractor will be forfeited.

29. Time for completion

Time is the essence of the contract and shall be strictly observed by the contractor. The entire work shall be completed within a period of 45 days from the date of award of work. If required in the contract or as directed by the Architect/Consultant, the contractor shall complete certain portions of work before completion of the entire work. However, the completion date shall be reckoned as the date by which the whole work is completed as per the terms of the contract.

30. Extension of Time



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If, in the opinion of the Architect/Consultant, the work be delayed for reasons beyond the control of the

contractor, the Architect/Consultant may submit a recommendation to the bank to grant a fair and reasonable extension of time for completion of work as per the terms of contract. If the contractor needs an extension of time for the completion of work or if the completion of work is likely to be delayed for any reasons beyond the due date of completion as stipulated in the contract, the contractor shall apply to the bank through the Architect/Consultant in writing at least 10 days before the expiry of the scheduled time and while applying for extension of time he shall furnish the reasons in detail and his justification if any, for the delays. The architect/consultant shall submit their recommendations to the bank in the prescribed format for granting extension of time. While granting extension of time the contractor shall be informed the period extended time which will qualify for levy of liquidated damages. For the balance period in excess of original stipulated period and duly sanctioned extension of time by the bank the provision of liquidated damages as stated under clause 9 of GCC shall become applicable. Further contract shall remain in force even for the period beyond the due date of completion irrespective whether the extension is granted or not.

31. Rate of progress

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 Architect/Consultant. Should the rate of progress of the work or any part thereof be at any time be in the opinion of the Architect/ Consultant too slow to ensure the completion of the whole of the work by the prescribed time or extended time for completion the Architect/Consultant shall thereupon take such steps as considered necessary by the Architect/Consultant to expedite progress so as to complete the works by the prescribed time or extended time. Such communications from the Architect/Consultant neither shall relieve the contractor from fulfilling obligations under the contract nor he shall be entitled to raise any claims arising out of such directions.

32. Work during nights and holidays

Subject to any provision to the contrary contained in the contract no permanent work shall save as herein provided be carried on during the night or on holidays without the permission in writing of the Architect/Consultant, save when the work is unavoidable or absolutely necessary for the saving of life or property or for the safety of the work in which case the contractor shall immediately advise the Architect/Consultant. However the provision of the clause shall not be applicable in the case of any work which becomes essential to carry by rotary or double shifts in order to achieve the progress and quality of the part of the works being technically required and continued with the prior approval of the Architect/consultant at no extra cost to the bank. All work at night after obtaining approval from competent authorities shall be carried out without unreasonable

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noise and disturbance.

33. Compensation for delay/ Liquidity Damages:

Time is the essence of the contract. If the contractor fails to complete the work and clear the site on or before the dates fixed for completion, then the contractor shall without prejudice be liable to pay liquidation damage (LD) at 1 % of the final value of the contract for every week that the whole or the part of work remains incomplete. However, the total amount of LD to be paid under this condition shall not exceed 15% of the final value of the contract.

34. No compensation for restrictions of work

If at any time after acceptance of the tender bank shall decide to abandon or reduce the scope of work for any reason whatsoever and hence not require the whole or any part of the work to be carried out, the Architect/Consultant shall give notice in writing to that effect to the contractor and the contractor shall act accordingly in the matter.

The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the work fully but which he did not derive in consequence of the foreclosure of the whole or part of the work.

Provided that the contractor shall be paid the charges on the cartage only of materials actually and bona fide brought to the site of the work by the contractor and rendered surplus as a result of the abandonment, curtailment of the work or any portion thereof and then taken back by the contractor, provided however that the Architect/Consultant shall have in such cases the option of taking over all or any such materials at their purchase price or a local current rate whichever is less. In case of such stores having been issued from bank stores and returned by the contractor to stores, credit shall be given to him at the rates not exceeding those at which were originally issued to the contractor after taking into consideration and deduction for claims on account of any deterioration or damage while in the custody of the contractor and in this respect the decision of Architect/Consultant shall be final.

35. Suspension of work

i) The contractor shall, on receipt of the order in writing of the Architect/Consultant (whose decision shall be final and binding on the contractor) suspend the progress of works or any part thereof for such time and in such manner as Architect/Consultant may consider necessary so as not cause any damage or injury to the work already done or endanger the safety thereof for any of following reasons.

a) On account any default on the part of the contractor, or

b) For proper execution of the works or part thereof for reasons other than the default



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of the contractor, or

c) For safety of the works or part thereof.

The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Architect/Consultant.

ii) If the suspension is ordered for reasons (b) and (c) in sub Para (i) above:

The contractor shall be entitled to an extension of time equal to the period of every such suspension. No compensation whatsoever shall be paid on this account.

36. Action when the whole security deposit is forfeited

In any case in which under any clause or clauses of this contract, the Contractor shall have rendered himself liable to pay compensation amounting to the whole of his security deposit the Architect/Consultant shall have the power to adopt any of the following course as they may deem best suited to the interest of the bank.

a) To rescind the contract of which rescission notice in writing to the contractor by the Architect/Consultant shall be conclusive evidence) and in which case the security deposit of the contractor shall be forfeited and be absolutely at the disposal of bank.

b) To employ labour paid by the bank and to supply materials to carry out the work, or any part of the work, debiting the contractor with the cost of the labour and materials (the cost of such labour and materials as worked out by the Architect/Consultant shall be final and conclusive against the contractor) and crediting him with the value of the work done, in all respects in the same manner and at the same manner and at the same rates as if it had been carried out by the contractor under the terms of this contract the certificate of Architect/Consultant as to the value of work done shall be final and conclusive against the contractor.

c) To measure up the work of the contractor, and to take such part thereof as shall be unexecuted, out of his hands, and to give it to another contractor to complete in which case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor, if the whole work had been executed by him (of the amount of which excess the certificates in writing of the Architects/Consultant shall be final and conclusive) shall be borne by original contractor and may be deducted from any money due to him by bank under the contract or otherwise, or from his security deposit or the proceeds of sale thereof, or sufficient part thereof.

In the event of any of above courses being adopted by the bank the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any material or entered into any engagements or make any advances on account of, or with a view to the execution of the work or the

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performance of the contract and in case the contract shall be rescinded under the provision aforesaid, the contractor shall not be entitled to recover or to be paid any sum or any work thereto for actually performed under this contract, unless, and until the Architect/Consultant will have certified in writing the performance of such work and the value payable in respect thereof, and he shall only be entitled to be paid the value so certified.

37. Owner's Right to Terminate the Contract

If the contractor being an individual or a firm commit any 'Act of Insolvency' or shall be adjudged an insolvent or being an incorporated company shall have an order for compulsory winding up voluntarily or subject to the supervision of Government and of the Official Assignee of the liquidator in such acts of insolvency or winding up shall be unless within seven days after notice to him to do so, to show to the reasonable satisfaction of the Architect/Consultant that he is able to carry out and fulfill the contract, and to give security therefore if so required by the Architect/Consultant.

Or if the contractor (whether an individual firm or incorporated Company) shall suffer execution to be issued 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 bank through the Architect/Consultant or shall charge or encumber this contract or any payment due to which may become due to the contractor there under.

- a) Has abandoned the contract; or
- b) Has failed to commence the works, or has without any lawful excuse under these conditions suspended the progress of the works for 14 days after receiving from the bank through the Architect/Consultant written notice to proceed, or
- c) Has failed to proceed with the works with such diligence and failed to make such due progress as

would enable the works to be completed within the time agreed upon, or has failed to remove the materials from the site or to pull down and replace work within seven days after written notice from the bank through the Architect/Consultant that the said materials were condemned and rejected by the Architect/Consultant under these conditions; or has neglected or failed persistently to observe and perform all or any of the acts, matters or things by this contract to be observed and performed by the contractor for seven days after written notice shall have been given to the contractor to observe or perform the same or has to the detriment of good workmanship or in defiance of the bank's or Architect's/Consultant's instructions to the contrary subject any part of the contract. Then and in any of said cases the bank and or the Architect/Consultant, may not withstanding any previous waiver,

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after giving seven days' notice in writing to the contractor, determine the contract, but without thereby affecting the powers of the Bank or the Architect/Consultant or the obligation 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 had been executed by or on behalf of the contractor. And, further the bank through the Architect/Consultant, their agents or employees may enter upon and take possession of the work and all plants, tools, scaffoldings, materials, sheds, machineries lying upon the premises or on the adjoining lands or roads, use the same by means of their own employees or workmen in carrying on and completing the work or by engaging any other contractors or persons to complete the work and the contractor shall not in any way interrupt or do any act, matter or thing to prevent or hinder such other contractor or other 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 Bank or the Architect/Consultant shall give a notice in writing to the contractor to remove his surplus materials and plants and should the contractor fail to do so within 14 days after receipt thereof by him the bank sell the same by public auction after due publication and shall adjust the amount realized by such auction. The contractor shall have no right to question any of the act of the bank incidental to the sale of the materials etc.

38. Certificate of Payment

The contractor shall be entitled for payment as per the certificates issued by the Architect/ Consultant. The certificate of the Architect will be scrutinized by concerned engineer of bank who will pass the bill for payment. Payment will be made to the contractor within 10 working days from the date of passing of the Bill by the concerned engineer of bank. The Bank shall deduct the statutory recoveries and other dues including the retention amount from bill passed for payment. Provided always that the issue of any certificate by the Architect/Consultant during the progress of works or completion shall not have effect as certificate of satisfaction or to relieve the contractor from his liability under this clause. The Architect/Consultant shall have power to withhold the certificate if the work or any part thereof is not carried out to their satisfaction. The Architect/Consultant may by any subsequent certificate make any corrections required in previous certificate. The Bank shall reserve its liberty to modify the certificate of payment as issued by the Architect/Consultant from time to time while making the payment as deemed fit and necessary. The contractor shall submit interim bills only after taking actual measurements and properly recorded in the Measurement book (M.B). The contractor shall not submit interim bills less than 25% of contract value (i.e. the actual value of work done by him equal to the 25% billed amount) and the minimum interval between two such bills shall be 10 days. The final bill may be submitted by contractor within a period of one month from the date of virtual completion and Architect/Consultant shall issue the certificate of payment within a period of 15 days. The bank shall pay the amount of final bill within a period of 15 days from the date



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of issue of certificate provided there is no dispute in respect of rates and quantities. The contractor shall submit the interim bills in the prescribed format with all details.

39. Payment to Contractors:

Payment will be released only after completion of the work to the satisfaction of the Bank. However, interim bills after certification of architect will be considered subject to ceiling as mentioned clause 37 of the tender. This is an item rate tender. The quantities given in the schedule of items are approximate & payment shall be made only for the quantities executed as per the actual measurement. The contractor is not entitled for any sort of compensation towards the materials procured & stored in excess of the measured quantity, if any.

40. Settlement of Disputes and Arbitration

Except where otherwise provided in the contract all questions and disputes relating to the meaning of the specifications, design, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the work or the execution or failure to execute the same, whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter:

i) If the contractor considers that he is entitled to any extra payment or compensation in respect of the works over and above contracted works undertaken at the request of bank and duly certified by the Architect which have been disallowed by bank. The contractor shall forthwith give notice in writing of his claim, or dispute to the bank and endorse a copy of the same to the Architect, within 30 days from the date of disallowance thereof or the date of deduction or recovery. The said notice shall give full particulars of the claim, grounds on which it is based and detailed calculations of the amount disputed. Thereafter the dispute shall be taken up in arbitration. It is also a term of this contract that no person other than a person appointed by such General Manager aforesaid should act as arbitrator who shall be a PWD engineer of the Government of Karnataka with rank not less than the rank of an Executive Engineer. The arbitration shall be conducted in accordance with the provisions of the Arbitration & Conciliation Act 1996 or any statutory modification or reenactment thereof and the rules made there under. The fee claimed by the arbitrator shall be shared equally by the parties. The decision of the Arbitrator is final and binding on the parties. The Courts at Chittoor alone shall have jurisdiction in respect of settlement of all disputes arising out or in connection with the contract.

41. Method of Measurement

Unless otherwise mentioned in the schedule of quantities or in mode of measurement, the measurement will be on the net quantities or work produced in accordance with up to date. Rules laid down by the Bureau of Indian Standards. In

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the event any dispute/disagreement the decision of the Architect/Consultant shall be final and binding on the contractor.

42. Maintenance of Registers

The contractor shall maintain the following registers at site of work and should produce the same for inspection of Bank/Architect/Consultant whenever desired by them. The contractor shall also maintain the records/registers as required by the local authorities/Government from time to time.

- i. Register for secured advance
- ii. Register for hindrance to work
- iii. Register for running a/c bill
- iv. Register for labour.

43. Force Majeure

43.1. Neither contractor nor Bank shall be considered in default in performance of their obligations if such performance is prevented or delayed by events such as war, hostilities revolution, riots, civil commotion, strikes, lockout, conflagrations, epidemic, accidents, fire, storms, floods, droughts, earthquakes or ordinances or any act of god or for any other cause beyond the reasonable control of the party affected or prevented or delayed. However a notice is required to be given within 30 days from the happening of the event with complete details, to the other party to the contract, if it is not possible to serve a notice, within the shortest possible period without delay.

43.2. As soon as the cause of force majeure has been removed the party whose ability to perform its obligations has been affected, shall notify the other of such cessation and the actual delay incurred in such affected activity adducing necessary evidence in support thereof.

43.3. From the date of occurrence of a case of force majeure obligations of the party affected shall be suspended during the continuance of any inability so caused. With the cause itself and inability resulting there from having been removed, the agreed time of completion of the respective obligations under this agreement shall stand extended by a period equal to the period of delay occasioned by such events.

43.4. Should one or both parties be prevented from fulfilling the contractual obligations by a state of force majeure lasting to a period of 6 months or more the two parties shall mutually decide regarding the future execution of this agreement.

44. Local Laws, Acts, Regulations

The contractor shall strictly adhere to all prevailing labour laws inclusive of contract labour (regulation and abolition act of 1970) and other safety regulations. The contractor shall comply with the provision of all labour legislation including the latest requirements of all the Acts, laws, any other regulations that are applicable to the execution of the project. He shall provide access and inspection of the registers to the concerned inspecting authority of the state and central government. Any compliance required to be carried out shall be forthwith complied with by the contractor and informed to the Bank. i) Minimum Wages Act, 1948 (Amended)



ii) Payment of Wages Act 1936 (Amended) iii) Workmen's Compensation Act 1923 (Amended) iv) Contract Labour Regulation and Abolition Act 1970 and Central Rules 1971 (Amended) v) Apprentice Act 1961 (Amended) vi) Industrial Employment (Standing Order) Act 1946 (Amended) vii) Personal Injuries (Compensation Insurance) Act 1963 and any other modifications viii) Employees' Provident Fund and Miscellaneous Provisions Act 1952 and amendment thereof

45. SAFETY CODE: SAFETY MEASURES AT SITE:

All personnel at site should be provided with Helmets and Safety Boots with some Identification Mark. Visitors also should be provided with Helmets. It should be ensured that these are used properly. First Aid Box should be kept at site with all requisite materials. No one should be allowed to inspect / work at a height without Safety Belt / Helmet.

46. WARRANTY:

The materials supplied should have unconditional comprehensive warranty of 12 months from the date of issue of Virtual completion certificate. During the warranty period of 12 months, the contractor has to provide service support for the above items & attending to all repairs & replacement of defective parts if any shall be borne by the contractor without any extra cost to the bank.

47. On successful completion of entire works covered by the contract to the full satisfaction of the Bank, the contractor shall ensure that the following works have been completed to the satisfaction of the bank:

- a) Clear the site of all scaffolding, wiring, pipes, surplus materials, contractor's labor, equipment and machinery.
- b) Demolish, dismantle and remove the contractor's site office, temporary works, structures including labor sheds/camps and constructions and other items and things whatsoever brought upon or 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 the contractor by the Owner and shall clear, level and dress, compact the site as required by the Bank.
- d) Shall put the Bank in undisputed custody and possession of the site and all land allotted by the Owner.
- e) Shall hand over the work in a peaceful manner to the Owner.
- f) All defects / imperfections have been attended and rectified as pointed out by the Owner to the full satisfaction of Owner. +The quantities indicated are approximate. On award of work and approval of the scheme, the contractor has to work out the actual quantities of each item of work and intimate to the Owner. No increase in cost shall be given for any additional quantities of any item given in the tender.

48. Special Instructions:

- i. All materials to be used in execution of project shall be of first class quality, recommended make, I.S.I. marked and shall be approved by Owner before its



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application.

- ii. The contractor shall be paying all testing charges required for testing of materials and samples as and when taken by Owner/ The Contractor shall arrange necessary labour and transportation to facilitate testing of samples/materials. Frequency of testing materials/samples shall be as per related I.S. codes.
- iii. The work should be carried out in truly professional manner, neatly finished with proper line, level and plumb. Cleanliness and finishing of the job is of utmost importance. Hence the job should be done most carefully with best workmanship. For all finishing jobs samples should be approved from the owner before completely executing the work.
- iv. The Owner/ should be immediately informed for any discrepancy in drawings, specifications and instructions in the execution of job at site before actual execution of particular item having discrepancy.
- v. Any item found to be having been executed with poor workmanship or materials of inferior quality then the contractor shall have to rectify /reconstruct the work as specified by Owner/ No extra charge will be admissible in such case. If Contractors fails to do so, the Owner reserved the right to rectify/reconstruct the work through some other agency at the expenses of contractor.
- vi. The schedule of activities as submitted by the contractor shall have to be strictly adhered to. Regular progress reports shall have to be submitted by the contractor giving all details for monitoring of the schedule.
- vii. The Contractor shall take charge of site and if site clearance is involved, he shall attend to it. (If such type of unforeseen and unavoidable situation occurs, in that case actual labour employed for such job shall be paid including overheads and profit).
- viii. Special care is to be taken for cleanliness of the site. After the end of day's work, the site should be cleaned immediately.
- ix. The contractor shall have to co-operate with the agencies executing other works in the same area.
- x. While executing the work, the contractor shall ensure safety and security of the property of the Owner so as to avoid theft etc.

Place:

Signature of bidder with seal



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Mandatory information – Technical bid

(To be furnished on the letterhead of the applicant)

Important:

1. Please type or write in capital letters.
2. The contractors, vendors and who intend to apply for more than one trade have to apply for each trade separately

3. Attach copies of the supporting documents.

4. Attach extra sheets with Sr. No if the space found insufficient.
5. Applications of those agencies who do not furnish above information will be summarily rejected.

1.1	Name of the applicant / organization	
1.2	Address of the Registered Office	
1.3	Address of office at HeadOffice. (With Phone Nos, Fax Nos & Email ID & Contact Person) and address of office Chittoor	
1.3.1	Contact no.	
1.3.2	Fax no.	
1.3.3	Email id	
1.3.4	Contact Person	
2	Year of establishment	
3	Type of the organization (Whether sole proprietorship, Partnership, Private Ltd. or Ltd. Co. etc.) (Enclose certified copies of documents as evidence)	



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4	Name & qualification of the Proprietor / Partners / Directors of the Organization / Firm a) b) Enclose certified copies of document as evidence	
5	Details of registration – Whether Partnership firm, Company, etc. Name of Registering Authority, Date and Registration number. Enclose certified copies of document as evidence	
6	Whether registered with Government / Semi – Government / Municipal Authorities of any other Public Organization and if so, in which class and since when? (Enclose certified copies of document as evidence)	
7	a. No. of years of experience in the field and details of work in any other field. b. Whether ISO certified, furnish the Details.	
8	Area of business activities other than construction, if any, and place of business.	
9	Registration of firm under Shop & Establishment Act 1948	



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10	Address of Head office through which the proposed work of the Bank will be handled	
10.1	Name & Designation of officer in charge.	
11	Yearly turnover of the organization during last 3 years (year wise) (Avg. turnover of last 3 years as per the respective category supported by the audited balance sheet and Profit & Loss A/c (Audited) for the last -3- years.	
11.1	Average turnover in FY	
11.2.1	2018-19	
11.2.2	2019-20	
11.2.3	2020-21	
12	Name & Address of Bankers	
13	Enclose copy of latest income tax clearance certificate.	
14	PAN No.	
15	Details of registration	
16	Service Tax/GST Registration No.	

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17	Excise No.	
18	Detailed description and value of works done (Proforma-1) and works on hand (Proforma-2)	
19	Empanelment with other Companies/PSUs	
20	Other infrastructural information to be used/ referred for this project (Proforma-4) List of available plants, machineries equipment's etc.	
21	Furnish the names of –3- responsible persons along with their designation, address, Tel.No. etc., for whose organization, you have completed the above-mentioned jobs and who will be able to certify about the performance of your organization.	
21.1	Name	
	Address	
	Contact no.	
	Email id	
	Organization	



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21.2	Name	
	Address	
	Contact no.	
	Email id	
	Organization	
21.3	Name	
	Address	
	Contact no.	
	Email id	
	Organization	
22	Whether any Civil Suit / litigation arisen in contracts executed / being executed during the last 10years. If yes, please furnish the name of the project, employer, Nature of work, Contract value, work order and brief details of litigation. Give name of court, place, and status of pending litigation.	Attach a separate sheet if required.



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23	Information relating to whether any litigation is pending before any Arbitrator for adjudication of any litigation or else any litigation was disposed off during the last ten years by an arbitrator. If so, the details of such litigation are required to be submitted.	
24	Have you been ever disqualified or levied penalty by the bank in past for non fulfilment of the contractual obligations. If yes, please provide details.	
25	Have you in past carried out any works for Saptagiri Grameena Bank or its subsidiaries? If yes, give details.	
26	GST Number	



PROFORMA – 1

**LIST OF PROJECTS EXECUTED BY THE ORGANISATION DURING THE LAST 7 YEARS
(Minimum Value of Work done not less than 40 % of the respective category)**

No	Name of work/ project with address.	Name &full postal address of the owner. Specify	Contract Amount ([₹])	Stipulated time of completion (Years)	Actual time of completion (years)	Any other relevant information. Actual amount of the Project,if increased, give reasons.	Enclose client's certificate for satisfactory completion.
1	2	3	4	5	6	7	8

1. Information has to be filled up specifically in this format. **“Please do not write remark “Asindicated in Brochure”.**



PROFORMA – 2

LIST OF IMPORTANT WORKS ON HAND

(Minimum Value of Work done not less than 40 % of the respective category)

Sl. No.	Name of work/ project with address.	Name & full postal address of the owner. Specify whether Govt. undertaking along with name, address and contact nos.of –2- persons (Engineers or top officials of the organization)	Contract Amount (₹) with copy of Work Order & completion certificate from project in-charge.	Stipulated time of completion (Years)	Present status of the project	Any other relevant information.
1	2	3	4	5	6	7

Note:-Information has to be filled up specifically in this format.



PROFORMA – 3

DETAILS OF KEY PERSONNEL, GIVING DETAILS ABOUT THEIR TECHNICAL QUALIFICATION & EXPERIENCE INCLUDING THEIR IN-HOUSE ESTABLISHMENT.

Sr . No	Name and designation	Age	Qualification	Experience	Nature of works handled	Name of the projects handled along with amounts	Date from which employed in your organization	Indicate details of experience for similar projects.
1	2	3	4	5	6	7	8	9

1. **Information has to be filled up specifically in this format.**

2. **Indicate other points, if any, to show your technical competence to indicate any important point in your favour.**



PROFORMA – 4

Details of Infrastructure in Office

Sr.No.	Items	Numbers	Details
1	Office Premises, Area,etc.		
2	Fax M/c		
3	Email id		
4	Telephones		
5	Other instruments		
6	Details of WorkshopSetup		
	(i)		
	(ii)		
	(iii)		

I/We confirm that to the best of our knowledge this information mentioned by me/us in Annexure A (Proforma 1,2,3 &4) is authentic and accept that any deliberate concealment will amount to disqualification by the Bank at any stage.



DECLARATION ACCEPTING TERMS AND CONDITIONS OF THE TENDER

Date _____

To:

**The General Manager,
Saptagiri Grameena Bank,
Head Office, Sai Yashus,
3rd Floor, Vellore Road,
Chittoor 517002**

Dear Sirs,

Ref. TENDER FOR PROPOSED ELECTRICAL WORK FOR HEAD OFFICE, REGIONAL OFFICE & BRANCH FOR SPTAGIRI GRAMEENA BANK @ SUVERY No. 261/3, VELLORE ROAD, CHITTOOR-517002

We, the undersigned have examined the above-mentioned Tender document, including amendment/corrigendum no. _____, dated _____ (if any), the receipt of which is hereby confirmed. We now undertake to execute the works in conformity with your above-referred document for the sum as finalized after tendering process, attached herewith in a separate envelope and made part of this tender.

If our tender is accepted, we undertake to execute the works mentioned above, in accordance with the time schedule specified in the tender document

We further confirm that, if our tender is accepted, we shall provide you with a security deposit of required amount in an acceptable form, for due performance of the contract. We agree to keep our tender valid for the period mentioned in the tender. We also accordingly confirm to abide by this tender up to the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.

We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities.

We confirm that we fully agree to the terms and conditions specified in above mentioned Tender document, including amendment/ corrigendum if any

(Signature & seal with date)

(Name and Designation) Duly authorized to sign Tender for and on behalf of M/s. _____

Place:



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(Public Sector RRB : Sponsored by Indian Bank)

సప్తగిరి గ్రామీణ బ్యాంక్
(ప్రభుత్వరంగ సంస్థ : ఇండియన్ బ్యాంక్ ద్వారా ప్రాయోజితం)

सप्तगिरि ग्रामीण बैंक
(सार्वजनिक क्षेत्र आरआरबी : इंडियन बैंक द्वारा प्रायोजित)

Date:



FORMAT OF AGREEMENT TO BE EXECUTED WITH L1 CONTRACTOR

This agreement is made and executed at Chittoor, on this _____ day of _____ 20__ between Saptagiri Grameena bank, a body corporate constituted under the Banking Companies (Acquisition & Transfer of undertaking) Act 1970 having its Head Office at Sai Yashus, 3rd Floor, Vellore Road, Chittoor 517002 represented by _____ and hereinafter called the 'Employer' and _____ No _____ represented by _____ its director/partner/proprietor/ _____ and hereinafter called the 'Contractor'. The term 'The Employer' and 'The Contractor' shall mean and include its successors and assignees.

Whereas the Employer is desirous to carry out Interior furnishing works of Chittoor, Head Office.

And whereas the Employer called for the tenders for the work enumerated in the tender documents annexed to this agreement.

And whereas the contractors have quoted their rates as given in the tender to the Employer on.....for the works enumerated in the tender documents amounting to Rs..... (Rupees) only.

The value of the offer stands as below:

Total amount quoted on Rs.

Rebate offered: ____% on Rs.

Contract Value: Rs.

And the parties having agreed upon the terms and conditions on which the contractors have to carry out the works for the Employer, the parties execute this agreement incorporating the agreed terms.

The contractors have agreed to execute the works enumerated in the tender booklet at the rates quoted therein less _____% (_____ percent) rebate.

CLAUSES

1. It is hereby agreed that the Employer will not pay any mobilization advance towards the work.
2. It is agreed that the contractors will submit the interim bills for values of 25% of the tendered amount.
3. It is hereby agreed and declared that all the provisions of the said specifications, conditions of contract enumerated in the tender booklet have been carefully read and understood by the contractors and the schedule of rates including the general instructions and the specifications contained in the tender schedule shall be binding upon the contractors and upon the employer as if the same had



been incorporated herein and shall be read and as part of these presents except to the extent such terms and modified under this agreement.

4. These articles of agreement shall be the main and dominant contract document between the parties and shall be read, interpreted and understood in the context of and supplemented by the provisions referred to in other clauses in this agreement and the schedule of contract form as signified and accepted by the contractors appended as an enclosure to this agreement.

5. The decision of the Employer shall be final and the contractors shall not object to the decision of the employer in this case.

6. The rates quoted by the contractors in the tender booklet shall include all direct and contingent expenses

7. The contractors shall be solely and entirely responsible for the procurement and collection of all the required building materials required for the execution of the entire works in all respects.

8. The site has been handed over to the contractors on __.

9. After the discussions with the employer, the contractors hereby agreed to complete the works in all respects before **along with civil work**. If the contractors do not hand over the building in all respects before along with civil work, they have to pay a penalty to the employer as per liquidated damages clause in the tender.

10. The contractors should submit their bills in stages

11. The contractors shall submit the bar chart and it should adhere to that particular date. If there is delay on stages of the work, the contractors have to pay the penalty as decided by the employer.

12. The rates quoted by the contractors shall be excluding of all the taxes as prevailing at on date and if there are any new taxes levied by the Government, the difference of tax shall be borne by the Employer.

13. The contractors shall be responsible for all the damages to the property and for any injury or loss, caused to the work or workmen and persons, animals or things employed by them. They shall effect insurance cover, as necessary and keep the employer fully indemnified and entirely free from all responsibilities in this regard. All repairs and damages caused by the contractors to the existing building during the construction period shall be carried out by the contractors at their own cost and expenses to the satisfaction of the employer/Architects.

14. In all the running bills certified by the architects, a retention amount of 8% of running bill amount excluding EMD will be held by the employer and will be released on final payment. The total security deposit (including EMD) at 5% of the final contract value



will be deducted and released after completion of defects liability period of 12 Months. Any defects pointed out by the employer/architects during this period shall be made good by the contractors. In case, if the contractor fail to do so, then the employer shall have the authority to get the work done by other means and the expenditure incurred will be deducted from the security deposit or any other dues.

15.This contract is neither a fixed lumpsum contract nor a piece work contract, but is a contract to carry out the above mentioned work to be paid for, according to actual measured quantities at the rates contained in the schedule of rates and probable quantities or as provided in the said conditions.

16. The employer hereby agrees to make the payments of the running bills within 15 days after certification from the architects.

17.The contractors have paid Demand Draft for a sum of **Rs 61,000/-** by way of Earnest money deposit and this shall not carry any interest. The successful contractor agrees to submit the Initial security deposit equal to 2% of the accepted value of the tender (inclusive of EMD) within 14 days of date of award of work by way of Demand Draft in favour of Saptagiri Grameena Bank payable at Chittoor.

18.It has been agreed upon that a percentage of the value of each running bill of the contractors shall be deducted from the bills towards the income tax at the prevailing rates. The same amounts will be remitted to the income tax departments and the TDS original certificate will be passed on to the contractors.

19.No escalation in rates will be considered for the completion of this project.

20.Rates quoted in the Schedule of quantities by the bidder shall remain valid throughout the execution and until completion of work within accepted period of completion as well as during authorized extension in period. If Bank decides to place work order for additional scope of work in the same premises or to amend the original work order for additional scope of work in the same premises, the contractor shall be bound to accept the same, at rates agreed in the original work order; provided such work order or amendment is issued prior to completion of the work contained in the original work order.

21.It has been agreed to accept the conditions of contract set forth

22.All statutory requirement such as labour act, state and central government insurance etc..., shall be the responsibilities of the contractors.

23.No other amounts whatsoever is payable by the employer towards lead and lift charges and all incidental charges, taxes local or general royalty payable to the government or local bodies etc..., of the region or on any other account.

24.All the materials should conform to ISI standard specifications and such standards as may be prescribed by the architects.

25. The contractors should make arrangements to provide barricading, and day



and night watchman during the tenure of this contract at their own expenses.

26. In case of any conflict in the specifications, and the drawings, the decision of the architect shall be final and binding on the contractors. Should there be any disagreement between the architects and the contractors, the decision of the employer shall be final.

27. The rates quoted by the contractors in the tender booklet shall include all the cost of materials, labour transport charges, conveyance, and lifting charges, for materials required for successful completion of the work and any other incidental charges and all taxes that may be payable by the contractors.

28. Necessary pillars shall be constructed by the contractors for bench mark at no extra cost to the employer as directed by the architects.

29. Payments of any compensation damages to any of the laborers employed by the contractors shall be the inclusive responsibility of the contractors and the contractors shall take care to insure their laborers. Compliance to all statutory obligations under state and central laws in this behalf shall be the responsibility of the contractors.

30. An order book shall be maintained in the work spot and the contractors shall sign in the order book in token of having one through the instructions issued by the inspecting officer and carryout the construction promptly and correctly.

31. The contractors shall take precautions against the damages for accident. No compensation will be allowed to the contractors for their tools, plant, materials lost or damages from any cause. The contractors shall be liable to make good the structure or plant damaged by any other cause at their own cost. The employer will not pay contractors any expenses or charges or repairing any damaged portion of the work done during the construction.

32. The contractors shall keep on site of works a qualified engineer as required as per the rules of regulations as their authorized representatives who will receive all the instructions from the employer architects or his authorized agent.

33. The employer/architects shall have the right to direct the contractors to progress the various items of works to the manner prescribed by the employer's engineer/ architect. The test of strength of the concrete shall be done by the contractors at their own cost.

34. All disputes and differences of any kind whatever arising out of or connecting with or touching with the contract of the carrying out of the works whether during the progress of the works or after completion and whether before or after the determination, abandonment or breach of the contract, shall be referred to and settled as per Clause 38 of the General conditions of Contract Arbitration and



jurisdiction clause.

35. Should any matter pertaining to this contract were to be referred to a court of law, the courts in **Chittoor city** only shall have jurisdiction. Whenever it is not expressly provided or agreed upon, then any expenses will be met and or services provided by the contractors.

In witness whereof the employer and the contractors above mentioned have here to set their hands on the day, month and year first above mentioned.

**Signed for and on behalf of the
the Contractor**

**Signed for and on behalf of
Bank**

For M/s. For SAPTAGIRI GRAMEENA BANK

Witnesses:

1.

2.



From

.....

DECLARATION

I/we,.....

.

hereb
y declare that our firms/company is not blacklisted/debarred/no
litigation pending with any of the
Nationalized/PSUs/PSBs/State/Central Government.

If the information is found to be incorrect during the
tender/execution of the project, we will be liable for legal action,
forfeiture of EMD and the pending bills for payment.

Yours Sincerely,



PROC-2C

PRE-CONTRACT INTEGRITY PACT

General

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on ___ day of the month of ___YYYY, between, on one hand, Saptagiri Grameena Bank, a body corporate constituted under the Banking Companies (Acquisition & Transfer of undertaking) Act 1970 having its Head Office at Sai Yashus, 3rd Floor, Vellore Road, Chittoor 517002 (hereinafter referred to as the "BUYER" which expression unless repugnant to the context or meaning thereof shall mean and include its successors and assigns) of the First Part and M/s_____represented by Shri. __General Manager (hereinafter called the "BIDDER/SELLER" which expression shall mean and include unless the context otherwise requires, his successors and permitted assigns of the Second Part.

WHEREAS the BUYER proposes to procure _____ (Name of the equipment/item/service) and BIDDER/SELLER is willing to offer/has offered the equipment/item/service and

WHEREAS the BIDDER is a private company/public company/Government undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Public Sector Bank performing its functions on behalf of the President of India.

NOW, THEREFORE

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

Enabling the BUYER to obtain the desired said equipment/item/service at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement and

Enabling BIDDER to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follow:

1. Commitments of the BUYER

1.1. The BUYER undertakes that no officials of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or



implementation process related to the contract.

- 1.2. The BUYER will during the pre-contract stage, treat all BIDDERS alike and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.3. All the officials of the BUYER will report to the Bank/appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

3. Commitments of BIDDERS

4. **The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-**

- 4.1. The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 4.2. The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Bank/Government for showing or forbearing to show favour or disfavor to any person in relation to the contract or any other contract with the Bank/Government.
- 4.3. *BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.



Foreign Bidder: Name and address of agents and Representatives in India. Indian Bidder: Name and address of Foreign Principals / Associates

4.4. *We hereby disclose the payments to be made by us to agents/brokers or any other intermediary, in connection with this bid/contract.

4.5. * Bidder is engaged in defense supplies as Manufacturer / Integrator / Authorized Government sponsored export entity: Yes / No

If yes, we confirm we have not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way of recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.

4.6. The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.

4.7. The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.

4.8. The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

4.9. The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.

4.10. The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

4.11. The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.

4.12. If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the



BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender. *The term relative for this purpose would be defined in Section 6 of the Companies Act 1956.*

- 4.13. The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

5. Previous Transgression

- 5.1. The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of the Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or Public Sector Banks in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.
- 5.2. The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded can be terminated for such reason.

6. Earnest Money (Bid Security)

- 6.1. While submitting commercial bid, the BIDDER shall deposit an amount Rs...../- (to be specified in RFP) as Earnest Money/Bid Security, with the BUYER through any of the following instruments:
- Bank Draft or Pay Order in favour of Saptagiri Grameena Bank
 - A confirmed guarantee by an Indian Nationalised Bank/Scheduled Commercial Bank other than RRBs/ Co-operative Banks, promising payment of the guaranteed sum to the BUYER on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the BUYER shall be treated as conclusive proof of payment.
 - Any other mode or through any other instrument (to be specified in the RFP)
- 6.2. The Earnest Money/Security Deposit shall be valid upto to submission of Bank Guarantee covering warranty period/post warranty period for performance of the Contract.
- 6.3. In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of Sanctions for Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 6.4. No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

7. Sanctions for Violations

- 7.1. Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER)



shall entitle the BUYER to take all or any one of the following actions, wherever required:-

- i) To, immediately, call off the pre-contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
- ii) The Earnest Money/Security Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason thereof.
- iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER
- iv) To recover all sums already paid by the BUYER, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Base Rate of Saptagiri Grameena Bank, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract for any other office/department/section/stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
- v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.
- vi) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- vii) To debar the BIDDER from participating in future bidding processes of the Government of India/Public Sector Banks for minimum period of five years, which may be further extended at the discretion of the BUYER.
- viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
- ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.
- x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact

7.2. The BUYER will be entitled to take all or any of the actions mentioned at para 6.1 (i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act 1988 or any other statute enacted for prevention of corruption.



7.3. The decision of the BUYER to the effect that a breach of the provision of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent Monitor(s) appointed for the purpose of this Pact.

8. Fall Clause

8.1. The BIDDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU/PSB and if it is found at any stage that similar product/systems or subsystems was supplied by the BIDDER to any ministry/Department of the Government of India or a PSU/PSB at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be returned by the BIDDER to the BUYER, if the contract has already been concluded.

9. Independent Monitors

- 9.1. The BUYER has appointed Independent Monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission.
- 9.2. The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact
- 9.3. The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 9.4. Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings
- 9.5. As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.
- 9.6. The BIDDER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.
- 9.7. The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 9.8. The Monitor will submit a written report to the designated Authority of BUYER/Secretary of the Department/General Manager, within 8 to 10 weeks from date of reference or intimation to him by the BUYER / BIDDER and should the occasion arise, submit proposals for correcting problematic situations.
- 9.9. In case of sub-contracting, the Principal contractor shall take the responsibility of the adaptation of Integrity Pact (IP) by the Sub-contractor



10. Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and document in English and shall extend all possible help for the purpose of such examination.

11. Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

12. Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

13. Validity

13.1. The validity of this Integrity Pact shall be from date of its signing and extend up to 5 years or the complete execution of the contract to the satisfaction of both BUYER and the BIDDER/SELLER, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

13.2. Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

14. The parties signing the Integrity Pact (IP) shall not approach the courts while representing the matters to IEMs and he/she will await IEMs decision in the matter.

15. The parties hereby sign this Integrity Pact at _____ on _____

BUYER
Name of the
Officer:
Designation:
Dept:

BIDDER
CHIEF EXECUTIVE OFFICER

Witness
1. _____
2. _____

Witness
1. _____
2. _____

* Provisions of these clauses would need to be amended / deleted in line with the policy of the BUYER in regard to involvement of Indian agent of foreign suppliers.



PARTICULAR TECHNICAL SPECIFICATION FOR ELECTRICAL WORK

1 SCOPE - The scope of work in this project includes the following items of works:

- 1 Supply and installation (S/I) of 11KV HTVCB
- 2.1.2 S/I of 0.433 KV outdoor type distribution transformer
- 2.1.3 S/I of LV (433/415 V) switch gear consisting of normal and emergency power supply section.
- 2.1.4 S/I of 433/415 V DG set with acoustic enclosure including AMF panel
- 2.1.5 S/I of street and area lighting with all fittings as required
- 2.1.6 S/I of DB, L&F point, power point etc.
- 2.1.7 P/I of small distribution panel and pump panel etc.
- 2.1.8 P/I of APFC (capacitor) panel

This specification covers supply of materials, fabrication, and erection, testing and commissioning of Electrical Switch boards, wiring system, light fittings and other associated items required for successful completion of the work. Any equipment, device, component or work not specifically mentioned in this specification but considered essential for proper design and operation shall be included by the tenderer in his offer. Applicable provisions and conditions of contract shall govern the work under the Section. Approval of substation from competent authority and providing electrical power to substation and liaison with supply authority etc. are in the scope of work.

2.2 GENERAL

The primary power supply will be at 11KV in the sub-station and then stepped down to 415/ 433 V. The power supply system in the building & retail outlet stations shall be made available at 415/240 Volts, 50 Hz., A.C. 3 phase 4 wire, earthed neutral from local Electric Supply Authority.

All supply and installation work shall be carried out as per specification and in accordance with the construction drawings and shall conform to requirements called for in the Indian Electricity Rules 1956 with its latest amendment, Indian Electricity Acts and all relevant codes and practices issued by the Bureau of Indian Standard as amended up-to-date. The work shall also comply with the provisions of the general or local set of legislatures and regulations of any local or other statutory authority which may be applicable.

The Contractor for electrical work must possess valid Electrical contractor's License endorsed by the Licensing Board, Directorate of Electricity of concerned State Government for the type of work he shall execute

The work to be provided for by the Contractor, unless otherwise specified, shall include but not limited to the following:

- i: Furnish all labour, supervision, services, materials, supports, scaffolds, construction equipment, tools, plants and transportation etc required for the proper execution of the job as per drawings, specification and schedule of items and get all necessary tests on materials and work conducted at their cost.
- ii: Notwithstanding the electrical layout shown in the drawing, the contractor shall obtain further approval of the layout at site from the Engineer-in-Charge before commencement of the work.
- iii: Furnish samples of materials on display board at site for approval including arranging necessary tests on samples, as directed by the Engineer-in-Charge in an approved Laboratory.
- iv: To extend facilities to the Engineer-in-Charge to inspect work and assist them to obtain samples, if they so desire.
- v: Furnish general arrangement drawings of the switchboard and other fabrication items, which the Engineer-in-Charge may direct for their approval.
- vi: To employ a fulltime experienced supervisor having electrical supervisor's certificate of competency endorsed by the Licensing Board, Directorate of Electricity of concerned State to supervise the work. The



Engineer-in-Charge have the right to stop the work if the contractor's supervisor is not present when the work is being carried out.

vii: To keep the appropriate Electrical Inspector & supply authority be informed from time to time as per the execution programmer of the work shall be the responsibility of the contractor and he shall be responsible to ensuring that all work passes their approval.

viii: To provide all incidental items not shown or specified in particular but necessary for proper execution of works in accordance with the drawing, specification and schedule of items.

ix: To maintain the work and keep them maintained till handed over to the owner in proper working condition.

x: Co-ordinate with all agencies including those engaged by the owner for proper execution of the job.

xi. To furnish the required drawing in plan and single line diagram of sub-station equipment's fulfilling all the norms and submit all required documents to directorate of electricity / supply authority or obtaining approval and supply of electricity.

3.3 MATERIALS

Materials shall be of the approved make & quality. A list of materials of approved brand and manufacturer is indicated in the annexure. If the list of materials mentioned above stipulates two or more or alternative brands/makes of any product, the decision as to which brand/make shall be used in the work shall be taken by the Engineer in charge and the contractor shall provide the brand/make so selected without any extra cost. In case, materials are required to be obtained from any manufacturer other than those listed on account of non-availability then prior approval from Engineer-in-Charge will be necessary, supported by relevant test certificates qualifying the required standard. Further tests as directed by the Consultant shall also be carried out by the contractor at their own cost, if required. Contractor shall obtain approval from the Engineer-in-Charge of sample of all materials before placing order and the approved sample shall be carefully preserved on the display board in an appropriate manner at the site office for verification by the Engineer-in-Charge. For standard bought out items, the sizes manufactured by the firms listed shall prevail when there is discrepancy in the sizes mentioned in the schedule without any financial adjustment.

3.4 SPECIFICATIONS

Unless specifically mentioned otherwise, all applicable codes and standards published by the Bureau of Indian Standard and all other such publication as may be published by them after construction work starts, shall govern in respect of design, workmanship, quality and properties of material and method of testing.

3.5 SAFETY

All equipment shall be complete with approved safety devices wherever a potential hazard to personnel exists and with provision for safe access of personnel to and around equipment for operation and maintenance functions. Special care shall be taken to ensure against entry of rats, lizards and other creeping reptiles, which may create electrical short circuit inside live equipment.

3.6 DRAWINGS

On completion of all work the contractor shall furnish three copies of Ammonia print along with the original tracing of the following "As built" drawings to the Engineer-in-Charge without any extra cost.

I. Plan layout of all electrical equipment's in sub-station e.g. HT, VCB, transformer, LT panel, DG set, earthing etc. as required.

II. Single line diagram of sub-station



III. Wiring diagram for final power / lighting distribution system showing the rating/ size of switchgear, cables, conduits, lighting fixtures and all accessories for individual installation.

IV. Detailed general arrangement drawings of the switchboard complete with dimension in metric units.

V. Drawings showing the route of conduits and cables with sizes, lengths, sources and destination of all cables with the circuit designation number, etc.

3.7 TEST CERTIFICATES AND INSTRUCTIONS

Unless specifically mentioned otherwise, the contractor shall furnish, Manufacturer's Test Certificate with the delivery of the equipment to the Engineer-in-Charge and Instruction Manual in English for operations and maintenance of equipment wherever required.

3.8 TESTING AND COMMISSIONING

Before each field test, the contractor shall obtain the permission from the Engineer-in-Charge and all tests shall be conducted in the presence of duly authorized representative. Records of each test shall be prepared immediately after the test and this record shall be signed by contractor's representative conducting the test and the site engineer attending the test. Copies of their record in quadruplicate shall be handed over to the Engineer-in-Charge. A certificate in quadruplicate shall be furnished by the contractor countersigned by the certified supervisor under whose direct supervision the installation was carried out and the Engineer-in-Charge. This certificate shall be in the prescribed forms in addition to the test certificate required by the Local Electric Supply Authorities

3.9 COMPLETION OF WORK

Each item of the electrical work shall be considered as complete in all respects only after obtaining permanent service connection from local power supply authority, energizing, testing and final commissioning of the complete installation as directed by the Engineer-in-Charge. Payment on each item of electrical work shall be made as per measurement and proportionate to the quantum of work completed. In the event of any dispute with regard to the proportion of work complete, the decision of the Engineer-in-Charge shall be final and binding to the contractor.

3.10 PREAMBLE TO THE SCHEDULE OF WORK

The successful tenderer shall carefully go through the Clauses of Invitation to Tender, Specification, Schedule of Work and drawings and shall include in his rates any sum he may consider necessary to cover the fulfillment of the various clauses contained therein. Unit prices stated in the schedule of work against the item of work shall be inclusive of all installation, accessories and consumables necessary to complete the said work within the contemplation of the contract. Beyond the unit prices no extra amount will be paid for incidental contingent work and materials.

The quantities mentioned in the schedule of work are probable quantities and it must be clearly understood that the contract is not a lump sum contract, that the probable quantities, the value of the entire tender are only indicative and Employer does not in any way assure the tenderer or guarantee that the actual quantity of work would correspond to the probable quantities in the tender. No change in unit rate will be admissible on any variation of quantity.

3.0 PARTICULAR TECHNICAL SPECIFICATION FOR WIRING SYSTEM

3.1 SCOPE

This specification covers supply of materials, erection and commissioning of distribution wiring, connection to distribution boards, cable laying, earthing and miscellaneous items. Applicable provisions and conditions of contract shall govern the work under the section.



GENERAL

Work to be provided for by the Contractor, unless otherwise specified, shall include but not be limited to the following:

3.1.1 Furnishing of labour, materials, supports, scaffolds, transportation, etc required for the work.

3.1.2 To provide all incidental items not shown or specified in particular but reasonably be implied or necessary for successful completion of the work in connection with the drawings, specification and schedule of items.

3.1.3 To provide all supervision for proper execution of the work.

3.1.4 To conduct and bear all costs in respect of any test advised. After completion of supply and installation of wiring system and earthing, if any defect in the material or workmanship is found by the Engineer-in-Charge, the contractor shall remove the same and supply better and approved materials at his own cost. All precaution against theft and fire shall also be taken by the contractor.

3.2 MATERIALS

All materials used in the work shall be ISI approved quality and in its absence conforming to the IS Specification.

WIRING SYSTEM

The electric load of all lights, power outlets, etc. shall be balanced across the three phases in case of 3ph 4wire system. Generally, the final loading of any sub-circuit for lights and fans shall not exceed 800 watts and shall not be connected to more than total 10 fans, lights, socket outlets, etc. Bell push if operated at low voltage shall be fed from a separate circuit of distribution board. The 16 Amps sub-circuit for power shall be connected to a maximum one 16 Amp. socket outlet or two 6 Amp. socket outlets.

A power circuit shall always be originating from a distribution board or MCB DB and the same shall run in a separate conduit. The point wiring shall mean wiring from one way of distribution board to point of utilisation of electricity i.e. where the load is applied and this shall include complete wiring from distribution board, supply and fixing of switch board, controlling switches, ceiling rose, batten holder and socket outlet, etc. Insulated or covered earthing conductors where used, shall have green insulation braiding or covering as appropriate. Under no circumstances shall the colour green be used for other than earthing conductor. In addition where it is required, cables of different colours be used. For identification purposes the following system shall be employed :

Red or any colour (other than black or green)	For phase or switch wire
Black	For Neutral
Green	For earth



Unless otherwise mentioned in the schedule of quantities, single way porcelain/ bakelite terminal connectors with nickel plated brass inserts and screws to suit the conductor size shall be used for intermediate wiring/ joints in junction boxes and in switch boards or by any other method approved by the Consultant/ Engineer-in-Charge.

Distribution wiring in conduit to light, fan, plug points etc. shall be done in looping in system. In this system, no joints or connections shall be made anywhere of the system except at terminating points such as, at terminals of switches, ceiling roses, etc. and in case of socket outlets, at the socket terminals. Intermediate wiring joints of neutral wire in junction boxes will not be permitted.

In the looping back system of wiring on hard wood batten, the wiring shall be done without any junction or connector boxes on the line. All intermediate joints or connections shall be made in the switch board only. Intermediate wiring joints of neutral wire in the junction box will not be permitted.

CONDUIT WIRING

All conduit shall be ISI marked and finished with rigid PVC along with conduit accessories. Conduit less than 20mm in diameter shall not be used. All conduits shall be 1.4 to 1.8 mm thickness below 32 mm dia. and 1.6 to 2.2 mm thickness for 32 mm dia. and above.

The conduit for each circuit shall be erected complete with necessary fittings before drawing in of any wire. The saddle shall be fixed at an interval of not more than 750 mm apart for vertical run and 600 mm apart for horizontal run.

The joint in conduits shall be made by means couplers and accessories only to ensure electrical continuity throughout. Junction boxes shall be provided with covers to render them dust and damp proof. The conduit accessories having pull outlet for conductors shall only be used in all conduit installation. P.V.C. conduit conforming to IS: 7537 (Part-III) shall be used. The thickness of P.V.C. conduit shall be adequate to withstand mechanical injuries. PVC conduit accessories conforming to IS: 3419-1976 shall be used along with P V C conduit.

The entire conduit system shall be effectively earthed by means of suitable earthing conductors and the resistance from any point to earth shall not be more than one OHM.



CONCEALED WIRING

Making of chase: The chase in the wall shall be filled up neatly made and be of ample dimensions to permit the conduit to be fixed in the manner desired. In case of buildings under construction, chases shall be provided in the wall, ceiling etc. at the time of their construction and shall be filled up neatly after erection of conduit and brought to the original finish of the wall. Specially for ceiling, conduit shall be laid before casting.

Fixing of conduit in chase : The conduit in chase in the wall shall be fixed by means of staples or by means of saddles not more than 60 cm apart. Fixing of standard bends or elbows shall be avoided as far as practicable and all curves maintained by bending the conduit pipe itself with a long radius which will permit easy drawing of PVC insulated wires.

Inspection boxes : Suitable inspection boxes shall be provided to permit periodical inspection and to facilitate removal of wires, if necessary. These shall be provided with inspection box covers.

Types of accessories to be used : All outlets, such as switches, wall sockets, etc. may be either flush mounting type or of surface mounting type. The outlet box shall be mounted flush with the wall. The metal box shall be effectively earthed with conduit by an approved means of earth attachment.

Fish wire : 1 x 18 SWG G.I. wire inside the conduit and accessories to be provided with an extension of 250 mm at both the conduit ends.

Connector Boxes, Draw-in-Box, Junction Boxes : These shall be constructed from 16 SWG M.S. sheet and have M.S. cover. Minimum size for connector box is 150mm x 100mm and for Draw-in-Box is 100mm x 100mm with required depth upto 50mm.

Fan Hook Box : These shall be 100mm dia x 65mm depth, constructed from 14 SWG M.S. sheet and provided with one 12 mm dia. M.S. rod of 300mm long having 'U' bend inside the box.

Painting : Both inside & outside wall of switch board, connection box, draw-in-box and other M.S. accessories shall be painted with two coats of anti-corrosive paint in addition to other painting instructions given elsewhere.

WIRES

Unless otherwise mentioned in the schedule of quantities, only single core PVC insulated / PVC insulated & sheathed cable consisting of multistrand / flexible copper conductor and of approved manufacturers conforming to relevant I.S. shall be used for wiring in conduit system. The maximum number of wires drawn in one conduit shall not be greater than the recommended number given in the Table – of CPWD specification.



INSTALLATION AND WIRING OF DISTRIBUTION BOARD/ MCB DISTRIBUTION BOARD.

Where fixing of distribution board/ MCB DB on double teak wood board is specified only hinged type wooden board with brass hinge shall be provided and the size of the board shall be such as to match the size of the Distribution board/ MCB DB. A minimum margin of 25 mm shall be provided on all sides of the distribution board/ MCB DB. The outgoing circuit shall be taken out through a horizontal slot at the rear side of the distribution board/ MCB DB enclosure.

Where fixing of Distribution board/ MCB DB on M.S. frame is specified, the frame shall have sufficient mechanical strength to carry the weight of the DB./ MCB DB.

Where fixing of Distribution board/ MCB DB will be of concealed type, the chase in the wall shall be neatly made and be of ample dimensions to permit the DB to be recessed in wall and flushed with finished wall surface.

The cable / wires shall be connected to the terminal only by soldered or crimped lugs, unless the terminal is of such a form that it is possible to securely clamp them without cutting away of cable strands.

All bare conductors shall be rigidly fixed in such a manner that a clearance of at least 25 mm is maintained between conductors and material other than insulating material.

CABLES

TYPE AND QUALITY OF CABLES

Unless otherwise specified in the Schedule of Quantities all wiring cables shall be P V C insulated and P V C sheathed conforming to relevant IS Standard. The conductor of cable shall be of stranded wires of aluminum or copper as specified. All power cables shall be 1100 volts grade, PVC insulated, PVC sheathed and armored with stranded aluminum conductor. Materials should be obtained from the approved list of manufacturers/ brands as indicated in the document.

HANDLING OF CABLES

It shall be ensured that both ends of the cables are properly sealed to prevent ingress / absorption of moisture by the insulation. When the cable drums have to be moved over short distances, they should be rolled in the direction of the arrow marked on the drum. While removing cables, the drum shall be properly mounted on jacks or on a cable wheel or any other suitable device, making sure that the spindle, jack, etc. are strong enough to take the weight of the drum.

DEFECTIVE CABLES

Cables with kinks and straightened kinks or with similar apparent defects like defective armouring, etc. shall not be installed.



BENDING RADIUS

Cable runs shall be uniformly spaced, properly supported and protected in an approved manner. All bends in runs shall be well defined and made with due consideration to avoid sharp bending and kinking of the cable. The minimum safe bending radius for all types of P V C cables shall be taken as 12 times the overall diameter of the cable. Wherever practicable, larger radius shall be adopted.

LENGTH OF CABLES

All cables shall be laid in one length. No joint shall normally be made at any intermediate point in through runs of cables, unless the length of the run is more than the length of the standard drum supplied by the cable manufacturer. In such cases where jointing is unavoidable, the same shall be made by means of standard cable joint boxes/ kits. Before cutting the cables, the requisite length between terminals (including extra length required at loops) shall be carefully measured.

STRIPPING OF OUTER COVERING

While cutting and stripping the outer covering (i.e. sheathing of the cable, care shall be taken that the sharp edge of the cutting instrument does not cut or damage the inner insulation of the conductor. The protective outer covering of the cable shall be stripped off near the connecting terminal, the protective covering being maintained up to a point as close a possible to the connecting terminal.

CABLE LAID IN TRENCHES

Cables shall be laid generally in accordance with Indian Standard Code of Practice IS: 1255.

SIZE OF TRENCH

Unless otherwise mentioned in the Schedule of Quantities, the minimum width and average depth of trench for laying a single cable in ground shall be 460mm and 760mm for L.T. and 1000 mm for H.T. cable respectively. For laying of multiple 11 KV and 6.6 KV grade power cables, horizontal axial spacing shall be 250mm. For 1100volt grade power cables, the horizontal axial spacing shall be 150mm. However, communication cable shall not be taken in a common trench. Where more than one cable are to be laid in the same trench in horizontal formation, the width of trench shall be increased according to the above stated inter-axial spacing between the cable, (except where otherwise specified). There shall be a clearance of at least 150 mm between the trench edge and axis of the end cable.

EXCAVATION OF TRENCH AND PREPARATION OF BED

The trench shall be excavated in reasonably straight line. Where there is a change in direction, suitable curvature shall be provided. Where gradients and changes in depth are unavoidable, these shall be gradual.

Adequate precautions shall be taken during excavation not to damage any existing cables, pipes or similar installations in the proposed route. Where bricks, tiles or protective covers or bare cables are encountered, further excavation shall not be carried out without the approval of the Engineer-in-Charge.

The bottom of the trench shall be level across the width and free from stone, brick bats, etc. The trench shall be then provided with a cushion of fine sand, the thickness of the cushion being not less than 75mm.



LAYING OF CABLES

All cables shall be tested for proper insulation prior to laying. The cable drums shall be transported on wheels to the place of work. The cables shall be laid out in proper direction as indicated on the drum using cable drum lifting jacks. In case of higher size cables, the laid-out cables shall run over rollers placed at close intervals and finally transferred carefully on to the trenches and racks, care shall be taken so that kinks and twists or any mechanical damage does not occur in cables. Only approved cable pulling grips or other devices shall be used. The entire length of cable shall, as far as possible, be paid in one operation. However, if this is not possible, the remainder of the cable may be shifted from position by 'flaking' i.e. by making one long loop in the reverse direction. For crossing water, gas or sewerage pipes, etc, cables shall be taken above the pipes where minimum 500 mm clearance is not available. The cable shall cross these pipes through RC/ GI pipes at a minimum depth of 750 mm from finished ground level keeping the distance between the utility pipes and pipe carrying cables 300 mm minimum.

While laying cables parallel to building, railway track, utility pipelines, drainage, sewerage, etc. the minimum clearance shall not be less than 1000mm.

Adequate length of cables shall be pulled inside the switch boards, control panel terminal boxes, feeder pillar etc. so as to permit neat termination of each core.

SURPLUS CABLE

At the time of original inspection, approximately 1 meter of surplus cable (in the form of a loop or otherwise) shall be left at each entry or exit of the cable at a pole or at the pillar box, or near any terminal as may be directed by the Consultant / Engineer-in-Charge.

PROTECTIVE COVER FOR CABLES DIRECTLY BURIED IN GROUND

Except where otherwise directed by the Consultant/Engineer-in-Charge, the cable (for the entire length in trench) shall be protected by a layer of bricks laid flat on top and shall be provided at least by 75 mm sand cushioning both at top and bottom. This brick protection shall cover all the cables in the trench (single cable or multiple cables, in horizontal formation). In case of a single cable, the brick protection shall consist of one brick flat (with the length along the width of the trench) and supported on two lines of brick-on-edge, one on each side of the cable (with the length of the bricks along the length of the trench).

For multiple cables in horizontal formation, in addition to the two outer lines of brick-on-edge, there shall be additional lines in between adjacent cables. The top cover of brick flat shall extend to cover all the cables, each brick being supported on the lines of brick-on-edge.

BACK FILLING OF TRENCH

After laying of cables the remaining portion of the trench shall be back filled with good excavated soil and well rammed in successive layers not exceeding 300 mm depth each and duly compacted to the satisfaction of the Consultant/ Engineer-in-Charge. Surplus soils of excavation shall be removed or disposed of as per direction of the Engineer-in-Charge.

All material like sand, brick and clamp, etc. shall be supplied by the contractor. The cable laying rate shall be inclusive of all these items.



CABLES LAID THROUGH PIPE SLEEVES

Entry of cable from underground trenches to the building or tunnel shall be through pipe sleeves. Necessary precaution shall be taken to make entry point fully water-tight by properly sealing the pipe sleeves in a manner approved by the Engineer-in-Charge.

Where cables are required to cross-roads, railway tracks and surface drains, they shall be taken through pipe sleeves at a minimum depth of 1000 mm.

CABLE ROUTE MARKER

Cable route markers shall be provided at each joint, entry to buildings, each turn, either side of the road crossings and at 30-meter intervals for straight cable runs and at location directed by the Engineer-in-Charge.

The cable marker shall be of cement concrete slab of R.C.C. type (1:2:4) and of size 600mm x 300mm at the bottom and 500 mm x 200 mm at the top with a thickness of 100 mm with marking 'CABLE' and shall be laid flat at finished ground level centered over the cables for easy identification.

Unless otherwise specified in the schedule of quantities, galvanized Iron type cable route marker of size 100mm dia 50 mm thick G.I. Plate with marking 'CABLE' thereon welded to 35 mm x 35mm x 6mm angle iron 600mm long fixed in a rigid manner may also be used as approved by the Engineer-in-Charge

All materials like cable route marker, sand and cement, etc. for fixing the same to be supplied by the contractor. The cable laying rate shall be inclusive of all these items.

CABLES TERMINATION

Power cable termination shall be carried out in such a manner as to avoid strain on the terminals by providing suitable clamp near the terminals. All power cables shall be terminated to the circuit breaker, switch fuse units, busbars, etc. by means of suitable sizes crimping type or soldering type cable socket / lugs / ferrules and empire tape up to palm of the cable lug. PVC tape shall not be used directly, because of its poor thermal stability. It may however, be used over the empire tape. Control cables shall be terminated by crimping or directly clamped in the terminal blocks by screws.

When pinching the smaller size conductor directly in the terminal bore of the switches, the individual strands shall be fanned out and cleaned by wire wool or emery paper and the cleaned surface shall be coated with a thin layer of oxide inhibiting grease. The conductor shall be tightened fully to the terminal bore but over tightening shall be avoided.

For connection to busbars and other terminals, brass or cadmium plated nuts/ bolts and washers shall be used. Copper cables shall never be terminated directly on aluminium busbar. Suitable measure shall be taken to avoid heating due to bimetallic contacts.

A selection chart of crimping type cable lugs for various combination of cables/ busbar/ fuse switch terminals is shown below :



Material of busbar/ switch terminals	Material of Cables	Material of crimping lug
: Aluminium	: Aluminium	Aluminium over tin plated copper
: Copper	Aluminium	Aluminium lug with copper plated palm
: Silver/tin plated copper	Aluminium	Aluminium or tin-plated copper
Aluminium	Copper	Tin plated copper
Copper	Copper	Copper or tin plated copper

3.3 EARTHING

All non-current carrying metallic part of various electrical equipment's as well as cable armoring, metallic conduit, cable racks/ trays, brackets, supporting structures, etc. shall be effectively earthed by not less than two separate and distinct earth connection in accordance with Indian Electricity Rules, and the relevant Indian Code of Practice for earthing 3043-1987.

EARTH ELECTRODE PLATE ELECTRODE

Where plate electrode for earthing is to be employed, the size of the plate shall not be less than 600 mm x 600 mm x 6.3 mm for G.I. plate in thickness and 600 mm x 600 mm x 3.15 mm thickness in case of copper plate. The plate shall have a drilled hole 14 mm dia. at the center. The G.I. flat of not less than 40 mm x 6 mm (1 no. 25 mm x 6 mm G.I. flat for lightning conductor installation) should be connected to the plate by means of a 65 mm long 12 mm dia galvenised bolt, double nuts using double galvenised washers. In case of copper plate, copper flat of not less than 25 mm x 6.0 mm shall be used as the earth lead. The flat shall first be fastened on one side of the plate, leaving adequate length of flat, which shall be taken over to the other side i.e. to the earth busbar, switchboard, pole, continuous earth wire for O.H. line, service bracket, lightning arrestor or the object to be earthed and be fastened as per the details of IS:3043-1987. No joint on the earth lead conductor is permitted. Every care shall be taken to ensure that the ends of the wire/ flats have been securely clamped by the bolt on cleaned surface of the plate and establish a good electrical contact.

The plate shall be buried vertically at a minimum of 3.6 M below the ground level for sandy soil and 2.0 m below the ground level for normal soil. In order to place the same at the prescribed depth, the dimension of pit to be excavated shall be 900 mm x 900 mm x 4 m deep. The G.I. plate shall be placed in position by the contractor only after the inspection of excavated pit and approval is obtained from the Consultant/ Employer.

After placing the plate the earth lead conductor shall be protected by means of a continuous length of G.I. pipe (Class B) having 50 mm dia (minimum) bore or route depending upon the size of the lead, right from the plate upto a height of 600 mm meter (2 ft.) above ground level. The whole length of pipe shall be filled with bituminous compound of approved make and brand. The molten compound shall be poured from the top end of the pipe and topped up to overflowing.

A masonry inspection pit for the earth station of inside dimension approximately 300 mm x 300 mm x 300 mm depth (unless otherwise stated) shall be built with 125 mm thick cement mortar (6:1) brick work with 1st class bricks, both inside and outside plastered with 20 mm thick and neatly cemented 1.5 mm thick, inside, top and outside around the top of the earth pit. The opening on top shall be provided with C.I. manhole ring having lockable C.I. cover fixed and flush with the outside finished ground level.



Electrodes shall be buried at least 2 meter away from masonry structure/ building/ pole or object to be earthed. However, earthing electrodes for L.C. installations should be as close to the down conductors as possible. Electrodes when installed in parallel, shall not be placed less than 2 meter apart and preferably placed at distance greater than 6 meters.

All the excavations shall be duly back filled, dressed and rammed.

EARTH BUSBAR

GALVANISED M.S. FLAT

Unless otherwise specified in the schedule of quantities, the earth bus bars shall be of heavily galvanised M.S. Flat of cross section 25mm x 6mm having adequate number of drilled holes with 6mm galvanised steel bolts, nuts, plain and spring washers for securely connected the earth leads and the continuity of conductor. The bulbar shall be fixed on wall, having clearance of 6mm from wall with spacing insulators with 13mm dia G.I. rag bolts, spaced about 50mm apart.

EARTH LEAD CONDUCTOR

The earth lead for each electrode shall be 7/10 S W G stranded G.I. wire connected securely to the earth electrode and earth bulbar. The earth lead shall be mechanically protected with a continuous length of 25mm dia G.I. Pipe (Class 'B') right from the electrode to the earth bulbar and the pipe shall be filled with bituminous compound.

Galvanised M.S. Flat earth conductor directly buried in ground shall generally be taken at a depth of 600 mm and shall be provided with one coat of bituminized paint, one layer of half lapped bituminized tape and a final coat of bituminized paint to prevent corrosion.

The earth conductor when laid inside building/ sub-station shall be taken either exposed on cable racks/ trays, walls, ceiling, etc. or embedded in concrete depending on installation. Galvanised M.S. saddles clamped to M. S. flat spacers with tapped holes shall be used for clamping earth conductor. Flats shall be supported at intervals not exceeding 500 mm and stranded wires at intervals of 300mm.

Connection of earthing leads to earth electrodes and termination of flat earth continuity conductor to equipment shall be made by means of bolting. Connection of stranded earth wire to earth bus as well as to equipment shall be made through crimping type lugs and bolting. Jointing and tapping of flat earth conductor shall be done by means of welding.

The earth resistance from any point of the earthing system shall not be more than one ohm.

3.4 WORKMANSHIP AND INSTALLATION WORK

The workmanship shall be of good commercial quality and all supply material and installation work shall be completed to the full satisfaction of the Engineer-in-Charge.

4.0 PARTICULAR TECHNICAL SPECIFICATIONS FOR LIGHTNING PROTECTION SYSTEM



4.1 SCOPE

This specification covers supply of materials, fabrication and erection of Lightning protection system comprising air terminations, horizontal conductors, down conductors and earth electrodes. Applicable provisions and conditions of contract shall govern the work under the section.

4.2 GENERAL

Work to be provided for by the Contractor, unless otherwise specified, shall include but not be limited to the following:

4.2.1 Furnishing of labour, materials, supports, scaffolds transportation, etc required for the work.

4.2.2 To provide all incidental items not shown or specified in particular but reasonably be implied or necessary for successful completion of the work in connection with drawings, specifications and schedule of items.

4.2.3 To provide all supervision for proper execution of the work After completion of supplying and installation of lightning protection system, if any defect in the material or workmanship is found by the Engineer-in-Charge the contractor shall remove the same and supply better and approved materials at his own cost to the satisfaction of the Engineer-In-Charge. All precaution against theft and fire shall also be taken by the contractor.

4.3 MATERIAL

All material used for lightning conductors, down conductors, earth termination network, etc. of the protection system shall be reliably resistant to corrosion or be adequately protected against corrosion and generally conforming to IS:2309. The entire lightning protection system shall be mechanically strong to withstand the mechanical forces produced in case of a lightning stroke.

HORIZONTAL AIR TERMINATION CONDUCTOR:

Unless otherwise specified air termination shall be horizontal conductor. The horizontal air termination shall be so inter-connected that no part of the roof is more than 9 meters away from the nearest horizontal conductor. For flat roof horizontal conductor shall generally be provided along the outer periphery of the roof. The conductor shall be exposed to atmosphere. All metallic protections, vent pipes, railways etc. on or above the main surface of the roof shall be properly bonded to the air termination network.

DOWN CONDUCTOR:

Down conductors shall follow the most direct path possible connecting the horizontal air termination conductor and the earth termination i.e. the ground electrode avoiding sharp bends, up-turns and kinks. Joints shall as far as possible be avoided in down conductors.

JOINTS: The joints in the lightning protection system shall be avoided as far as possible. There shall be no joints in the down conductor below ground level. Where joints are necessary they shall be mechanically and electrically effective and shall be so made as to exclude moisture completely.



The joints may be soldered, riveted or bolted and mentioned in the schedule of work. With over-lapping joints the length of the overlap shall not be less than 50 mm for all types of conductor. Contact surface shall first be cleaned and then inhibited from oxidation with a suitable non-corrosive compound. Strips shall be tinned, soldered, welded or brazed and at least double riveted. Bolted joints shall not be used on test points or on bonds to existing metal. For rust protection the welded joints shall be treated with barium chromate. Welded surface shall then be painted with red lead and aluminium paint.

TESTING POINTS: Each down conductor shall be provided with a testing point in a position convenient for testing but inaccessible for interference. No connection, other than one direct to an earth electrode shall be made below a testing point.

EARTH TERMINATIONS: Each down conductor shall have an independent earth termination and arrangement of isolation for testing purposes. The earth termination shall be located as close as practicable to the down conductor. Inter connections with other termination of the conductor system and with other buried metal services and earth terminations shall be made with G.I. tape laid directly at an average depth of 700 mm below finished ground level for the purpose of equalizing the potential distribution in the ground.

EARTH ELECTRODE: Earth electrode shall be constructed and installed as specified in Part-B. The pipe/plate electrode shall be driven into the ground as close as practicable but outside the circumference of the structure.

FIXING OF CONDUCTOR: Unless otherwise mentioned in the Schedule of Quantities the wall shall be drilled and plugged with teak wood pins of not less than 50mm long by 25mm square inner and 19 mm square outer surface. The void shall be finished according to the nature of wall surface with cement plaster.

Conductors shall then be securely attached to the building to be protected by galvanized steel fasteners of 2mm thick which shall be substantial in construction and wood screws and approved by the Engineer-in-Charge.

EARTH RESISTANCE:

Properly made earth connections are essential for effective functioning of a lightning protection system and every effort shall be made to provide ample contact with the earth so that the earth resistance can be kept as low as possible. The whole of the lightning protection system shall have a combined resistance to earth not exceeding 1 ohm.

WORKMANSHIP AND INSTALLATION WORK

The workmanship shall be first class and all supply material and installation work shall be completed to the full satisfaction of the Engineer-in-Charge.

CONTRACTORS RATE TO INCLUDE

Apart from other factors mentioned elsewhere in this contract, the rates for the above shall include for the following: i: All labour, materials, tools and construction equipment required for proper execution of job ii: Scaffolding including erection and removal iii: Making good of all damaged civil work, if any



6.0 PARTICULAR TECHNICAL SPECIFICATION FOR ELECTRICAL EQUIPMENT

6.1 SCOPE This specification covers supply of materials, fabrication, erection, testing and commissioning of switch boards, Distribution boards, Meter board, Lighting equipment, Switches, socket outlets and miscellaneous items. Applicable provisions and conditions of contract shall govern the work under the section.

6.2 GENERAL The contractor shall have to submit manufacturer's Test Certificate for switchboards, switch fuse units, meters, fuse fittings, circuit breaker, isolating switches and other items as directed by the Engineer-in-Charge. After completion of such supply and installation work of the electrical equipment, if any defect in the material or workmanship is found by the Engineer-in-Charge, the contractor shall remove the same and supply better and approved materials at his own cost. All precaution against theft and fire shall also be taken by the contractor. The contractor shall provide complete supervisions for proper execution of the work.

6.3 MATERIALS All materials used in the work shall be of ISI marked wherever available, and of approved make and quality and in its absence conforming to the I.S. specification. For fabricated equipment, special care shall be taken to make the enclosed equipment proof against entry of creeping reptile, which may create electrical short circuits inside the live equipment.

L.T. MAIN DISTRIBUTION SWITCH BOARD /DIST. SWITCH BOARD

The 415 Volt main distribution switch board shall have incoming unit fed from L.V. side of transformer/ main distribution board.

STANDARDS

The equipment shall be designed to confirm to the requirements of I.S: 4237, I.S: 2147 and I.S: 375.

CONSTRUCTION

The main L.T. P.C.C board shall be as per BOQ. The incoming and outgoing functional units shall be arranged in multi-tier formation, to provide a compact switch board having a pleasant appearance. Each unit shall be accommodated in a separate compartment having gasket hinged door which shall be interlocked with the operating mechanism so as to prevent opening of the door when the switch is in the 'ON' position and also to prevent closing of the switch with the door not properly secured. The 'ON' and 'OFF' positions of the switch handle shall be distinctly indicated by proper marking. Modular construction shall be adopted to cater for different units with each cubicle having a busbar chamber and cable compartment. The maximum height of the devices on the panel shall not exceed 2000mm. Suitably engraved identification levels shall be provided on each unit. When switch board of floor or wall mounting type is specified instead of cubicle type with incoming and outgoing Fuse switch units or switch fuse units, the board shall comprise a suitable length of Busbar chamber. The board shall have provision for future extension. The floor stands or wall bracket shall have sufficient mechanical strength to carry the weight of the entire switch board. The height shall be such that maximum operating height of the top unit shall not exceed 1800 mm.

BUSBAR

The main horizontal busbar shall be air insulated and made of high conductivity, high strength aluminium alloy or electrolyte copper complying with the requirements of grade E 91 E of IS 5082. The current density in each busbar shall not exceed 160 Amp. per sq. cm. for copper of 125 amp. per sq. cm. for aluminium.



The main phase busbar shall have continuous current rating throughout the length of power control center and the neutral busbar shall have a continuous rating of at least 50% of the phase busbar. Large clearance and creepage distance shall be provided on the busbar system to minimise the possibility of a fault. The busbar and vertical risers horizontal connectors shall be fully insulated with PVC sleeve or tape to prevent accidental touch. The busbar including neutral and earth bar shall be short circuit tested for fault withstand of 60 KA RMS for one second as per IS:8623 for factory Built Assemblies. In no case, the rating of busbars shall be less than the Incoming Circuit Breaker or switch. Busbar should be supplied with insulating material such as Permali, Hylam, and support shall be sufficient close and robust and support should permit - sufficient movement for compensation of comparative stress in the event of short circuit.

FUSE SWITCH UNIT

The fuse switch units shall be of double break type suitable for load break duty, with quick make and break mechanism and front drive mechanism, generally conforming to IS:4064 -1978 having fully shrouded contacts. All switch contacts shall be self aligning, spring loaded, silver plated. The isolators shall be connected on the busbar side or incoming side and fuses on the load side. However, fully withdraw able carriage to facilitate quick fuse link replacement is preferred. The individual fuse switch units shall be either triple pole and neutral or single pole and neutral as specified with a front operating handle. The fuse links shall be non-deteriorating HRC type complying with IS:2208-1962 and having rupturing capacity of 80 KA at 415 Volts. The units which are to be installed separately should be totally enclosed fully shrouded sheet steel clad/cast steel casing.

INSTRUMENTS

The measuring instruments shall comply with IS:1248 in all respects. Moving iron, square, flush mounting type instruments shall be used for measuring A.C. Voltage and currents. The instruments shall normally be mounted on the hinged door of an all welded fabricated sheet steel housing of rigid construction to allow easy access to small wirings. Circuits shall be protected by H R C type fuse links complying with IS: 9224 (Part-II) -1979. The fuses shall be mounted near the tap-off point from the main connections so that a fault in the instrument wiring does not affect the main

supply. Small wiring shall be of 660 Volt grade single core flame retardant low smoke PVC insulated cable with copper conductor having minimum size 2.5 sq. mm. These shall be coloured coded for identification of circuits. The instruments shall be of approved make & acceptable to the Consultant/ Engineer-in-Charge.

CABLE TERMINATIONS

Separate cable compartment with doors having bolted cover plates shall be provided to facilitate cable termination to individual units. The design shall ensure generous availability of space for easy installation and maintenance of cabling and adequate safety for working in one vertical section without coming into accidental contact with live parts in an adjacent section. The compartments shall have detachable cover plate with gaskets at the bottom of the cable compartment unless specified otherwise. Cable glands and lugs of suitable sizes shall be provided for cable termination. Suitable arrangements shall be provided in the compartment for clamping of the cables.

EARTHING G.I.

copper flats shall run the entire length of the switch board. Two bolted type earthing terminals shall be provided in the board for connecting to the earth grid.



METAL TREATMENT

All steel materials used in the construction of the switch board shall undergo a rigorous rust proofing process comprising alkaline digressing, descaling in dilute Sulphuric acid, cold rinsing, recognized phosphate process. Passivating and drying with compressed air in dust free atmosphere. It shall then receive two coats of highly corrosion resistant enamel paint of approved shade.

DISTRIBUTION BOARD

The distribution board shall comply with IS: 2675-1983 and B.S. 214 in all respects. The distribution board shall be housed in a dust and vermin proof metallic enclosure fabricated from 2mm thick all welded sheet steel suitable for wall / column mounting and complete with a door of rigid construction fitted with dust protecting gasket, and robust fasteners. The enclosure shall have suitable provision for fixing of switch fuse units, fuse fittings and neutral bar on high grade rigid insulating support. The fuse fittings shall be connected by a tinned copper busbar. Each fuse bank shall be provided with a cable socket for the incoming cable. The socket shall be situated centrally and must be covered by an insulating shroud for safety. Phase separation barriers made out of arc resistant materials shall be provided between the fuse banks. All bare current carrying parts shall be protected with a bakelite sheet of 3.5 mm thick to prevent accidental contact. The distribution board of single phase and neutral type shall be fitted with an earth bar for termination of each continuity conductor of outgoing circuits.

In case of concealed system, the boxes are to be flushed with the wall and the cover shall be made from 5 mm thick opal acrylic sheet or 3 mm thick decorative white top bakelite Electrical switch board cover of Hylam make. The sheet steel parts shall undergo a rigorous rust proofing process comprising alkaline degreasing, descaling in dilute sulphuric acid, cold rinsing and a recognised phosphating process. The steel work shall then receive two coats of high corrosion resistant primer paint before final painting by application of synthetic enamel paint.

MINIATURE CIRCUIT BREAKER DISTRIBUTION BOARDS (MCBDB) SPN MCB DISTRIBUTION BOARDS (SPN MCBDB)

The SPN MCB Distribution Board (SPN MCBDB) shall be housed in rust protected sheet steel enclosure shall be designed to provide protection against ingress to IP42 of IS-2147. This shall also be provided with the add on acrylic door/ double door (Metallic) when specified. The MCB DB shall be supplied complete with tinned copper busbar of adequate rating and incorporating Isolator; MCB or equivalent RCCB as incomer. MCB's shall be mounted onto specially designed din channel. The special mounting channel shall permit easy removal - even of - MCB in the middle of the bank without disturbing other MCBs. The incomer phase shall accept 35 sq.mm cable while the neutral shall accept 16 sq.mm cables. The consumer unit shall have provision of 20 mm/ 25 mm knockouts at top and bottom and two 32mm/ 25 mm knockout on sides facilitates wiring space making for flexibility and convenience of wiring.

METER BOARD:

Unless otherwise mentioned in the schedule of quantities the Meter Board shall house a KWH meter in a dust and vermin proof metallic enclosure fabricated from 2 mm thick all welded sheet steel suitable for wall mounting. The door shall be secured by fasteners, enabling dust protecting gasket to be compressed easily. The kWh meter shall be of approved make and the same shall be mounted on a rigid insulating support. There must be a viewing aperture on the M.S. door covered with a 2mm thick clear acrylic sheet for easy meter



reading and it shall be possible to seal the enclosure against unauthorised opening. The sheet steel enclosure shall undergo rust proofing process and painting as specified in Part-B.

FUSE CUT OUTS:

The fuse cut outs shall be totally enclosed, metal clad suitably for mounting on flat vertical surface and shall be provided with a screwed top cover. It shall be possible to seal the enclosure against unauthorised opening.

LIGHTING EQUIPMENT:

The luminaries for fluorescent lamps shall be shop assembled, fully wired and suitable for 1 No. 4 ft. tube or 2 Nos. 4 ft. tubes as the case may be. The salient features of these luminaries are basic channels/ rails, 240-volt ballasts with copper winding wire, spring loaded bi-pin type lamp holders, glow type starters and condensers. Reflectors and/ or decorative covers shall be supplied as specified in the Schedule of Quantities.

The luminaries for incandescent lamps shall be as specified in the schedule of quantities and approved by the Engineer-in-Charge before the same is used. The incandescent Bulkhead type fittings shall be of cast aluminium alloy body, finished by application of synthetic enamelled silver grey paint outside, white insides, with front glass, wire guard, tropicalised gasket, B. C. Lamp holder and suitable for use with 100 Watt G.L.S. Lamp. The fittings shall have tapped 19mm E.T. for conduit entry. The ballasts for fluorescent tube shall conform to IS: 1534 & IS:1534(Part-I) 1977 and the same for high intensity discharge lamps shall conform to IS:6616-1982 and these shall have high grade synthetic enamelled copper winding wires, quality grade insulation materials, good quality low hysteresis losses electrical stampings, and complete unit shall have polyester filling. The ballasts shall be suitable for use on single phase 240 Volts 50 Hz. A.C. system and of approved make. The capacitors shall comply with IS: 1569-1976 and be of hermetically sealed type.

EXHAUST FANS:

The Exhaust fans shall conform to IS:2312-1967 and suitable for operation on 230/ 240 Volt single phase. 50 Hz. A.C. system. The fans shall be ring mounted type designed to give maximum air volume changes under free air flow conditions.

SWITCHES:

Light and fan switches shall be rated for 6 amp. 250 volts and of Piano-key type and suitable for flush mounting on sheet steel board with moulded bakelite cover (manufactured by switch manufacturer). The switches shall be of approved make & acceptable to the Engineer-in-Charge. The switches shall comply with relevant I.S.

SOCKET OUTLET AND PLUG:

These shall be of 3 pin types and of rating 6 amps (for light) and 16 amps (for power). Each socket outlet shall be complete with controlling switch and plug top. Protective fuse links shall be provided with 16 amps power socket outlet. The socket outlets shall have piano-key type switches of approved make and acceptable to the Engineer-in-Charge. The socket outlet and plug shall comply with the relevant I.S. specifications.



SWITCH BOXES:

Sheet metal (16 SWG) switch boxes/ connection boxes with 3 mm thick bakelite top cover flushed in wall by housing the box after cutting brick wall. Sheet metal boxes shall be treated against corrosion by passivation or other approved method.

MANUFACTURER'S DRAWING:

The successful tenderer shall submit for approval General arrangement and dimensioned drawings for Power and Lighting distribution switch board, Motor Control center, Bus-duct arrangement, Miniature circuit breaker distribution board, Distribution board, Interlocked Switch socket outlets, Clock switch control panel, T P Power Cable junction box and cable rack etc. as required in three sets before commencing manufacture.

WORKMANSHIP AND INSTALLATION WORK:

The workmanship shall be of good commercial quality and all supply materials and installation work shall be completed to the full satisfaction of the Engineer-in-Charge.

SUB STATION EQUIPMENT AND INSTALLATION WORK

All the substation equipment's and workman ship should be strictly conforming to CPWD specification – "General specifications for Electrical works, Part IV, Sub Station, 2013" along with all correction slips issued up to last date of submission of tender.

PORTABLE FIRE EXTINGUISHERS:

All the portable extinguishers shall be of freestanding type and shall be capable of discharging freely and completely in upright position. Each extinguisher shall have the instructions for operating the extinguisher on its body itself and shall be supplied with initial charge with accessories as required. Portable type extinguishers shall be provided with suitable clamps for mounting on walls or columns and shall be painted with durable enamel paint of fire red colour, conforming to relevant Indian standards or NFPA standard 10. Foam type extinguisher shall comprise of suitable thickness sheet steel body coated with leaded tin alloy internally and externally (by electrolytic disposition process), inner receptacle of lead coated brass, polished gun metal fittings with a locked handle. It shall conform to IS:10204. Carbon-di-oxide type extinguisher shall comprise of high-pressure steel cylinder body with wheel type valve, braided reinforced hose, non-conducting horns and accessories, wheeled trolley or mounting clamp, etc. It shall conform to IS:2878. Dry chemical extinguisher shall comprise of suitable thickness sheet steel body coated with leaded tin alloy internally and externally (by electrolytic deposition process), an inner container, a carbon-di-oxide gas cartridge, a plunger rod for carbon-di-oxide release, a high pressure hose, a nozzle, a nozzle holder, wall mounting brackets and other accessories. It shall confirm to IS:2171. The powder shall confirm to IS:4861 or IS:4308. Any other kind of portable fire appliances provided shall confirm to NFPA standard 10 and of approved make.