

NORTH SINAI DEVELOPMENT PROJECT

**CONVEYANCE SYSTEM OF
EL SHEIKH GABER EL SABBABH CANAL
MAIN POWER STATION**

TENDER DOCUMENTS

PART 1: INSTRUCTION TO TENDERER

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1-01 INTRODUCTION

The Rural Electrification Authority (R.E.A.) and agency of the ministry of electricity of the Arab Republic of Egypt, has underway a project for the Electrical Construction.

1-02 OBJECT OF TENDER

The contract for which these tender documents are issued involves supply of material equipment, articles as described in the attached technical Specifications and Bill of quantities and Prices.

1-03 TENDER DOCUMENTS

Each prospective Tenderer will receive a set of three (3) copies of the tender documents upon payment of US\$500 per set of (3) three copies and US\$200 for each additional copy.

1-04 APPLICATION FOR TENDER DOCUMENTS

Documents may be obtained from purchasing and contracting department by depositing the required payment in US\$ by a cross check to:

- General manager for Purchasing and contracting
Rural Electrification Authority
Ramses Street
Nasr City, Abbassia,
Cairo
Arab Republic of Egypt

1-05 INTERPRETATION OF DOCUMENTS, ADDENDA

R.E.A. will not communicate on any matter concerning any part of the Bidding Documents with any person prior to that person's purchase of the documents. If a bidder is in doubt as to the true meaning of any part of the bidding document or wants supplementary information, he should request such information in writing from R.E.A. at the above address in 1-04 not less than 30 days prior to the bids closing date.

Any interpretation of the bidding documents or supplementary information will be issued only by formal addenda to the bidding Documents. Each addendum issued will be sent to all holders of Bidding Documents. All addenda issued shall be acknowledged by recipients and will become part of Bidding Documents, no addendum will be issued later than 14 days of the date of the bid issuance. No responsibility will be taken by R.E.A. for any interpretation other than by addendum.

1-06 BIDDING DOCUMENTS CONFIDENTIAL

Any person/persons/partnership/firm/company/consortium/or cooperative society receiving Bidding

Documents shall, whether they submit a Bid or not to R.E.A. the details of the documents as private and confidential. No information contained in them shall be transmitted to any other person/persons/firm/company/consortium/or cooperative society other than in the normal course of preparing a Bid of carrying out the contract.

1-07 FORM OF TENDER AND METHOD OF BIDDING

Bids shall be prepared in English, all blanks in the various Bidding Documents shall be filled in ink, the form of Bidding signed by the Bidder of his properly authorized representative, and all pages of the Bid and Appendices initial by such duly authorized representative. No part of the Bidding Documents shall be detached or deleted. Three (3) copies of the complete Bidding Documents filled in identically, shall be submitted, one of which shall be marked "ORIGINAL" which shall prevail in case of differences and the other two shall be marked "COPIES".

The three copies shall be delivered at or sent to arrive not later than 12.00 noon local Cairo time of the closing date of _____ to the General Manager for purchasing and contracting:

Rural Electrification Authority
Ramses Street
Nasr City, Abbassia
Cairo
Arab Republic of Egypt

Bids shall be enclosed in double cover and if sent by mail should be registered. The inner cover shall be sealed and marked with the number, title of the bid and opening date shall be marked "TO BE OPENED ONLY AT PUBLIC OPENING". ALTERNATIVE Bids shall be enclosed in separate inner enclosures and shall be marked "ALTERNATIVE BID". Any bid received after the closing time will not be considered.

The R.E.A. at its discretion may refuse or accept any Bid upon which charges or dues are payable by receiver delivery point.

Bidder should submit their bids in two (2) separate sealed envelopes on the same day to R.E.A..

(2) Envelope No.1 Technical Proposal

Envelope No. 1 shall contain the following:

1. Post Bid qualification
2. The technical proposal as per tender specifications as supporting information.
3. A bank guarantee with an amount equivalent to L.E. 100,000 will be enclosed with the technical envelope in addition with a letter from the bank confirming that a provisional guarantee has been issued equal to the rest of 2% of the total sum price of the tender after excluding the a/m amount.
4. Duly signed legalized of the instructions and conditions of tendering.
5. Reference list for three years successful operation for similar substation with identical equipment duly signed according to our request.
6. Type test certificates.

(2) Envelope No.2 Price Proposal

Envelope No. 2 shall contain the following:

1. The price proposal, completed as specified in tender specifications and Terms of Payment.
2. The provisional deposit equivalent to the rest of 2% of the bid price according to item 1-09 after excluding the amount of L.E. 100,000.
3. The complete form of tender, duly and legalized.

TENDERES are reminded that:

a. TECHNICAL PROPOSAL

All tenders must be received prior to 12.00 noon / / “No Public Opening”

b. PRICE PROPOSAL

Prior to 12.00 noon / /

4. Public Opening (advised later) in the conference hall,

R.E.A. Ramses Street
Nasr City, Cairo

“TO BE OPENED AT PUBLIC OPENING”

There will not be a public opening of the Technical proposal for the tenders. Public opening of price proposal will be held at the R.E.A.’s address commencing at 12.00 noon of the date advised.

The prices should be firm and no escalation is acceptable. The total offered prices of the price proposal should be divided into two portions i.e., foreign portion, which should be in foreign currency and local portion in Egyptian pounds. The term “FOREIGN PORTION” means the expenditures in foreign currency and expenditures for goods and services supplied from the territory of any country other than the A.R.E. The term “LOCAL PORTION” means expenditures in the currency of the A.R.E. and expenditures for goods and services supplied from the territory of the A.R.E.

Bidders must maximize the local currency portion by marketing materials and equipment from local manufacturers particularly:

- 66 kV Bus Bar conductors
- Circuit Breakers and isolating switches
- Main and Auxiliary transformers
- Medium and low voltage switchgear
- Auxiliary equipment
- Cables

Taking into consideration that the Contractor has to guarantee these equipment. Tenders must be submitted with the various items separately price so far as required by the form of the schedule of

prices. Tenderes must also submit any other itemized list asked for in the tender specifications. The prices must be written without errors, in figures and in words. The articles of the schedule of prices should be read carefully by the Tendere before fixing their rates.

Should the Tendere fail to quote the rate and the total value of an item, R.E.A., without prejudice to its reserved right for excluding the Tender, will be entitled to exercise the right to consider that the Tendere has alR.E.A.dy accepted that the items for which the unit prices are not given would be given a unit price equal to the highest unit price for the same item, in all the other tenders, provided this is done only for the sake of comparison between his offer and the other offers on the other hand.

If this offer is accepted, the Tendere shall be considered as accepting without any objection to undergo the contract with R.E.A. on the basis that the unit price of the item for which he failed to mention its unit price, as equal to the least unit price for the same item in all submitted offers. Settlement between the Tender and R.E.A., as regards such items, will be effected on this basis without any increase.

1-08 SUBMISSION OF BIDS

Bidder should submit their bids in a way of filling in these Bid box or otherwise Bids submitted in any other way may be rejected.

1-09 BID BOND

Each Bid (price proposal) must be accompanied by a Bid Bond in the form of a certified check, Irrevocable letter of credit, or Bid Bond issued by a bank acceptable to R.E.A., endorsed by a first class bank in Egypt in the amount of two percent (2%) from the tender value with the same tender currency as shown in the form of Bidding in the following manner:

- An amount equivalent to L.E.100, 000 will be enclosed with the technical envelope.
- The rest of the 2% after excluding the equivalent of the amount L.E.100, 000 will be enclosed with the commercial envelope.

The Bid Bond is valid for a period of 120 days, any Bid received without proper guarantee will not be considered.

Bid Bond shall be in the form attached hereto, section (3) form of Bid Bond completed without erasure or amendment and signed by the bidder and his sureties. The Bid Bond of unsuccessful Bidders will be released and returned to them as soon as a successful bid is definitely nominated. The guarantee of the accepted Bid will be returned when he has provided the performance guarantee.

1-10 ALTERATION AND CLARIFICATION OF BID

Any Bidder may, without prejudice to his Bid, withdraw, modify, or correct his Bid after it has been delivered to R.E.A. provided such withdrawal, modification or correction is filed with R.E.A. in writing prior to the time set for opening of Bids, the tender as modified by such written communication will be considered as the Bid submitted by such Bidder. No Bidder will be allowed

to withdraw or alter his Bid after the Bids have been opened. R.E.A. may ask Bidder for a clarification of any part of his bid but any change suggested by the Bidder in the substance or price of his Bid will not be accepted.

1-11 MODIFICATION OF BIDDING DOCUMENTS

The equipment shall be designed to fulfill all technical and general conditions of the R.E.A. tender documents. Any deviations appearing during or after analysis should be corrected to comply with the R.E.A. requests.

The tender is not allowed to cancel any Article, or part thereof, of the terms of the tender or of the technical specifications or to make any modifications whatsoever.

If the Tendere wishes to insert certain stipulation in the terms of contract he should clearly state these in a special letter attached to his tender and reference to this letter should be made in the tender itself.

Modified or additional guarantees and specifications, as well as any other modifications received after opening of the tender at the fixed date and time referred to in Article 1.20 will not be considered.

1-12 COMMITMENT ON SIGNING FORM OF BIDDING

By signing the form of Bidding the Bidder admits and agrees that he has completely examined and studied all the various terms and conditions of contract and technical specifications and taken into account all matters that in any way affect his rates, prices or his risks and obligations under the contract.

Such signatures shall be considered as an undertaking on the part of the Bidder to execute the works and deliver them exactly in the manner stipulated in the terms, conditions and specifications of the contract Documents if his Bid is accepted.

1-13

(A) INFORMATION TO BE SUBMITTED WITH BID

Any tender submitted by a company must be accompanied by duly authenticated copies of the documents defining the constitution of the company, power of attorney and other relevant documents, and any tender submitted by a partnership of firms must be accompanied by duly authenticated extract(s) from partnership deed or other documents, so as to show by what persons in what manner contracts may be entered into by or on behalf of the company, partnership or firm and what persons are directly responsible for the due execution of such contract and can give valid receipts on behalf of the company, partnership or firm and the extent of their power and responsibility.

Signatures of persons allowed to sign on behalf of the company, partnership or, firm, must be given on the same authenticated extract(s) of the constitution of power of attorney.

Any Tender submitted by an agent should be accompanied by a duly authenticated power of attorney.

The said documents must be legalized by the local authorities at the place of issue, and if issued abroad they must be endorsed by the Egyptian Ministry of Foreign Affairs, i.e. Egyptian Embassy in the country of Tendere.

Any tender not containing these documents, or if such documents are incomplete or do not conform to the aforesaid forms, may, at the discretion of the R.E.A., be excluded from the adjudication. If the Tendere is an agent of a firm, partnership, society antonym etc. which has a residence abroad will be jointly responsible with this firm, partnership or society for the execution of this contract.

(B) TENDERES TO HAVE A REPRESENTATIVE AND CORRESPONDENCE IN EGYPT

Tenderes, unless residing in Egypt, must have a representative in Egypt and must give in their offers an address in Egypt, either at the consulate of Tendere or elsewhere (domicile d'election) at which notices may be served valid upon them. All notices shall be deemed to have arrived in due course of post unless the contrary is proved.

Any changes of address shall be notified in writing to the R.E.A. by the Tendere or Contractor and the R.E.A. shall not be bound to take note of any change of address unless it is so notified. If at any time he fails to maintain a representative or domicile in Egypt as aforesaid or such domicile be found, any notice or correspondence addressed to him by way of publication in the official journal of the Egyptian government shall be deemed to have been duly received by the Tendere or Contractor on the day of its publication.

1-14 EVIDENCE OF CAPABILITY

Formal evidence from the Bidders to prove their capability to supply the required material/equipment and their financial resources to carry out the contract successfully should be submitted together with the bid. Bids from parties who cannot show such capability may be rejected. Bidders shall submit with their Bid Evidence satisfactory to R.E.A. showing their experience in designing manufacturing and testing of materials/equipment similar in character, size and capacity to that called for by this Bid. They shall include information on organization and places to which they have supplied such similar material equipment.

They shall also furnish basic financial information including a copy of recent financial statement.

1-15 VALIDITY OF BIDS

The price proposal shall remain valid for 120 days from the date of opening of the price proposal envelope and during whole period will not be withdrawn or modified. However R.E.A. has the right to request extension of the validity period from the Bidder.

1-16 COST AND EXPENSES OF BIDDING

R.E.A. will not be responsible for or repay any costs, expenses or losses incurred by any Bidder in connection with preparation and submission of his Bid.

1-17 PRICING

Bid shall be submitted with all individual items fully prices on the schedule of prices to equal the total price entered in the form of Bidding. Prices shall be F.O.B. port of export and CIF Egyptian port for Equipment to be imported into Egypt or Ex-factory for Equipment to be manufactured in Egypt. The prices quoted shall be deemed to include all direct, indirect and ancillary charges and costs including, properly incurred by the Contractor in the execution of the work. R.E.A. will be under no obligation to the Contractor for and will not be liable to pay to the Contractor any additional sums other than as expressly provided for under the contract.

1-18 PAYMENT

Payments and settlements concerning the relative contract has to be effected into two portions the one foreign portion in the supplier's country currency and the other local portion in Egyptian Pounds without intermediary of any other currency.

The payment to the Contractor will be effected as follows.

1. Foreign portion:

- 20% down payment against down payment guarantee with the same amount and currency issued or endorsed by a first class bank in Egypt and acceptable to R.E.A.
- 80% according to financing proposal mentioned in art. 1-19.

2. Local portion: (in L.E.)

- 20% down payment against down payment guarantee with the same amount issued or endorsed by a first class bank in Egypt and acceptable to R.E.A..
- 80% will be paid directly by R.E.A.. in L.E. during three months from receiving the following detailed documents (in one original and 3 copies) by a check in favour of the Contractor at its account in an Egyptian bank.
- Commercial invoice
- Dispatch note
- Test certificate

3. Supervision of erection and guarantee technician

- 100% against presentation of monthly invoices with the countersigned and stamped working control sheet approved by R.E.A..

4. Training

- 100% after the execution of the training against the presentation of invoices.

1-19 FINANCING

(1) Foreign Portion

The Tenderes must submit their tenders with suppliers credit facilities with the best possible long term payment conditions, minimum five years with the minimum interest or effective agreements with ARE government.

Tenderes must state clearly the value of down payment (according to art. 1-18) the number of installments, the due date of first installment with respect either to every shipment or the last one and the way the installment and interest have to be paid, either by a bank guarantee issued from a first class bank in Egypt or drafts analyzed by any first class Egyptian Bank. Any tender financed through any effective loan will be preferably considered.

(2) Local Portion

This portion will be financed by R.E.A. and payable in L.E.

1-20

A. LATEST DATE FOR RECEPTION OF TENDER

Tenders will be received up to twelve O'clock on dates stated in art. 1-07 at the latest. Tendere must ensure that his tender is dispatched in such time as to allow ample margin foR.E.A.rly delivery or registered post as no tender received after the time fixed herein will be considered, whatsoever may be the cause of the delay.

Any tender, or modification of a tender, whether in excess or in deduction, sent by cable shall not be accepted even if received by the R.E.A. before the opening of the tender unless confirmed in writing by the Tendere or his accredited delegate before the opening of the tenders.

B. PERIOD DURING WHICH TENDER IS IRREVOCABLE

Tender shall be irrevocable for a period of four (4) months commencing from the date fixed for the latest reception of tenders, that it to say until _____.

The tender shall remain valid even after the expiration of the said period until withdrawn by the Tendere.

The validity of a tender shall terminate upon receipt by the R.E.A. of a notification of its withdrawal.

The R.E.A. reserves the right to accept any tender, or any part thereof at any time during the period of its validity, and the date of acceptance shall be the date of the official modification of the said acceptance to the address given in the tender.

C. OPENING OF TENDER (ENVELOPE 2: PRICE PROPOSAL)

Tenders will be opened in a public opening ceremony on the date specified in Article (1-07), prices will be R.E.A.d aloud. Tenders will be ranked according to price with the lowest and highest price list.

The Tendere ranked first will be notified that it tentatively has been selected for contract evaluation.

The R.E.A. will first examine all technical proposals to see if they meet the operating and performance requirements of the tender specifications.

If in the judgment of the R.E.A., any tender fails in any substantial respect to meet those requirements, no further consideration will be given to that tender.

The R.E.A. will then screen all technical aspects of the tender for _____ points, which in the judgment of the R.E.A. should be corrected or improved to provide goods or services satisfactory for the minister's purposes.

The R.E.A. may call in the Tendere and negotiate such changes in the firm's technical proposals. In addition the Tendere will be given an opportunity to give an oral technical presentation of his tender to R.E.A. representative.

When the above negotiations are concluded and the R.E.A. is satisfied that the technical proposals are adequate for the needs, any outstanding details which require attention will be resolved so that a contract can be signed.

The R.E.A. reserves the right to request a detailed cost analysis from a tentative award and to finally reject a proposal and to commence award discussions with the next lowest bidder, if in the R.E.A.'s judgment, as a result of its review of Tenderes detailed price analysis, the ministry concludes and so advises a tentative award in writing that its price is unrealistically low to successfully perform the finally agreed upon technical specifications of this contract in an economically rewarding manner. Failure to furnish the ministry with a detailed price analysis will be grounds for final rejection of a Tendere's proposal.

Tendere may attend with his tender is being opened or be represented by an accredited delegate and hear the prices as read out separately for the offers of the various tenders as opened.

1-21 TENDER SELECTION CRITERIA

The tenders will be selected to determine if each Tendere's tender is responsive. A responsive tender is one that complies with all the terms and conditions in the tender document without material modification.

A material modification is one which affects in any way the price, quality, scope, or completion date of the works, or which limits of tendere or any rights of the R.E.A. as any of the foregoing have been specified or defined in the tender document.

The following tender selection criteria will be utilized:

- Post bid qualification
- Submittal of the tender in compliance with these instructions to Tenderes.
- Submittal of the tender in compliance with general conditions without material modification.
- Submittal of the tender in compliance with technical specification without material modification.
- Evaluation of tender to determine if the proposed equipment are of proven design. Tendere's data submitted with the tender will be evaluated on the basis that system which has been in successful commercial operation for a period of at least five (5) years in at least five (5) separate location.
- Evaluation of Tendere's past experience on the basis that Tendere has furnished and erected equipment similar size and complexity and which has been in successful operation for at least five (5) years in at least five (5) separate location/
- Evaluation of Tendere's proposed sub Contractor's experience from data submitted.
- Technical analysis of the tender to determine if the tender masts or exceeds the requirements set forth in the specifications.

1-22 EVALUATION CRITERIA OF TENDERS

Tenders meeting the tender selection criteria will be evaluated on the basis of the following to determine the tender with the lowest evaluated cost:

- All tender prices will be adjusted to correct obvious arithmetical errors.
- Bidders shall state in their Bid the CIF (port of entry) and FOB price for imported goods, or the ex-factory price of domestically manufactured goods.
- Customs duties and other import taxes on imported goods and sales and similar taxes on domestically supplied goods shall be excluded.
- In addition to the Bid price, other relevant factors such as the time of delivery, operating costs where relevant, the efficiency or compatibility of the equipment, and the availability of service and spare parts may be taken in to consideration in determining the lowest evaluated Bid. Response to the bidding documents and evidence capability may be taken seriously price adjustment provision, if any, applying to the period of execution of the contract will not be taken into account in the evaluation.
- All tender prices will be valued in terms of Egyptian pounds (L.E.) using the rates of exchange in such evaluations as the rolling rates published by the Central Bank of Egypt applicable to similar transactions on the day the Tenders are handed. Should there be a change in the value of the currencies before the award is made, the exchange rates prevailing at the time of the modification of award will be used.
- For the purpose of comparison of bids, the transformer losses will be evaluated in accordance with the following article.

1-23 EVALUATION OF TRANSFORMER LOSSES

The transformers shall be designed for minimum losses when comparing between different tenders, the present worth value of the capitalized cost of losses in the transformers shall be added according to the following formula.

$$PW = K \times 8760 \times C (W_i + (LSF)(P)^2 W_{cu}) \text{ L.E.}$$

PW = Present worth (L.E.) of annual capitalized cost of losses at 16.25% rate of interest, over 20 years.

K = Present worth factor (16.25% interest, 20 years) = 5.85355

C = Cost KWH 0.162 L.E. (liable to be adjusted at the time of tenders evaluation)

W_{cu} = Copper losses in KW at full load (25 MVA), 95°C

W_i = Iron losses in KW at normal voltage and main tapping

P = Peak load in P.U. = 1.1 for 66/11 KV

LSF = Loss factor for the load = 0.4

1-24 POST BID QUALIFICATION

The R.E.A. reserves the right to post – qualify the Tendere offering the tender with the lowest evaluated cost as determined by the tender evaluation criteria.

The post – qualification of tender will determine if the lowest evaluated Tendere is also a responsible Tender and has the capability and financial resources to execute the works. The post Bid-qualification will be based on the following:

- Company description
- Company organization chart
- Reference list of similar substations with identical equipment built in the last 5 years
- Available manpower
- Qualification of personnel, with C.V. of proposed project manager
- Certified balance sheet
- Annual turn over of company, last five years.

1-25 AWARD OF CONTRACTS

As its option R.E.A. may award contracts for goods to be imported into Egypt on the basis of either CIF Egyptian port or FOB port of export.

R.E.A. may award a single contract for the substations or may award one or more contract for individual groups of substations as may be in the best interest of R.E.A..

In order to best utilize available funds, R.E.A. reserves the right to increase or decrease the quantity of any or all items as shown in the Bill of Quantities and prices by up to 25 percent after receipt of Bids and prior to award of contracts and the prices as tendered shall be valid for such revised quantities.

The successful Bidder or Bidders (if any) will be notified in writing by a letter of intent dispatched and dated prior to the expiration date of Bid validity or any agreed extension thereto. The successful Bidder shall be, unless specified otherwise in the documents, considered as Contractor from fourteen (14) days after the date of dispatch of the letter of intent. The Contractor shall, when called upon to do so, execute the Form of Agreement, and his approved surety shall provide the performance bond

in the amount of ten (10%) percent of the Contractor price endorsed by a first class bank in Egypt.

In the event that a successful Bidder fail to execute the contract Agreement or provide a performance Guarantee with acceptable surety, the amount of his bid Guarantee shall become forfeit to the R.E.A. to defray its expenses incurred as a result of such failure & damages consequent upon delay to the work.

1-26 TAXES DUES

-All dues, such as taxes, sale taxes, duties, customs, as well as bank charges in connection with the contract levied in ARE except what will be mentioned below, are to be paid by R.E.A.

-All such dues levied in the Contractor's country or in the countries of sub suppliers are to be paid by the Contractor.

-All charges related to the opening of L/C (if needed) inside & outside Egypt will be borne by the Contractor.

-All stamp duties related to the contract will be borne by the Contractor.

-The charges of issuing and endorsement of letters of guarantee for advance payment and good performance are to be paid by the Contractor.

-All dues such as taxes, duties, customs, and sale taxes levied in ARE in connection with either local manufactured or local assembled equipment to be paid by the Contractor.

-The income taxes for the personnel of supervision of erection and guarantee technician are to be paid by the Contractor on the basis of the income taxable in Egypt.

-Each party to the contract shall assist in settling the questions arising in its country between the competent authorities and the other party with regard to the application this item.

1-27 PREFERENCE FOR EGYPTIAN MANUFACTURED GOODS

Tender offering deliveries manufactured in Egypt will be considered lowest evaluated deliveries if the increase of its value does not exceed 15% of the value of the lowest offered deliveries foreign manufactured.

1-28 ACCEPTANCE OF TENDER

After the opening and examination of tenders, the R.E.A. will select a Tender and will require him to provide a full and complete elaboration of his tender including technical details of all items of plant and services, design and calculations and any other information necessary to satisfy the R.E.A. of the competence of the Tendere. The cost of providing this further information will be considered to be covered by the tender price.

The R.E.A. reserves the right to reject any or all tenders, or modify or withdraw this invitation to tender at any time and to enlarge or reduce the scope of works before or after accepting the tender.

1-29 LANGUAGE OF TENDER

The Tendere's proposal, including all supplemental data, shall be in the English language.

1-30 FEES PAID TO AGENTS

The Tendere shall indicate in his offered price in envelope No. "Form of Tender" the total fee in foreign currency and local currency paid for commission to a commercial agent in case of accepting the Tender. Tendere shall indicate the name and address of the person(s) who are entitled to such payment.

Fees to agents must be deposited to the agents account in one of the operative banks in the Arab Republic of Egypt which is subject to the Central Bank Supervision in the currency (ies) which the parties have agreed upon.

1-31 PERFORMANCE GUARANTEE

Within a period of not more than ten calendar days from the receipt of the Notice of Award the successful Tendere shall deliver to R.E.A. an unconditional performance guarantee in the amount of ten (10%) percent of the total contract price (foreign currency and local currency) issued or endorsed by a first class bank in Egypt and acceptable to R.E.A..

This performance guarantee must be in the same currency as the tender.

NORTH SINAI DEVELOPMENT PROJECT

**CONVEYANCE SYSTEM OF
EL SHEIKH GABER EL SABBABH CANAL
MAIN POWER STATION**

TENDER DOCUMENTS

PART 2: FORMS OF TENDER AND APPENDICES

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FORM OF TENDER AND APPENDICES FORM OF TENDER

to : **Rural Electrification Authority**
Ramses Street Extension
Nasr City , Abbassia
Cairo , Arab Republic of Egypt

Gentlemen :

1. Having examined the tender documents consisting of the following.

- Invitation to tender
- Instruction to tenderers
- Form of tender and Appliances
- Form of Qualification
- Form of Bid Bond
- General Conditions
- Special Conditions
- Form of Delivery Schedule
- Technical Specification
- Drawings
- Form of down payment and Performance Guarantee
- Guarantee Tables
- Schedule of Prices
- Addenda

We the undersigned offer to design, manufacture, test and deliver C.I.F. Egyptian Port or F.O.B. Foreign Port to the Arab Republic of Egypt, (cross out parts not applicable), the whole of the material / equipment as attached to invitation to tender No. for a total sum of

C.I.F. _____

F.O.B. _____

as determined in the schedule of prices to this tender.

2. To insure our compliance with the terms of this tender documents we enclose herewith a tender guarantee in the form of a certified check, irrevocable letter of credit.

Tender bond (cross out these not applicable) in the amount of two percent (2 %) of our tender price to remain in effect for the period of tender validity.

3. We agree that this tender shall remain valid for a period of one hundred twenty (120) days from the date of tender opening during which it may be accepted in the entirety by REA.

4. We understand that REA is not obligated to accept the lowest or any tender they may receive.

5. If our tender is accepted in its entirety during the period of tender validity will enter into a contract with REA and provide a performance Guarantee to you in accordance with the provisions of the documents.

6. If our tender is accepted by REA we undertake to commence the design manufacture, and delivery the materials / equipment in accordance with the delivery schedule.

Witness

Full Name Tender (Printed)

By _____

Signature

Date :

PART 2: FORM OF TENDER AND APPENDICES

Appendix A – Special Stipulations

Amount of Tender Guarantee	2 %
Amount of Performance Guarantee	10 %
Period of Guarantee	18 months from date of installation, or 24 months from the date of the last shipment
Liquidated Damages	1.0 % of value of delayed material per week or part thereof of delay but not exceeding 10 % of the value of lot.

APPENDIX B: BILL OF QUANTITIES AND PRICES

**Conveyance System of El Sheikh Gaber El Sabbah Canal
Main Power Substation (for El Salaam No.7 P.S.)
(Package-4)**

SUMMARY AND TOTAL

Pay Item No.	Item of Works	Local Currency Amount Egyptian Pound	Foreign Currency Amount
SE-0400	Main Power Substation (Electrical Works)		
WB-0400	Main Power Substation (Building Works)		
AB-0400	Administration (Building Works)		
Total			

**Conveyance System of El Sheikh Gaber El Sabbah Canal
Main Power Substation (for El Salaam No.7 P.S.)
Bill of Quantities**

Pay Item	Description	Unit	Quantity	Local Currency Egyptian Pound		Foreign Currency	
				Unit Price	Amount	Unit Price	Amount
SE-0400	Main Power Substation (Electrical Works)						
SE-0401	Power Transformer: Outdoor type 66/11 kV, 50 Hz, 3-Phase, 25 MVA	unit	4				
SE-0402	Voltage Detector Rated voltage: 66 kV, 3-Phase, 50 Hz	unit	2				
SE-0403	Earthing switch: 72.5 kV, 1250 A 50 Hz, 3 - pole, Air disconnect Manual operation, indoor type	unit	2				
SE-0404	66 kV Disconnect: 72.5 kV, 1250 A 50 Hz, 3 - pole, Air disconnect Electric Motor driven type	unit	4				
SE-0405	66 kV Disconnect Electric Motor driven type 1000A DS-P1, DS-P2, DS-P3 and DS-P4	unit	4				
SE-0406	66 kV Disconnect Manual operation type 800A	unit	2				
SE-0407	66 kV Circuit Breaker (Indoor type) Gas Insulated Circuit Breaker 3-Phase, 50 Hz, 72.5 kV, 25 kA, 1250 A Hydraulic or Electric motor operation type	unit	2				
SE-0408	Ditto, but rating current: 800 A	unit	4				
SE-0409	66 kV Current transformer (Indoor type) Rated as 66 kV, 3-Phase, 50 Hz, 1250/5A Rated Burden: 60 VA	unit	2				

Bill of Quantities

Pay Item	Description	Unit	Quantity	Local Currency Egyptian Pound		Foreign Currency	
				Unit Price	Amount	Unit Price	Amount
SE-0410	Ditto, but Primary current: 400 A	unit	4				
SE-0411	66kV Capacitance Potential Device 66 kV/110 V	unit	3				
SE-0412	66 kV Lightning Arrestor: Serge gap type 84 kV, 10,000 A with operation time counter	unit	2				
SE-0413	Cubicle type 11kV Switchgears: IP 55 Vertical self standing type, made of sheet steel (See DWG. SSE-404) Neutral Grounding Panel Grounding current transformer, lightning arrestor and neutral line disconnecting switch	unit	4				
SE-0414	Ditto, but 11 kV Cable termination Panel Terminal for 11 kV XLPE 400mm ² x 9	unit	4				
SE-0415	Ditto, but VCB Panel VCB 12 kV, 2000 A, 40 kA, drawable type	unit	4				
SE-0416	Ditto, but 11 kV Feeder Panel VCB 12 kV, 3000 A, 40 kA, drawable type GCT and Grounding over current relay	unit	2				
SE-0417	Ditto, but Lightning Arrestor Panel VCB 12 kV, 1000 A, 40 kA, drawable type and Lightning arrestor	unit	2				
SE-0418	Ditto, but 11 kV Feeder Panel VCB 12 kV, 400A, 40 kA, drawable type	unit	2				
SE-0419	Ditto, but Bus-Tie Panel VCB 12 kV, 3000 A, 40 kA, drawable type and CT x 2	unit	1				

Bill of Quantities

<u>Pay Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Local Currency Egyptian Pound</u>		<u>Foreign Currency</u>	
				<u>Unit Price</u>	<u>Amount</u>	<u>Unit Price</u>	<u>Amount</u>
SE-0420	Station Transformer Panel Indoor cubicle, vertical self standing, IP 55 (See DWG. SSE-404) Transformer Panel (Dry type transformer) 11 kV/380-220 V, 500 kVA	unit	2				
SE-0421	Ditto, but Transformer feeder Panel VCB: 12.5 kV, 3-Pole, 600 A, 40 kA Drawable, manual operation type	unit	2				
SE-0422	Ditto, but Low Voltage Distribution Panel Main MCCB: 3-Pole+N 800A x 2 Bus-Tie MCCB: 3-Pole +N 800 A Branch MCCB: 3-Pole+N 100A x 10	unit	1				
SE-0423	Relay Panel: Indoor vertical stand type, IP 55	unit	1				
SE-0424	66 kV Substation Control Board Consist of remote operation switches, status indication lamps, alarm indication and mimic diagram.	unit	1				
SE-0425	DC Power Unit: Metal clad type, IP 55 Battery: Alkaline type 220V, 500Ah Charger: Thyristor, AC -Phase, 380V, 50A DC Circuit Breaker: 2-Pole, 100A x 2 and 2-Pole 50A x 8	unit	1				
SE-0426	Cubicle type 11 kV VCB Panel: IP 55 Vertical self standing, unit enclosed type Installed in No. 7 Pumping Station Power cable lead-in Panel For 11 kV XLPE '1C-500mm2 x 4) x 3	unit	2				

Bill of Quantities

Pay Item	Description	Unit	Quantity	Local Currency Egyptian Pound		Foreign Currency	
				Unit Price	Amount	Unit Price	Amount
SE-0427	Ditto, but Power receiving panel Draw out type VCB: 12 kV, 3000 A,	unit	2				
SE-0428	Ditto, but PT panel 2-PTs: 11kV/110V, 50VA	unit	2				
SE-0429	66kV aerial busbars (AC1) Heat resistance aluminum alloy stranded wire, Sectional area: 1600mm ²	m	240				
SE-0430	Aerial earthing conductor Hard drawn copper stranded conductor 5mm diameter.	m	40				
SE-0431	66 kV aerial bus bar (AC2) Aluminum Pipe 60 mm diameter	m	200				
SE-0432	66 kV aerial bus bar (AC3) Aluminum Pipe 50 mm diameter	m	300				
SE-0433	Insulators/Bushing Consist of insulator, accessories and fittings 4-Couple of 250 mm diameter. Disk type Insulator	pc.	12				
SE-0434	Ditto, but Line post insulator For 66kV busbars, 190 mm diameter. 740 mm length	pc.	18				
SE-0435	Wall through Bushing (WB1) 66 kV, 2000 A	pc.	6				
SE-0436	Wall through Bushing (WB2) 66 kV, 800 A	pc.	12				
SE-0437	11 kV Feeder cable 11 kV XLPE 1C-400 mm ²	m	470				
SE-0438	Control and Operation cables include with terminals, accessories and fittings Copper tape shielding type SCC 4C-10 mm ²	m	875				

Bill of Quantities

Pay Item	Description	Unit	Quantity	Local Currency Egyptian Pound		Foreign Currency	
				Unit Price	Amount	Unit Price	Amount
SE-0439	Ditto, but SCC 4C-6 mm2	m	385				
SE-0440	Ditto, but SCC-4C-4 mm2	m	2030				
SE-0441	Ditto, but SCC-3C-4 mm2	m	1190				
SE-0442	Underground grounding grid wire Bare stranded copper, 120 mm2	m	1000				
SE-0443	Indoor grounding conductor Bare stranded copper, 70 mm2	m	80				
SE-0444	Grounding rod Copper rod: 14mm diameter, 3m length	unit	34				
SE-0445	Grounding plate Copper plate: 900mm x 900mm, thickness: more than 1.5mm	unit	11				
SE-0446	Grounding conductor in Cable pit Bare stranded copper, 70 mm2	m	330				
SE-0447	Grounding for structure/foundations Bare stranded copper, 120 mm2	unit	300				
SE-0448	Underground feeder cables For No. 7 Pumping Station include excavation and backfilling Consist of cables, connectors, fittings, conduits, supporters, accessories and etc. as required. 11 kV XLPE 1-Core, 500 mm2	m	6,000				
SE-0449	Manhole: inside dimension 2 x 2 x 2.5 m Made of reinforced concrete include with cable support brackets, steps, drainage system and heavy weight withstand type cast iron manhole cover	set	6				

Bill of Quantities

Pay Item	Description	Unit	Quantity	Local Currency Egyptian Pound		Foreign Currency	
				Unit Price	Amount	Unit Price	Amount
SE-0450	Cable trench: Width: 1.5 m, Depth: 0.6 m and Width: 1 m, Depth: 0.4 m include excavation and backfilling with sheet steel cover	m	160				
SE-0400	Total						

**Conveyance System of El Sheikh Gaber El Sabbah Canal
Main Power Substation (for El Salaam No.7 P.S.)
Bill of Quantities**

Pay Item	Description	Unit	Quantity	Local Currency Egyptian Pound		Foreign Currency	
				Unit Price	Amount	Unit Price	Amount
WB-0400	Main Power Substation (Building Works)						
WB-0401	Excavation and disposal for building	Cu.m	2,017				
WB-0402	Backfill including supply of material	Cu.m	1,900				
WB-0403	Final grading	Sq.m	7,520				
WB-0404	Lean concrete 75 mm thick.	Cu.m	137				
WB-0405	Reinforced concrete (Fcu=275kg/cm2) for foundation and slab on grade, including reinforcing deformed bars (Grade 36/52) at least 120 kg/m3 and form works, Sulfate Resistant Portland Cement (Type-V)						
WB-0406	Reinforced concrete (Fcu=300kg/cm2) for grade beams, columns, walls beams and slabs, including reinforcing deformed bars (Grade 36/52) at least 130 kg/m3 and form works, Ordinary Portland Cement (Type-I)	Cu.m	360				
WB-0407	Masonry brick wall works (cement bricks) including reinforced concrete lintel and bond beams where necessary, t=240mm	Cu.m	482				
WB-0408	Cement plastering, t=20mm	Sq.m	4,160				
WB-0409	Steel ladders w/painting	Kg	200				
WB-0410	Checkered plates, t=4.5mm	Kg	7,144				
WB-0411	Wire mesh fencing, complete	Sq.m	59				

Bill of Quantities

Pay Item	Description	Unit	Quantity	Local Currency Egyptian Pound		Foreign Currency	
				Unit Price	Amount	Unit Price	Amount
WB-0412	Wire mesh doors, complete	Sq.m	9				
WB-0413	Bituminous waterproofing membrane with insulation 500mm, covered with cement mortar 70 mm and cement tiles.	Sq.m	1,425				
WB-0414	Paint on plastered walls, exterior	Sq.m	2,080				
WB-0415	Paint on plastered walls, interior	Sq.m	2,080				
WB-0416	Paint on ceiling	Sq.m	1,344				
WB-0417	Steel door, including painting	Kg	100				
WB-0418	Steel main access door, including glazing and painting	Kg	1,020				
WB-0419	Aluminum window	Sq.m	130				
WB-0420	Fixed aluminum louver	Sq.m	6				
WB-0421	Separate cement floor finishing, with hardener including base (H=100mm)	Sq.m	1,344				
WB-0422	Lighting fixture: Ceiling surface mounted open type IP 51, for fluorescent lamp 32 watt -1 Type: B - FL321	set	36				
WB-0423	Ditto, but for fluorescent lamp 32 watt - 2 Type: B-FL322	set	18				
WB-0424	Lighting fixture: High ceiling mounted type with metallic reflector IP 51, for 400 watt high-pressure sodium lamp Type: D-HPS400	set	15				
WB-0425	Lighting fixture: Wall mounted type with plastic cover IP 65, for fluorescent lamp 32 watt -1 Type: G - FL321	set	3				

Bill of Quantities

Pay Item	Description	Unit	Quantity	Local Currency Egyptian Pound		Foreign Currency	
				Unit Price	Amount	Unit Price	Amount
WB-0426	Emergency lighting fixture: Ceiling or wall mounted open type IP 51, for incandescent lamp 100 watt powered by DC 100 V, Type: H-IL100	set	26				
WB-0427	Socket outlet: Wall surface flush mounted type AC Single Phase 220 V, 2-Pole with earth pole 15 amp double outlet	set	31				
WB-0428	Ditto, but 30 amp single outlet	set	7				
WB-0429	Socket outlet: Wall surface mounted type AC 3-Phase 380 V, 3-Pole with earth pole 30 amp single outlet	set	5				
WB-0430	Lighting switch: Wall surface flush mounted type, one way switch, AC 250 V, 10 amp	set	6				
WB-0431	Ditto, but remote control switch for magnetic contactor installed in distribution board	set	3				
WB-0432	Distribution board: Wall surface mounted metallic cabinet type DB-SS1	set	1				
WB-0433	Ditto, but DB-SS2	set	1				
WB-0434	Lighting main feeder cable from Station Transformer Panel to DB-SS1 600V XLPE 3C+N 25 mm ²	m	20				
WB-0435	Ditto, but to DB-SS2 600V XLPE 3C+N 35 mm ²	m	40				
WB-0436	Wiring for lighting system, consist of PVC wires of 4 mm ² , steel conduit 20 mm, conduit accessories, cable connections, outlet boxes, mounting fittings and necessary devices.	L.S.	1				
WB-0437	Wiring for socket outlet system, consist of PVC wires of 4 mm ² , steel conduit 20 mm, conduit accessories, cable connections, outlet boxes, mounting fittings and necessary devices.	L.S.	1				

Bill of Quantities

Pay Item	Description	Unit	Quantity	Local Currency Egyptian Pound		Foreign Currency	
				Unit Price	Amount	Unit Price	Amount
WB-0438	Grounding conductors for distribution board, lighting fixtures and socket outlets	L.S.	1				
WB-0439	Ventilation, axial flow type supply fan, 600 mm dia. x 250 mm x 2.2kw, with 8 Nos. SAH-HS 750 x 200 34CMM	No.	1				
WB-0440	Roof water down pipes, cast iron diam. 150 mm	m	34				
WB-0441	Portable fire extinguishers	set	18				
WB-0442	Lightning Protection	L.S.	1				
WB-0400	Total						

**Conveyance System of E.L.S.heikh Gaber El Sabbah Canal
Main Power Substation (for El Salaam No.7 P.S.)
Bill of Quantities**

Pay Item	Description	Unit	Quantity	Local Currency Egyptian Pound		Foreign Currency	
				Unit Price	Amount	Unit Price	Amount
AB-0400	Administration (Building Works)						
AB-0401	Excavation and disposal for building	Cu.m	1,135				
AB-0402	Backfill including supply of material	Cu.m	1,053				
AB-0403	Lean concrete 75 mm thick.	Cu.m	18				
AB-0404	Reinforced concrete (Fcu=275kg/cm2) for foundation and slab on grade, including reinforcing deformed bars (Grade 36/52) at least 120kg/m3 and form works, Sulfate Resistant Portland Cement (Type-V)						
AB-0405	Reinforced concrete (Fcu=300kg/cm2) for grade beams, columns, walls beams and slabs, including reinforcing deformed bars (Grade 36/52) at least 130kg/m3 and form works, Ordinary Portland Cement (Type-I)	Cu.m	144				
AB-0406	Cinder concrete, using light weight aggregates	Cu.m	5.4				
AB-0407	Masonry brick wall works (cement bricks) including reinforced concrete lintel and bond beams where necessary, t=240mm	Cu.m	234				
AB-0408	Masonry brick wall works (lime sand bricks) including reinforced concrete lintel and bond beam where necessary, t=250mm	Cu.m	235				
AB-0409	Cement plastering, t=20mm	Sq.m	1,960				

Bill of Quantities

Pay Item	Description	Unit	Quantity	Local Currency Egyptian Pound		Foreign Currency	
				Unit Price	Amount	Unit Price	Amount
AB-0411	Checked plates, t=4.5mm	Kg	987				
AB-0412	Bituminous waterproofing membrane with insulation 500mm, covered with cement mortar 70 mm and cement tiles.	Sq.m	625				
AB-0413	Paint on plastered walls, exterior	Sq.m	413				
AB-0414	Paint on plastered walls, interior	Sq.m	1,133				
AB-0415	Paint on ceiling	Sq.m	409				
AB-0416	Steel door, including painting	Kg	700				
AB-0417	Steel door, with glazing, including painting	Kg	300				
AB-0418	Aluminum window	Sq.m	36				
AB-0419	Wooden door, including painting	Sq.m	16				
AB-0420	Mirror, W60cm x H 75cm	set	5				
AB-0421	Separate cement floor finishing, with hardener including base (H=100mm)	Sq.m	256				
AB-0422	Ceramic floor tiles, 150 x 150 x 10 mm, including cement mortar screeding for adjustment	Sq.m	39				
AB-0423	Ceramic wall tiles, 200 x 200 x 6 mm and skirting (H=100)	Sq.m	131				
AB-0424	Terrazzo floor tiles, 250 x 250 x 25 mm and skirting (H=100) including cement mortar screeding for adjustment	Sq.m	281				
AB-0425	Suspended ceiling, acoustical types	Sq.m	168				
AB-0426	Kitchen unit for pantry	L.S.	1				

Bill of Quantities

Pay Item	Description	Unit	Quantity	Local Currency Egyptian Pound		Foreign Currency	
				Unit Price	Amount	Unit Price	Amount
AB-0427	Lighting fixture: Ceiling surface mounted type with metallic low brightness louver IP 51, for fluorescent lamp 32 watt -2 Type: A-FL322	set	20				
AB-0428	Lighting fixture: Ceiling surface mounted open type IP 51, for fluorescent lamp 32 watt -3 Type: B - FL321	set	15				
AB-0429	Ditto, but for fluorescent lamp 32 watt - 2 Type: B-FL322	set	35				
AB-0430	Lighting fixture: Pole top mounted type area lighting fixture IP65, for 125 watt sodium lamp Type: F-SON125	set	50				
AB-0431	Emergency lighting fixture: Ceiling or wall mounted open type IP 51, for incandescent lamp 100 watt powered by DC 100 V, Type: H-IL100	set	27				
AB-0432	Socket outlet: Wall surface flush mounted type AC Single Phase 220 V, 2-Pole with earth pole 15 amp double outlet	set	33				
AB-0433	Ditto, but 30 amp single outlet	set	4				
AB-0434	Socket outlet: Wall surface mounted type AC 3-Phase 380 V, 3-Pole with earth pole 30 amp single outlet	set	2				
AB-0435	Lighting switch: Wall surface flush mounted type, switch, AC 250 V, 10 amp	set	13				
AB-0436	Lighting switch, Wall surface flush mounted type, three way switch AC 250 V, 10 amp	set	2				
AB-0437	Distribution board: Wall surface mounted metallic cabinet type DB-SS3	set	1				
AB-0438	Exterior lighting control panel: Wall surface mounted metallic cabinet type ELC	set	1				

Bill of Quantities

Pay Item	Description	Unit	Quantity	Local Currency Egyptian Pound		Foreign Currency	
				Unit Price	Amount	Unit Price	Amount
AB-0439	Lighting main feeder cable from Station Transformer Panel to DB-SS1 600V XLPE 3C+N 25 mm ²	m	75				
AB-0440	Wiring for lighting system, consist of PVC wires of 4 mm ² , steel conduit 20 mm, conduit accessories, cable connections, outlet boxes, mounting fittings and necessary devices.	L.S.	1				
AB-0441	Wiring for socket outlet system, consist of PVC wires of 4 mm ² , steel conduit 20 mm, conduit accessories, cable connections, outlet boxes, mounting fittings and necessary devices.	L.S.	1				
AB-0442	Wiring for exterior lighting system, consist of 600 V XLPE 4c-16 mm ² , 3C-16 mm ² or 2C-8 mm ² in plastic conduit 30 mm	L.S.	1				
AB-0443	Grounding conductors for distribution board, lighting fixtures and socket outlets	L.S.	1				
AB-0444	Ventilation, wall mounted exhaust fan, 250 mm dia. x 18CMM x 25W	No.	2				
AB-0445	Ventilation, wall mounted exhaust fan, 300 mm dia. x 28CMM x 50W	No.	1				
AB-0446	Ventilation, wall mounted exhaust fan, 400 mm dia. x 82CMM x 0.4KW	No.	1				
AB-0447	Ventilation, O.A. (outside air) supply fan, 550 mm dia. x 185 CMM x 2.5KW with SAR 750 x 200 34CMM (6 Nos.)	No.	1				

Bill of Quantities

Pay Item	Description	Unit	Quantity	Local Currency Egyptian Pound		Foreign Currency	
				Unit Price	Amount	Unit Price	Amount
AB-0448	Air conditioners, split type, wall mounted, cooling cap. 4KW	No.	3				
AB-0449	Air conditioners, split type, ceiling suspended, cooling cap. 12KW	No.	2				
AB-0450	Air conditioners, split type, cooling cap. 10KW	No.	1				
AB-0451	Roof water down pipes, cast iron diam. 150 mm	m	18				
AB-0452	Water closet, including flush valves	set	4				
AB-0453	Wall urinals, including flush valves	set	3				
AB-0454	Lavatories	set	5				
AB-0455	Service sink	set	1				
AB-0456	Floor drains 50 mm dia. Including trap as specified.	set	9				
AB-0457	Water supply system including piping works, elevated water tank, isolation valves and all fittings necessary to complete the works as specified and defined on the drawing.						
AB-0458	Drainage system including piping works, septic tank, evaporation pit, manholes and all fittings necessary to complete the works as specified and defined on the drawing.	L.S.	1				
AB-0459	Portable fire extinguishers	set	10				
AB-0460	Lightning Protection	L.S.	1				
AB-0400	Total						

PART 2: FORM OF TENDER AND APPENDICES
APPENDIX C: DELIVERY SCHEDULE

The Tendere shall show below date which equipment will be delivered, for the substation.

<u>ITEM No.</u>	<u>QUANTITY</u>	<u>DELIVERY DATE</u>
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