

# شركة كمرباء محافظة إربد م.ع.م Irbid District Electricity Co. Ltd.



# Call-Off Contract No. (15/2020) (Page 63)

# Two years Call - Off Contract for Supply of Outdoor Distribution Transformer.

# **Tenderer:**

	Name:
	Address:
•	Telephone / Cellular:
	Fax:
•	Website:
	E-Mail:
	Contact Porson:

**Tender Document Cost = 150 JD.** 







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# Invitation to Call - Off Contract No. (15/2020)

### Dear Sir;

You are kindly requested to tender for the supply of the below mentioned materials as per the quantities and technical specifications based on call-off basis for a period of two (2) years based on three kinds of purchasing methods (option (1) short term payment, option (2) long term payment during four years,; option (3) purchase commitments enclosed herewith by filling in the schedules, signing the form of tender, and forward the complete tender documents to the attention of IDECO general manager addressed as seen on the cover page, to be received not later than 2 pm (local time) due **October 14, 2020.** 

All bids must be accompanied with a Bid Bond of not less than <u>not less than 5% of the highest</u> <u>alternative offered price based on copper basic price CU= 6500 USD/MT</u> valid for 120 days from the closing date, otherwise your tender will not be considered. The bid bond shall be enclosed in the same envelope of the tender and must be delivered to tenders secretary office located in general management building – financial department not later than 2 pm (local time) due October 14, 2020.

Table 2

Item	Quantity	Material Description	Stock
No.	(PCS)	Material Description	Code
1	40	Rated 33/0.415kV, 630 kVA, outdoor distribution transformer, hermetically sealed.	6120-1217
2	7	Rated 33/0.415kV, 250 kVA, outdoor distribution transformer, hermetically sealed, cable box from opposite side.	6120-1261
3	11	Rated 33/0.415kV, 630 kVA, outdoor distribution transformer, hermetically sealed, cable box from opposite sides.	6120-1263

### **GENERAL CONDITIONS**

#### 1. Preamble

**1.1.** These General Conditions shall apply, save as varied by express agreement accepted in writing by both parties.

### 1.2. Definition of Terms:

The "Purchaser" shall mean "Irbid District Electricity Co. Ltd." Hereinafter called "IDECO", and shall include IDECO's legal personal representatives and duly appointed engineers. The "Engineer" shall mean "Irbid District Electricity Co." Engineers or persons for the time being or from time to time duly appointed in writing by the purchaser to act as Engineer or the purpose of the contract.

The words "approved" and "approval" where used in these conditions or in the specification shall mean "approved by" and" approval of" the purchaser respectively. The "Vendor" shall mean the "Contractor" who's tender has been accepted by the purchaser and shall include the Vendor's. (Contractor's) legal personal representatives, successors and permitted assigns, "F.O.B. Price" shall mean the cost of the equipment delivered free on board the ship or truck or aircraft, all port charges and handling charges (also heavy lift if applicable) included.

The contractor must insure the material against all risks from the time it leaves the works until it is placed "F.O.B". "C&F price" shall mean F.O.B. price plus freight including unloading at the port of destination. All Marine Insurance will be affected by the purchaser. The contractor must provide full details of the material to be shipped in good time for IDECO to arrange for Marine Insurance before the material is actually shipped.

"The call - off purchase order "means formal request for delivery to be issued by IDECO specifying materials to be supplied, delivered, and tested by the contractor upon request by IDECO.

"Parties" means IDECO and contactor / vendor.

2. IDECO will sign a Framework Agreement with successful supplier which governs the relationship between the company and the supplier, and upon signing the agreement. The supplier should submit a design package for each awarded type, in addition a milestone table to be established to determine the durations of supply activities; i.e: design submittal, FAT advanced notice, release of shipment, ETC; where each purchase order date should be considered as the initial milestone date.

### 3. Formation of Call - Off Contract

- 3.1. The contract shall enter into force upon the date of awarding (hereinafter referred to as the "Effective Date") and shall be valid for 2 years thereafter and until the parties fulfill all their obligations hereunder.
- 3.2. IDECO has a right during the agreement validity to amend the contract up to extra one year.
- 3.3. The contract is not a commitment to purchase by the buyer. Commitment to purchase will only be made when IDECO issues an official purchase order under the terms of the agreement.

- 3.4. The call-off contract shall remain valid for on call delivery for a period of two years from the date of signing the contract (agreement), and/or the expiration of the total contract quantity, whichever first occurs.
- 3.5. The required materials under this contract shall be required partially in accordance with number of call-off purchase orders during agreement validity for on-call delivery for a period of two years from the date of signing the agreement, and/or the expiration of the total contract quantity, whichever first occurs.
- **3.6.** Notwithstanding that the contract and correspondence in connection with the contract shall be in the English language, the contract shall be and be deemed to be a Jordan contract and shall accordingly be governed by and construed cording to the laws for the time being in force in the Hashemite Kingdom of Jordan.
- 3.7. Power to Vary The Work: alternations, amendments, omissions, additions, suspensions, or variations of the work, (hereinafter referred to as "variations") under the contract as shown by the contract drawings or the specification shall be made by the contractor except as directed in writing by the purchaser, but the purchaser shall have full power, subject to the provision hereinafter contained, from time to time during the execution of the contract by notice in writing to instruct the contractor to make such variation without prejudice to the contract and the contractor shall carry out such variations, and be bound by the same conditions, as far as applicable, as though the said variations occurred in the specification. If any suggested variations would, in the opinion of the contractor, if carried out, prevent him fulfilling any of his obligations or guarantees under the contract, he shall notify the purchaser thereof in writing, and the purchaser shall decide forthwith whether or not the same shall be carried out, and if the purchaser confirms his instructions, the contractor's obligations and guarantee shall be modified to such an extent as may be justified. The difference in cost, if any, occasioned by any such variations, shall be added to or deducted from the contract price as the case may require. The amount of such difference, if any, shall be ascertained and determined in accordance with the rates specified in the schedule of prices so far as the same may be applicable, and where the rates are not contained in the said Schedule, or are not applicable they shall be settled by the purchaser and the contractor jointly. But the purchaser shall not become liable for the payment of any charge in respect of any such variations, unless the instruction for the performance of the same shall have been given in writing by him. In the event of the purchaser requiring any variation, such reasonable a proper notice shall be given to the contractor as will enable him to make his arrangements accordingly, and in cases where goods or materials are already prepared, or any designs, drawings, or patterns made or work done that requires to be altered a reasonable sum in respect thereof shall be allowed by the purchaser. Provided that no such variations shall, except with consent in writing of the contractor, be such as will involve an increase or decrease of the total price payable under the contract by more than 25 percent thereof. The power given to the purchaser to make any alteration, amendment, omission, addition or variation to, from or in any part of the works shall include power to vary from time to time the date for the completion of the works or any part thereof.
- 3.8. IDECO has the complete right during the validity of the contract up to the last delivery to increase or decrease the quantity of the required items, in such manner that does not exceed 25% of the total contract value.
- 3.9.IDECO has the complete right not to award all items under this contract to one supplier, partial awarding per item or per quantity for a single item might be applicable and the suppliers do not have the right to object.

- 3.10. IDECO has a complete right to substitute certain items instead of other items by increasing or decreasing the required quantity in the contract.
- **3.11. Precedence:** In the event of any discrepancy or contradiction between the provisions of the conditions of contract and of the specification, the conditions of contract shall take precedence.
- 3.12. Prices: The Tender calls for firm prices, and the tenderer shall submit three offers for purchasing methods, the following purchasing methods are defined as follows:
  - 3.12.1 Short term payment: in this purchasing method, the payment of delivered material (purchase order) will be released during one month from material receiving in IDECO store.
  - 3.12.2 Long term payment: in this purchasing method, the payment of delivered material (purchase order) will gradually release during four parts as follows: first payment will be 25% of amount after material receiving, second payment 25% of amount after one year from material receiving, third payment 25% after two years from material receiving, fourth payment 25% after three years from material receiving.

#### 3.12.3 Purchase commitment: in this method

- 2.5.1.1 The Agreement between purchaser and contractor shall remain valid for on-call for a period of two years from the Date of signing the contract (agreement), and/or the expiration of the total contract quantity, whichever first occurs.
- 2.5.1.2 The required quantity under this tender shall be partially ordered in accordance with number of purchase orders, and The Purchaser has the right to order all the required quantity, and/or part thereof as a numbers of purchase order during number of purchase orders without objection from the Contractor during Agreement validity.
- 2.5.1.3 This Agreement is a commitment to purchase (only the required quantity in purchase order will be issued) by the buyer during validity of this agreement.
- 2.5.1.4 IDECO has the complete right to keep (store) the required quantity of each purchase order in manufacturer's store for period (1-12) months from the date of finished manufacturing with fixed price.
- 2.5.1.5 The offered price shall be fixed (as adjusted on awarding date based on closing price for LME (CU)) during validity of this agreement.
- 2.5.1.6 The payment for each order will be released during one month from material receiving in IDECO stores.

#### 4. Drawings and Descriptive Documents

- 4.1 The weights, dimensions, capacities, prices, performance rating and other data included in catalogues, prospectuses, circulars, advertisement, illustrated matter and price lists constitute an approximate guide. These data shall not be binding save to the extent that they are by reference expressly included in the contract.
- 4.2 Any drawings or technical documents intended for use in the construction of the material or of part thereof and submitted to the purchaser prior or subsequent to the formation of the

contract remain the exclusive property of the Vendor. They may not, without the Vendor's consent, be utilized by the purchaser or copied, reproduced, transmitted or communicated to a third party. Provided, however, that the said plans and documents shall be the property of the purchaser.

- 4.2.1 If it is expressly so agreed, or
- 4.2.2 If they are referable to a separate preliminary development contract on which no actual construction was to be performed and in which the property of the Vendor in the said plans and documents was not reserved.
- 4.3 Any drawings or technical documents intended for use in the construction of the material or of part thereof and submitted to the Vendor by the Purchaser prior or subsequent to the formation of the contract remain the exclusive property of the Purchaser. They may not, without his consent be utilized by the Vendor or copied, reproduced, transmitted or communicated to a third party.
- 4.4 The Vendor shall, if required by the purchaser, furnish free of charge to the purchaser at the commencement of the Guarantee Period, as defined in clause 9, information and drawings other than manufacturing drawings of the material in sufficient detail to enable the purchaser to carry out the erection, commissioning, operation and maintenance (including running repairs) of all parts of the material. Such information and drawings shall be the property of the purchaser and the restrictions on their use set out in paragraph 2 hereof shall not apply thereto. Provided that if the Vendor so stipulates, they shall remain confidential.

### 5. Materials Packing and Shipping Marks

All materials, equipment and goods shall be very well packed, in seaworthy containers and/or wooden cases, etc. These should protect the material during shipping, handling, unloading, and for a reasonable period of storage at Aqaba and latter storage at IDECO stores. Packing for indoor materials should be done in such manner as to adequately ensure no ingress of moisture during the shipping and storage periods. Packing of fragile equipment (e.g. including instruments and porcelain) should be done in a way which ensures a reasonable resistance to impact breakage during transport. Packing shall in general be adequate and in compliance with the best international practice. A descriptive and fully itemized list shall be prepared for the contents of each packing case. A copy of this list shall be placed in a waterproof envelope under a metal or other suitable plate securely fastened to the outside of one end of the case. And its position adequately indicated by stenciling on the case. Where appropriate drawing showing the erection marking of the items concerned shall be placed inside the case, IDECO will supply the successful tenderer with a drawing of its shipping mark for utilization. All packing cases, crates, barrels and drums shall remain the property of the purchaser.

### 6. Inspection and Testing

- **6.1.** If expressly agreed in the contract, the purchaser shall be entitled to have the quality of the materials used and the parts of the instruments, both during manufacture and when completed, inspected and checked by his authorized representatives. Such inspection and checking shall be carried out at the place of manufacture during normal working hours after agreement with the Vendor as to date and time.
- **6.2.** If as a result of such inspection and checking the purchaser shall be of the opinion that any materials or parts are defective or not in accordance with the contract, he shall state in writing his objections and the reasons therefore.

- **6.3. TESTS**: Acceptance tests will be carried out and, unless otherwise agreed, will be made at the Vendor's works and during normal working hours. If the technical requirements of the tests are not specified in the contract, the tests will be carried out in accordance with the general practice obtaining in the appropriate branch of the industry in the country where the material is manufactured.
- **6.4.** The Vendor shall give to the purchaser sufficient notice of the tests to permit the purchaser's representatives to attend. If the purchaser is not represented at the tests, the tests report shall be communicated by the Vendor to the purchaser and shall be accepted as accurate by the purchaser.
- **6.5.** If on any test (other than a test site, where test on site are provided for in the contract) the material shall be found to be defective or not in accordance with the contract, the Vendor shall with all speed make good the defect or ensure that the plant complies with the contract. Thereafter, if the purchaser so requires, the test shall be repeated.
- **6.6.** Unless otherwise agreed, the Vendor shall bear all the expenses of tests carried out in his works.
- **6.7.** If the contract provides for tests on site, the terms and conditions governing such tests shall be such as may be specially agreed between the parties.

### 7. Passing of Risk

Save as provided in paragraph 7.6, the time at which the risk shall pass shall be fixed in accordance with the International Rules for the Interpretation of Trade Terms (Incoterms) of the International Chamber of Commerce in force at the date of the formation of the contract.

- **8. Delivery:** Unless otherwise agreed the delivery period shall run from the date of the formation of the contract as defined in clause 2.
  - 8.1 Should delay in delivery be caused by any of the circumstances mentioned in clause 10 or by an act or omission of the purchaser and whether such cause occur before or after the time or extended time for delivery, there shall be granted subject to the provisions of paragraph 5 hereof such extension of the delivery period as is reasonable having regard to all the circumstances of the case.
  - 8.2 If a fixed time for delivery is provided for in the contract and the Vendor fails to deliver within such time or any extension thereof granted under paragraph 2 hereof, the purchaser shall be entitled, on giving to the Vendor within a reasonable time notice in writing, to claim a deduction of the price payable under the contract. Such deduction shall be calculated at the rate of **one half of one percent** of that part of the price payable (**purchase order value**) under the contract which is properly attributable to such portion of the materials as cannot in consequence of the said failure be put to the use intended for each complete week of delay commencing on the due date of delivery, **but shall not exceed a maximum percentage deduction of ten percent from purchase order value**. Such deduction shall be allowed when a payment becomes due on or after delivery. Save as provided in paragraph 5 hereof, such deduction of price shall be to the exclusion of any other remedy of the purchaser in respect of the Vendor's failure to deliver as aforesaid.
  - 8.3 If the time for delivery mentioned in the contract is an estimate only, either party may after

the expiration of two thirds of such estimated time require the other party in writing to agree a fixed time. Where no time for delivery is mentioned in the contract, this course shall be open to either party after the expiration of six months from the formation of the contract. If in either case the parties fail to agree, either party may have recourse to arbitration, in accordance with the provisions of clause 13, to determine a reasonable time for delivery and the time so determined shall be deemed to be the fixed time for delivery provided for in the contract and paragraph 3 hereof shall apply accordingly.

- 8.4 If any portion of material in respect of which the purchaser has become entitled to the maximum deduction provided for by paragraph 3 hereof, or in respect of which he would have been so entitled had he given the notice referred to therein, remains undelivered, the purchaser may by notice in writing to the Vendor require him to deliver and by such last mentioned notice fix a final time for delivery which shall be reasonable taking into account such delay as has already occurred. If for any reason whatever the Vendor fails within such time to do everything that he must do to effect delivery, the purchaser shall be entitled by notice in writing to the Vendor, and without requiring the consent of any court, to terminate the contract in respect of such portion of the material and thereupon to recover from the Vendor any amount not exceeding that part of the price payable under the Contract which is properly attributable to such portion of the material as could not in consequence of the Vendor's failure be put to the use intended.
- 8.5 If the purchaser fails to accept delivery on due date, he shall nevertheless make any payment conditional on delivery as if the paternal had been delivered. The Vendor shall arrange for the storage of the material at the risk and cost of the purchaser. If required by the purchaser, the Vendor shall insure the material at the cost of the purchaser. Provided that if the delay in accepting delivery is due to one of the circumstances mentioned in clause 10 and the Vendor is in a position to store it in his premises without prejudice to his business, the cost of storing the material shall not be borne by the purchaser.
- 8.6 Unless the failure of the purchaser is due to any of the circumstances mentioned in clause 10, the Vendor may require the purchaser by notice in writing to accept delivery within reasonable time. If the purchaser fails for any reason whatever to do so within such time, the Vendor shall be entitled by notice in writing to the purchaser, and without requiring the consent of any court, to terminate the contract in respect of such portion of the material as is by reason of the failure of the purchaser aforesaid not delivered and thereupon to recover from the purchaser any loss, suffered by reason of such failure up to an amount not exceeding the value of the material, the delivery of which has not been accepted.

### 9. Force Majeure

- 9.1 Notwithstanding the provisions of causes 7, the supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.
- 9.2 For purposes of this clause, "Force Majeure" means an event beyond the control the supplier not involving the supplier's fault or negligence. Such events may include, but are not restricted to, acts to the purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and fright embargoes.
- 9.3 If a Force Majeure situation arises, the supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchaser in

writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall all reasonable alternative means for performance not prevented by the Force Majeure event.

### 9.4 Payment:

- 9.4.1.1 Terms Payment for option (1) short term payment and option (3) purchase commitment shall be as follows:
  - 1. The company prefers to deal with the supplier on an open account basis, and the payment to be made as the following:
    - a. The supplier has to send the following documents: (Invoice origin + five copies), (Certificate of origin + five copies), (Bill of lading 3-negotiable + 5 non-negotiable), (Test certificate (where applicable) + 6 copies), to IDECO company/ financial department, and those documents shall be legalized for shipping.
    - b. 100 % of Payment will be released within one month after the receipt of goods and acceptance at IDECO stores.
    - c. The Payment will be released on first week of each month.
  - 2. In case the supplier insists on L/C as a method of payment, all/LC charges will be borne by the supplier and charge to his own account and the terms will be as follows:
    - a. The L/C will be confirmed and irrevocable but has to be acceptance L/C and the supplier has to send the following documents: (Invoice origin + five copies), (Certificate of origin + five copies), (Bill of lading 3-negotiable + 5 non-negotiable), (Test certificate (where applicable) + 6 copies), and those documents shall be legalized for shipping.
    - b. Payment will be released after submitting IDECO's acceptance certificate to the bank within one month after receipt of goods at IDECO's stores.
    - c. The Payment will be released on first week of each month.

### 9.4.1.2 Terms of payment for option (2) Long term payment during four years.

- 1. The company prefers to deal with the supplier on an open account basis, and the payment to be made as the following:
  - a. The supplier has to send the following documents: (Invoice origin + five copies), (Certificate of origin + five copies), (Bill of lading 3-negotiable + 5 non-negotiable), (Test certificate (where applicable) + 6 copies), to IDECO company/ financial department, and those documents shall be legalized for shipping.
  - b. The payment will be released as follows:
    - 1. 25 % of Payment will be released within one month after the receipt of goods and acceptance at IDECO stores.
    - 2. 25 % of Payment will be released within one year after the receipt of goods and acceptance at IDECO stores.
    - 3. 25 % of Payment will be released within two year after the receipt of goods and acceptance at IDECO stores.

4. 25 % of Payment will be released within three year after the receipt of goods and acceptance at IDECO stores.

2.In case the supplier insists on L/C as a method of payment, all/LC charges will be borne by the supplier and charge to his own account and the terms - will be as follows:

- a. The L/C will be confirmed and irrevocable but has to be acceptance L/C and the supplier has to send the following documents: (Invoice origin + five copies), (Certificate of origin + five copies), (Bill of lading 3-negotiable + 5 non-negotiable), (Test certificate (where applicable) + 6 copies), and those documents shall be legalized for shipping.
- b. Payment will be released after submitting IDECO's acceptance certificate to the bank within the following period after receipt of goods at IDECO's stores:
  - 1. 25 % of Payment will be released within one month after the receipt of goods and acceptance at IDECO stores.
  - 2. 25 % of Payment will be released within one year after the receipt of goods and acceptance at IDECO stores.
  - 3. 25 % of Payment will be released within two year after the receipt of goods and acceptance at IDECO stores.
  - 4. 25 % of Payment will be released within three year after the receipt of goods and acceptance at IDECO stores.
- **9.4.2 Currency of Payment:** The contract price will normally be paid in the currency or currencies in which the price has been stated. The purchaser, however, reserves the right to make payments in the currencies of the countries of origin of goods and services at the exchange rates applicable at the time of payment of the contract price.
- **9.4.3** Any advance payments made by the purchaser are payments on account and do not constitute a deposit, the abandonment of which would entitle either party to terminate the contract.
- 9.4.4 If delivery has been made before payment of the whole sum payable under the contract, material delivered shall, to the extent permitted by the law of the country where the plant is situated after delivery, remain the property of the Vendor until such payment has been effected. If such law does not permit the Vendor to retain the property in the material, the Vendor shall be entitled to the benefit of such other rights in respect thereof as such law permits him to retain. The purchaser shall give the Vendor any assistance in taking any measures required to protect the Vendor's right of proper or such other rights as aforesaid.
- **9.4.5** A payment conditional on the fulfillment of an obligation by the Vendor shall not be due until such obligation has been fulfilled, unless the failure of the purchaser is due to an act or omission of the purchaser.
- **9.4.6** If the purchaser delays in making any payment, the Vendor may postpone the fulfillment of his own obligations until such payment is made, unless the failure of the purchaser is due to an act or omission of the Vendor.
- **9.4.7** If delay by the purchaser in making any payment is due to one of the circumstances mentioned in clause 10, the Vendor shall not be entitled to any interest on the sum due.
- **9.4.8** Save as aforesaid, if the purchaser delays in making any payment, the Vendor shall on giving to purchaser within a reasonable time notice in writing be entitled, and

without requiring the consent of any court, to terminate the contract and thereupon to recover from the purchaser the amount of his loss up to the value of the material, the payment for which has been unreasonably delayed.

#### 10. Guarantee:

- **10.1.** Subject as hereinafter set out; the Vendor undertakes to remedy any defect resulting from faulty design, materials or workmanship.
- **10.2.** This liability is limited to defects which appear during the period (hereinafter called the Guarantee Period) of fifteen months from date of dispatch ex-works or twelve months from the date of setting to work whichever shall be the later.
- **10.3.** In fixing this period due account has been taken of the time normally required for transport as contemplated in the contract.
- **10.4.** In respect of such parts (whether of the Vendor's own manufacture or not) of the material as are expressly mentioned in the contract, the Guarantee Period shall be such other period (if any) as is specified in respect of each of such parts.
- **10.5.** The Guarantee period shall start from the later of the dates mentioned in paragraph 2 above. If however dispatch ex-works is delayed for a period in excess of three months due to a cause beyond the control of the Vendor the Guarantee Period shall not extend beyond eighteen month from the date the material was ready for dispatch ex-works.
- **10.6.** The Guarantee period is based on the continuous use of the material in service for 24 hours every day.
- 10.7. A fresh Guarantee Period equal to that stated in paragraph 2 hereof shall apply, under the same terms and conditions as those applicable to the original material, to parts supplied in replacement of defective parts or to parts renewed in pursuance of this clause. This provision shall not apply to the remaining parts of material, the Guarantee Period of which shall be extended only by a period equal to the period during which the material is out of action as result of a defect covered by this clause.
- **10.8.** In order to be able to avail himself of his rights under this clause the purchaser shall notify the Vendor in writing without delay of any defects that have appeared and shall give him every opportunity of inspecting and remedying them.
- 10.9. On receipt of such notification the Vendor shall remedy the defect forthwith and at his own expense. Save where the nature of the defect is such that it is appropriate to effect repairs on site, the purchaser shall return to the Vendor any part in which a defect covered by this clause has appeared, for repair or replacement by the Vendor, and in such case the delivery to the purchaser of such part properly repaired or a part in replacement thereof shall be deemed to be a fulfillment by the Vendor of his obligations under this paragraph in respect of such defective part.
- **10.10.** The Vendor shall bear all the costs and risks of the transport of defective parts or equipments and their replacements.
- **10.11.** Where, in pursuance of paragraph 9 hereof, repairs are required to be effected on site, the conditions covering the attendance of the Vendor's representatives on site shall be such as may be specially agreed between the parties.
- **10.12.** Defective parts replaced according to this clause shall be placed at the disposal of the Vendor.
- **10.13.** If the Vendor refuses to fulfill his obligations under this clause or fails to proceed with due diligence after being required so to do, the purchaser may proceed to do the necessary work at the Vendor's risk and expense, provided that he does so in a reasonable manner.
- **10.14.** The Vendor's liability does not apply to defects arising out of materials provided, or out of a design stipulated, by the purchaser.

- 10.15. The Vendor's liability shall apply only to defect that appears under the conditions of operation provided for by the contract and under proper use. It does not cover defects due to causes arising after the risk in the material has passed in accordance with clause 6. In particular it does not cover defects arising from the purchaser's faulty maintenance or erection, or from alterations carried out without the Vendor's consent in writing, or from repairs carried out improperly by the purchaser, nor does it cover normal deterioration.
- 10.16. Save as in this clause expresses, the Vendor shall be under no liability in respect of defects after the risk in the material has passed in accordance with clause 6, even if such defects are due to causes existing before the risk so passed. It is expressly agreed that the purchaser shall have no claim in respect of personal injury or of damage to property not the subject matter of the contract or of loss of profit unless it is shown from the circumstances of the case that the Vendor has been guilty of gross misconduct.
- **10.17.** The vendor is required to transport all the defective or not in accordance materials, from our stores within a month from date of notification. All costs and expenses of transportation shall be borne by the vendor. Unless otherwise agreed. IDECO has the right to deal with the defective materials in a proper way.
- **10.18.** Gross misconduct "does not comprise any and every lack of proper care or skill, but means an act or omission on the part of the Vendor implying either a failure to pay due regard to serious consequences which a conscientious contractor would normally foresee as likely to ensue, or a deliberate disregard of any consequences of such act or omission.

#### 11. Relief:

- 11.1.The following shall be considered as cases of relief if they intervene after the formation of the contract and impede its performance: industrial disputes, and any other circumstances (e.g. fire, mobilization, requisition, embargo, currency restrictions, insurrection, shortage of transport, general shortage of materials and restrictions in the use of power) when such other circumstances are beyond the control of the parties.
- **11.2.** The party wishing to claim relief by reason of any of the said circumstances shall notify the other party in writing without delay on the intervention and on the cessation thereof.
- **11.3.**The effects of the said circumstances so far as they affect the timely performance of their obligation by the parties, are defined in clauses 7 and 8. Save as provided in paragraph 7.5, 7.7, and 8.7, if by reason of any of the said circumstances, the performance of the contract within a reasonable time becomes impossible, either party shall be entitled to terminate the contract by notice in writing to the other part without requiring the consent of any court.
- **11.4.**If the contract is terminated in accordance with paragraph 3 hereof, the division of the expenses incurred in respect of the contract shall be determined by agreement between the parties.
- 11.5.In default of agreement it shall be determined by the arbitrator which party has been prevented from performing his obligations and that party shall bear the whole of the said expenses. Where the purchaser is required to bear the whole of the expenses and has before termination of the contract paid to the Vendor more than the amount of the Vendor's expenses, the purchaser shall be entitled to recover the excess. If the arbitrator determines that both parties have been prevented from performing their obligation, he shall apportion the said expenses between the parties in such manner as to him seems fair and reasonable, having regard to all the circumstances of the case.
- 11.6. For the purposes of this clause "expenses" means actual out of pocket expenses reasonably incurred, after both parties shall have mitigated their losses as far as possible. Provided that as respects material delivered to the purchaser the Vendor's expenses shall be deemed to be that part of the price payable under the contract which is properly attributable thereto.

### 12. Limitation of Damages:

- **12.1.** Where either party is liable in damages to the other these shall not exceed the damage which the party in default could reasonably have foreseen at the time of the formation of the contract.
- **12.2.** The party who sets up a breach of the contract shall be under a duty to take all necessary measures to mitigate the loss which has occurred provided that he can do so without unreasonable inconvenience or cost. Should he fail to do so, the party guilty of the breach may claim a reduction in the damages.
- **13. Rights at Termination:** Termination of the contract from whatever cause arising shall be without prejudice to the rights of the parties accrued under the contract up to the time of termination.

### 14. Arbitration and Law Applicable:

- 14.1 Any dispute, question or controversy shall arise between the purchaser and the contractor concerning this contract the matter in dispute shall be referred to an arbitration committee composed of three (3) arbitrators. One arbitrator shall be nominated by the purchaser and one by the contractor, and the third arbitrator shall be appointed by both parties. If either party fails to appoint his arbitrator within one month of the appointment of the arbitrator by the other party, or if the two parties fail to agree on the third arbitrator within two months of the date of the request to refer the dispute to arbitration, such arbitrator shall be appointed by the president of the highest court in Jordan at the request of either or both parties.
- 14.2 The decision of the arbitrators shall be final and binding on both the purchaser and the contractor. Any such reference shall conform to the statutory enactment or regulation governing arbitration as may be in force in Jordan at the time. The assessment of costs incidental to the reference and award respectively shall be at the discretion of the arbitration committee.
- 15. After Awarding Tenders, winner tenderer will be assessment according to quality of good, delivery period, service after sale, and assessment weight will be considered in coming tenders' evaluation.
- 16. Where the contractor, who was awarded the bid, ceased or failed in implementing the conditions of the bid; IDECO Company has the right to take the appropriate decision on the confiscation of the amount of guarantee or insurance provided by the bidder upon his participation in the tender, In addition, the IDECO company has the right to the restriction of participation of this bidder in all of the company's bids for the duration seen appropriate.
- 17. The Irbid Electricity Company shall be entitled to penalize the contractor (late to supply the required materials by tender or tender) the value of the fine due to the Irbid Electricity Company imposed by the Regulatory Authority of the Energy Sector as a result of the company's failure to comply with the required periods in executing the specified subscriber transactions Treatment is the delay of the supplier in the supply of material or materials necessary in the implementation of transactions subscribers.
- 18. The purchaser has the complete right to reply on contractor's clarifications during 7 days, and during this period there is not exemption from incurred penalty for the event.

### 19. Ordering Procedures and Delivery Period

- 19.1. IDECO Company prefer Delivery period for each call off purchase order for the required items (1, 2, 3) within 12-14 weeks, and the priority will be given to the contractor who decrease the delivery period for purchase orders.
- 19.2. The contractor shall determine the delivery period which should be considered as the contractual delivery period for each call-off purchase order where this period is an important factor during the evaluation and priority should be given to earlier.
- 19.3. The purchaser will issue official call-off purchase orders for the required quantity including the date of adjust price as per London Metal Exchange (LME).
- 19.4. The contractor shall send to the purchaser a revised price letter for the required quantity in the call-off purchase order, and the total value for each call-off purchase order will be calculated in according to the formula mentioned, and based on LME copper closing price.
- 19.5. The purchaser has to send a final awarded letter for each call-off purchase order containing the final total order value for the required items, enabling the contractor or his representative to pay the stamps fees.
- 19.6. The contractor shall determine the minimum and maximum value per each purchase order, and determine the number of times of purchase orders can be delivered within two years. And the priority will be given to the contractor who minimize the purchase order value and maximize the number of times of purchase orders.

# **Tendering Instructions**

- 1. The Tender shall be made in one copy of the accompanying form; however, all blanks and schedules shall be filled up in ink, and signed without alteration to the form of tender. If any such alteration were made, or if these Instructions were not fully complied with, the tender may be rejected. The tenderer; however, is at liberty to add any further details that he may deem desirable and, in the event of his so doing, shall print or type such details and annex the added matter to the tender submitted by him. Such additional details shall not be binding upon the purchaser unless they shall be subsequently incorporated in the contract.
- 2. One copy of the tender, and its accompanying documents, filled up as directed, together with the drawings, catalogs, and relevant documents called for, must be enclosed in a secure envelope endorsed (Tender for Contract) No. (15/2020) but bearing no other mark from which the identity of the tenderer can be ascertained.
- **3.** All correspondences in connection with this tender and all matters accompanying the tender that are relevant to its examination shall be in English language and expressed in metric units.
- **4.** The tender is to be held open for acceptance or rejection for a validity period of (120) days from the time fixed for opening the tenders.
- **5.** Tenders received prior to the time fixed for opening of tenders will be securely kept, unopened. Tenders received after that time will be rejected. The purchaser bears no responsibility for premature opening of tenders not properly addressed or identified.
- 6. Tenders may be withdrawn by formal request received in writing from the tenderer prior to the time fixed for opening. If for any reason the tender should be withdrawn after the time fixed for opening and before expiry of the said validity period, the purchaser has the right to retain the full value of the tender bond.
- 7. The successful tenderer shall abide by the commercial and professional regulations as required by the Ministry of Industry & Trade, Engineering Association and other relevant Institutions in Jordan.
- **8.** Tenderers attention is drawn to the action of customs officers in the discharge of their duties. Whereby air parcels are frequently opened in their own interests and in order to preserve the confidential nature of the tender price, tenderers are urged to pay attention to the:
  - **a.** To dispatch the completed tender document and any covering letter only by Air Mail which should be endorsed and labeled in the manner laid down in paragraph 10 of the Instructions to Tendering.
  - **b.** Technical literature and the like may reasonably be sent by Air Parcel or Air Freight but since this would then be separated from the actual Tender, each parcel should contain specific evidence identifying the Tender to which the contents refer.
  - **c.** The purchaser will not consider late or incompletely delivered tenders or literature supporting tenders due to the action of any customs officer.

- 9. In the event that the intending signatory does not manufacture one or more of the main sections of equipment and materials, then the tender submitted should give evidence to show that all the obligations imposed by the documents on the intending signatory have been fully understood and accepted, where applicable, by the manufacturer(s) to whom it would be intended to subcontract one or more of the main sections of the equipment and materials.
- 10. For overseas transport of the contractor and his Sub-contractors, suppliers and manufactures must give priority to Jordan shipping national lines, and to Arab shipping companies and their subsidiaries for the shipping of goods, materials provided such companies ships call at the port of export. The contractor shall also give priority to the Royal Jordanian Airlines for air freight shipment and transport of personnel.
- **11.**Tenderer must submit country of origin and name of manufacturer for the offered goods.
- **12.** The foreign bidders who participate in this tender must submit their bids through a registered local agent or through their registered office in Jordan.
- **13.**For all manufacturers from inside Jordan it is quite essential that they have JQM for their products and the purchaser will have the right to accept or reject their offer if they did not submitted the JQM certificate with their offer.
- **14.** If samples were not re-claimed by the tenderer within one month from date of order all samples shall remain the property of the purchaser.
- **15.** The purchaser will not be responsible for, nor to pay for, any expenses or losses which may be incurred by a tenderer in the preparation of his tender.
- **16.**If the tenderer has any doubt about the meaning of any portion of the General Conditions, Specifications, Drawings, he shall clarify such doubts before submitting his tender, or in case of any further information can be obtained by an application in writing to the director general.
- 17. Tenderers are particularly directed that the amount entered on the form of tender shall be a fixed price for performing the contract strictly in accordance with the bound document, and shall be the sum total of all the amounts printed into and entered by the tenderer upon the schedule of prices.
- **18.** Tender price shall include all incidental and contingent expenses.

- 20. The successful tenderer has to submit a performance bond for each call-off purchase order will be issued by the purchaser equal to (10) percent of the total call-off purchase order value within (30) days from date of the final awarded letter for purchase order.
- 21. The performance bond for each call-off purchase order should be valid for period of (15) months from the date of the purchase order.
- 22. If the contractor fails for any reason to submit the required performance bond within (30) days, the purchaser has the right to confiscate the bid bond and any other submitted performance bond, and the awarding letter for issued call-off purchase order will be cancelled too.
- 23. If the successful tenderer fails for any reason to submit the required performance bond within (30) days, the purchaser has the complete right to reserve the value of materials supplied, and payment will not release till the successful tenderer submit the required performance bond. And the bid bond will not return to the tenderer unless the performance bond shall submit to the purchaser according to tender conditions.
- **24.** The tenderer shall state in his tender the name or names of the sureties, insurance company, or bank proposed for guaranteeing the performance of the contract.
- **25.** Prices are highly recommended to be on the basis of C&F IDECO STORES. However C&F AQABA port or Amman customs are also accepted.
- 26. Stamp duty and award fees are payable on Jordanian contracts according to Jordanian laws and, after the placing of a contract, it is the contractor's responsibility to purchase legal stamps to the requisite amount depending on the contract value for each purchase order.
- 27. If after receipt of tenders, the purchaser finds any difference between prices shown on the form of tender in writing and in numerals, then the price shown in writing shall be considered correct by the purchaser and the tenderer. If any discrepancies are found between the total in the price schedule and the total obtained by adding the products of each quantity and its particular rate then, whether the price shown on the form of tender in numerals or in writing corresponds or not, the total obtained by adding the products of the quantities and their particular rates shall be considered by the purchaser and the tenderer as the tender price.
- 28. Tender revaluation will be consistent with the terms and conditions set forth in the tender document. In addition to the tender price adjusted to correct arithmetical errors, other relevant factors such as the time of completion of delivery or construction, operating costs where applicable, or the efficiency and compatibility of the equipment, the availability of service and spare parts, and reliability of construction methods proposed will be taken into consideration, to the extent and in the manner specified in the tender documents, in determining the evaluated tender most advantageous to the purchaser. For comparison of all tenders, the currency or currencies of the tender price for each tender will be valued in terms of Jordanian Dinars. The rates of exchange to be used in such valuation will be the selling rates published by the central bank of Jordan and applicable to similar transactions, on the day tenders are opened unless there should be a change in the value of the currencies before the award is made. In the latter case, the exchange rates prevailing at the time of the decision to notify the award to the successful tenderer may be used.

- 29. The purchaser does not bind himself to accept the lowest or any tender, nor to assign any reason for the rejection of any tender, nor to purchase the whole of the equipment and materials specified. The purchaser has the right to purchase part of the tender, even if it is only one item from the schedule of rates and prices.
- 30. The tenderer shall submit with his tender in order of the relevant clauses, a statement of any departures from specifications, or he can fill in the related schedule attached herewith. Notwithstanding any description, drawings, or literature which may be submitted, all details other than those in the statement of departures shall be assumed to be in accordance with the specification.
- **31.** Although IEC standards for workmanship, equipment and materials, have been selected in this specification as a basis of reference, standards and specifications of other countries and recommendations of other international standard organizations will be acceptable provided that they are substantially equivalent to the designated standards and provided further that the tenderer submits for approval detailed specification which he proposes to use.
- **32.**References to brand names or catalog numbers, if any, in this specification have been made only for that equipment for which it has been determined that a degree of standardization is necessary to maintain certain essential features. In certain instances such references have also been made for purpose of convenience to specify the requirements. In either case offers of alternative goods which have similar characteristics and provide performance and quality at least equal to those specified are acceptable.
- **33.** Where compliance with a specific standard specification is called for the standard specification used shall be that in force at the time of tender.

# **General Requirements Standards and Regulations**

➤ The following general requirements will apply, in so far as they may be applicable, to material to be supplied under this particular contract.

### 1. Design and Construction:

In complying with the requirements of the specification both with respect to arrangement and detail, design is to conform to the best current engineering practice. Each of the several parts of the material is to be of the maker's standard design provided that this design is in general accordance with the specification.

The essence of design should be simplicity and reliability in order to give long continuous service with high economy and low maintenance cost. Particular attention should be paid to internal and external access in order to facilitate inspection, cleaning and maintenance. The design dimensions and materials of all parts are to be such that they will not suffer damage as a result of stresses under the most severe conditions. Fully detailed specifications of the several parts of the material are to be submitted describing particularly the materials to be used. The materials used in the construction of the material are to be of the highest quality and selected particularly to meet the duties required of them. Mechanisms are to be constructed to avoid sticking due to rust or corrosion. Workmanship and general finish are to be of the highest class throughout. All similar parts of the material are to be interchangeable.

All equipment is to operate without undue vibration and with the least possible amount of noise and is not to cause a nuisance. All equipment is to be designed to minimize the risk of fire and any damage, which may be caused in the event of fire.

The equipment is also to be designed to prevent ingress of all vermin, accidental contact with live parts and to minimize the ingress of dust and dirt. The use of materials, which may be liable to attack by termites or other insects, is to be avoided.

### 2. Compliance with Standards:

Although the standards for workmanship, material, and equipment have been selected in these specifications as a basis of reference, standards and specifications of the other bank member countries and recommendations of standards international organizations will be acceptable provided they are substantially equivalent to the designated standards and provided furthermore that the contractor submits for approval detailed specifications which he proposes to use. Reference to brand names or catalog numbers if any in these specifications have been made only for that equipment for which it has been determined that a degree of standardization is necessary to maintain certain essential features. And in certain cases such references have also been made for purposes of convenience to specify the requirements, in either case offers of alternative goods, which have similar characteristics and provide performance and quality at lease equal to those specified are acceptable. If the contractor offers materials, equipment, design calculations or tests, which conform to standards other than those specified, full details of the differences between the proposed standards and that specified in so far as they affect the design or purpose of the equipment, are to be supplied by the contractor if called upon to do so by the engineer, where required by the engineer for approval purposes, the contractor shall supply, without charge, duplicate copies of the proposed standards with English translations of the relevant portions. The contractor shall have available in his place of business (or in his supplier's works) the relevant copies of standards or codes used for the use of the Engineer.

### 3. Statutory Regulations

The materials, equipments and instruments forming part of this contract are to comply in all respect with any relevant local statutory regulations, by laws & orders currently in force.

### 4. Language

English language shall be used in all documents contained in the tender and in all correspondence between the contractor and engineer. Whenever any thing is required under the terms of the contract to be written marked, printed or engraved, the English language shall be used and duplicated in Arabic except where otherwise provided in this specification.

### 5. Correspondences

All correspondences on matters arising out of the contract shall be addressed by the contractor to Engineer and not directly to but copied to the purchaser.

#### 7. Units of Measurement

In all correspondence, in all technical schedules, on all drawings and for all instrument scales, SI units of measurement are to be employed. On drawings where IEC or other units have been used it will be in order if the equivalent SI measurement is suitably marked in addition.

### 8. Contractor's Responsibilities

Unless stated specifically to the contrary in the tender with full supporting explanations, the contractor will be deemed to have concurred as a practical manufacturer with the design and layout of the works as being sufficient to ensure reliability and safety in operation, freedom from undue stresses and satisfactory performance in all other essentials as a working material.

### 9. Compliance with Specification

Notwithstanding any descriptions, drawings or illustrations which may have been submitted with the tender, all details other than those shown on the schedule of departures will be deemed to be in accordance with the specification and the standard specification and codes referred to therein.

No departures from the specification except those shown on the schedule of departures and approved by the purchaser are to be made without the written approval of the Engineer.

### 10. Drawings and catalogues

The Tenderer must submit with his offer all the specification indicating rating, weights, and dimension and time current characteristics of the offered materials.

Before the work is put in hand, dimensioned drawings and diagrams showing all details of the material, and materials to be used are to be submitted to the engineer for approval.

No wiring or connection diagrams shall be submitted fir approval unless prior approval has been obtained for schematic diagrams, which are to include control and protection schematics showing the facilities being provided and the working of the schemes.

The drawings are to be submitted in quadruplicate and as soon as possible after the commencement date of the contract, and in any case in sufficient time to permit modifications to be made, if such deemed necessary by the Engineer without delay in the delivery of the contract work. The drawings submitted are to be modified as necessary if requested by the Engineer and resubmitted for final approval. If the contractor requires urgent approval of any drawing to avoid delay in the delivery of the contract works, he is to advise the Engineer accordingly when submitting the drawing. One copy of each drawing and diagram shall be sent direct to the purchaser. It is to be understood, however, that approval of the drawings will not exonerate the contractor from any responsibility in connection with the work. After all items of material have

been manufactured and accepted three 35mm negatives of each drawing previously approved is to be provided together with one reproducible on gauge polyester base film or similar and two prints on heavy gauge white paper from such drawings as may be required to show the detail and arrangement of the material as made. All drawings submitted by the contractor or by any sub contractor are to have the following particulars in the lower right hand corner in addition to the contractor's name:

### IRBID DISTRICT ELECTRICITY COMPANY, CONTRACT NUMBER (15/2020).

### 11. Program of work

Within one month of acceptance of the tender, the contractor is to forward to the engineer four copies of chart detailing the material manufacture and delivery Program for the complete contract work for his comment or approval. Copies of the approved chart, as required by the engineer, are to be provided by the contractor. The chart is to indicate the various phases of work for all items of the contractor from the commencement of the contract to its final completion, e.g. design, ordering, of materials, manufacture and delivery. If at any time during the execution of the contract it is found necessary to modify the approved chart, the contractor is to inform the engineer and submit a modified chart for approval. Such approval is not to be deemed to be consent to any amendment of the completion date stated in the schedule.

### 12. Progress Report and Meetings

### a. Progress Reports

At monthly intervals after approval of the Program chart, the contractor is to submit to the Engineer and the purchaser written detailed progress reports in triplicate in an approved form, indicating the stage reached in the design, ordering of material, manufacture and delivery of all components of the material. The reports should include details of any delays and the remedial action proposed. These reports are to be forwarded promptly so that on receipt by the engineer the information contained therein is not more than seven days out of date.

### b. Meeting:

If during the execution of the contract the Engineer considers the progress position of any section of the work to be unsatisfactory, he will be at liberty to call such meetings, either in Irbid office, or at the contractor's work, as he deems to be necessary. If required by the Engineer a responsible representative form the contractor's works is to attend such meetings. Access to the contractors and sub-contractor's works is to be granted to the engineer at all reasonable times for the purpose of ascertaining progress.

### 13. Packing

Each item to be packed properly or protected for shipment and be capable of sustaining heavy handling during transportation from the place of manufacture to the purchasers stores in Irbid and hence to site and to be suitable for storage for a period of 6 to 12 months after to site.

Tube ends and other similar open ends are to be protected from both external damage and ingress of dirt and moisture during transit and while at purchaser's stores. Flanged pipes are to have their open ends protected by adhesive tape or jointing and then be covered with a wooden blank flange secured by service bolts. Precautions are to be taken to protect shafts and journals where they rest on wooden or other supports likely to contain moisture. At such points, wrappings impregnated with anti-rust composition or vapor phase inhibitors are to be used with sufficient strength to resist chafing and indentation due to movement which is likely to occur in transit. Protective wrappings and impregnation are to be suitable for a period of three months. In

the case of ball or roller bearings installed in any items of material, precautions are to be taken to avoid indentation of the bearing races.

Metal bindings of cases are to be of corrosion resistant material position with struts or cross battens and not with wood chocks wedged in place, unless they are fastened firmly in place. All struts or cross battens are preferably to be supported by cleats fixed to the case above and below to form ledges on which the batten may rest. Cases are to be unopened after packing to prove that there is no movement of contents.

Where parts are required to be bolted to the sides of the case, large washers are to be used to distribute the pressure and the timber is to be strengthened by means of a pad.

Where practicable, all indoor items such as electric motors, switch and control gear, instruments and panels, machine components, etc., are to be cocooned or covered in polyethylene sheeting, sealed at the joints and the enclosure provided internally with a desiccators. Each crate or package is to contain a packing list in a waterproof envelope. All items of material are to be clearly marked for easy identification against the packing list. All cases, packages, etc. are to be clearly marked on the outside to indicate the total weight, to show where the weight is bearing and the correct position of the slings and are to bear an identification mark relating them to the appropriate shipping documents. Stencil marks on the outside of casings are to be indelible. The Engineer may require inspecting and approving the packing before the items are dispatched but the contractor is to be entirely responsible for ensuring that the packing is suitable for transit and such inspection will not exonerate the contractor from any loss or damage due the faulty packing.

# **Irbid District Electricity Co.**

# Form of Bid Bond

# Tender No. (15/2020)

Dear Sir,

We	are	pleased	to	inform	you	that	we	guarantee
M/S.				for		the		amount
of				in order t	o allow th	nem to subn	nit an off	er for the due
perfo	rmance of	the undertakin	g and c	bligation as	specified	in their Te	nder for	Contract No.
		.This Guarante	ee shall r	emain valid fo	r a period	d of one hun	dred twe	enty days from
the ti	me fixed for	opening the Te	enders by	/ IRBID DISTF	RICT ELE	CTRICITY C	O. LTD.	
This	Guarantee	shall be free	from any	interest and	will be e	extended or I	paid in ca	ash upon your
first i	equest in ar	ny or required,	without	the need for	natural w	arning or jud	dicial pro	ceedings and
withc	without any rights to delay, oppose, or stop payment on our part, or on the part of the Tenderer or							
any o	any of his representatives whom over. This Guarantee shall be deemed valid until the submittal of							
a dul	a duly executed Performance Bond.							
	Signed				Bank (Su	ırety)		

# Irbid District Electricity Co. Ltd.

# Form of Performance Bond

# Tender No. (15/2020)

Dear Sirs,

At the request ofbehalf of M/SAddress), we		Contractor's Name and
and unconditional Performar	nce Bond No	in the amount
unconditional payment to you or to y written demand in whole or in part n contractor and without any need for	k (the Local Bank) hereby co your authorized representation otwithstanding any objection	onsider ourselves responsible forth ves of the above sum on your first as on the part of the above named
This Bond will expire onmonths and for consecutive similar p		
Signed		Bank (Surety)

# **Technical Specifications**

## 1. General

The distribution transformers are intended for use in outdoor distribution substations in conjunction with 33kV load break switches or cutout fuses and L.V distribution boxes, to be supplied separately.

The distribution transformers shall be supplied as specified hereafter complete and ready for installation and service after completion of the incoming and outgoing connections.

# 2. APPLICABLE STANDARDS:

#### Table No.3

IEC 60076	Power Transformers			
IEC 60137	Insulated Bushings for Alternating Voltages Above 1 kV			
IEC 60296	Unused mineral insulating oils for transformers and switchgear			

# 3. DESCRIPTIONS:

Three-phase, having two separate windings, oil immersed transformers, self – cooled, pole mounted transformers with top MV bushings and side LV bushings in cable boxes, and With MV and LV bushings inside cable boxes (side position) for outdoor bad mounted transformers—with the following technical data:

- Rated power on continuous operation in KVA: 630, 250, 630 KVA

- No load voltage ratio 33/0.415 for all items.

- Rated primary side voltage 33kV for item (1, 2, 3).

- Off - load tap changer with taps for -7.5—+7.5 % (2.5% each step)

- Rated low voltage 415 V for all items required.

- Vector group Dyn11

- With sealed tank.
- With pressure relief device
- With complete oil filling
- -With dial thermometer range (0-120) °C, for oil temperature indication with maximum temperature indicator. The indicator shall be visible from ground level.
- -With oil level gauge (unbreakable). The indicator shall be visible from ground level.
- -L.V. neutral point solidly earthed.
- -Temperature rise of windings at continuous maximum rating (C.M.R.) 55°C
- -Temperature rise top oil at C.M.R. 50°C

### 4. IMPEDANCE VOLTAGE

The impedance value shall be as specified in IEC 60076-5 (The acceptable value is equal to the minimum required of short circuit impedance which mention in IEC 60076-5)

## 5. Electrical Clearances

Clearances between life metal work and earth shall be not less than those in appropriate section as per applicable and related IEC standards.

### 6. TANKS

Each transformer shall be enclosed in a suitable stiffened welded steel tank of 3 mm thickness minimum, such that the transformer can be lifted and transported without permanent deformation or oil leakage (which shall be tested by a method approved by purchaser).

The lifting lugs shall be permanently attached and arranged on the tank to provide a distributed balanced lift in a vertical direction for the completely assembled transformer and shall be designed to provide a safety factor of 3 (assuming that a transformer is filled with oil). The safety factor is the ratio of the ultimate stress of the material used to the working stress. The working stress is the maximum combined stress developed in the lifting provision by the static load.

The construction shall employ wieldable steel of an approved grade and shall withstand an internal pressure of 30KN/m² without permanent deformation .

The transformer tank shall be vacuum-proof and suitable for outdoor installation.

Both, hermetically sealed transformers with fins or with conservator tanks are accepted.

The tank shall be equipped with standard accessories as follows:-

- Oil drain valve fitted at the lowest point of the tank at one of the narrow sides, with oil filling facility.
- Oil filter valve located near to the top of the tank.
- 2 earthing stainless steel M10 studs with nut and washer.
- Suitable no of lifting lugs.
- Suitable no of pulling lugs.
- 1 thermometer pocket.
- Rating plate and connection diagram.

All pipes, radiators, fins, or corrugations that are welded to the tank shall be externally welded.

Top cover shall be bolted type and fitted with neoprene cork seals suitable for specified temperatures. The cover and/or tank shall be in such a design and construction as to prevent the ingress of moisture, accumulation of rainwater, and gathering oil or air inside the tank during draining.

The gasket of the cover plates shall be at least 2mm thick, and shall be of two fold construction and of such type that its further use shall be possible after the tank has been opened. A solid earth connection between cover and tank shall be ensured.

### 7. JOINTS AND GASKETS

All joint faces shall be machined or ground and arranged to prevent the ingress of water or leakage of oil with a minimum of gasket surface exposed to the action of oil or air.

Oil resisting synthetic rubber gaskets are not permissible except where the synthetic rubber is used as a bonding medium for cork or similar material or where metal inserts are provided to limit compression.

# 8. PRESSURE RELIEF DEVICE

An approved pressure relief device of sufficient size for the rapid release of any pressure that may be generated in the tank and designed to operate at a static pressure lower than the hydraulic test pressure shall be provided.

If a diaphragm is used, it shall be of approved design and material and located above the maximum oil level.

A pressure-equalizing pipe shall be provided between the pressure relief device and the oil conservator.

# 9. MAGNETIC CIRCUITS

All magnetic circuits and associated parts shall be designed and constructed with due regard to all rating of transformers. The design shall be such as to avoid static discharges, development of short circuit paths internally or to the earthed clamping structure and the production of flux components normal to the plan of the lamination.

Cores shall be constructed from cold rolled grain oriented steel sheets. The flux density under the most onerous conditions in any part of the magnetic circuit shall not exceed 1.9 tesla.

### 10. WINDINGS

The windings shall be completely short-circuit proof.

The bidder shall offer Copper windings.

The winding and leads of all transformers shall be braced to withstand the shocks which may occur through rough handling and vibration during transport, switching and other transient service conditions.

Windings and connections shall be designed and manufactured to ensure that any gas will not be trapped in any part of the complete assembly. The material shall not contain any substance, composition or ingredient which may soften or cause abnormal shrinkage deformation or failure of the material or contamination of any filling medium under any service condition.

The winding clamping arrangement shall support all points of a coil and provide effective clamping pressure to ensure that each coil is compressed to its design length; all winding shall be supported back to rigid structural members. The windings shall be located in a manner which will ensure that they remain electrostatically balanced and there magnetic centers remain coincident under all conditions of operation.

# 11. Earthing

Two stainless steel M10 stud with nut and washer shall be provided. Suitable precaution shall also be taken to avoid corrosion attack on earthing facility.

All internal metal parts with the exception of the individual core laminations, core bolts and associated individual clamping plates shall be maintained at some fixed potential. The top main core clamping structure shall be connected to the tank body by a copper strap and the bottom main core clamping structure shall be earthed.

The magnetic circuit shall be earthed within the tank to the core clamping structure at one point only through removable bolted link employing captive fixing, placed in an accessible position beneath a labeled inspection opening in the tank cover.

Where coil clamping rings are of metal at earth potential, each ring shall be connected to the adjacent core clamping structure on the same side of the transformer as the earth connection to the magnetic circuit mentioned above where earthed screen are provided they shall be connected in the same manner.

# 12. OFF-LOAD TAP CHANGERS

Off-load tap changers shall be lockable 7 positions short circuited proof. They shall be manually operated while the transformer is de-energized by means of a special spindle; while the same should be equipped with Seven (7) Taps suitable for voltage changing from -7.5% to +7.5% of the rated voltage with a step of 2.5%, as follows:

Tap no.1	+7.5%	of rated voltage of secondary side.
Tap no.2	+5%	of rated voltage of secondary side.
Tap no.3	+2.5%	of rated voltage of secondary side.
Tap no.4	+0%	of rated voltage of secondary side.
Tap no.5	- 2.5%	of rated voltage of secondary side.
Tap no.6	- 5 %	of rated voltage of secondary side.
Tap no.7	-7.5%	of rated voltage of secondary side.

The design shall ensure that the tap selectors on all three phases operate simultaneously. An external operating handle shall be located on the cover, register plates clearly indicating tapping in use must be fixed to the external operating handle and provision shall be made for securing the switches in any working position to prevent operation by unauthorized persons.

# 13. TERMINAL BUSHING

# (I) General: -

Transformers bushings shall be **Porcelain** or silicone rubber type

Pole mounted transformers shall be provided with outdoor type bushing insulators for phases terminals. The bushings shall have a minimum creepage distance of 1188mm for 36 kV bushings, and to be provided with adjustable arcing horns.

All bushings shall meet the requirements of IEC 60137 or equivalent standards.

(II) Porcelain: - All porcelain shall be sound, free from defects and thoroughly Vitrified. The glaze must not be depended upon for insulation. The glaze shall be smooth and hard and shall cover completely all exposed parts of the

insulator. Outdoor insulators and fittings shall be unaffected by atmospheric conditions. All porcelain insulators shall be of the anti-fog type, designed to facilitate cleaning. Each porcelain bushing or insulator shall have a mark of manufacturer identification and the date of manufacturing.

(III) Silicone rubber: -The bushing should have long term mechanical and electrical behavior, and shall be manufactured form a high quality silicon rubber material in order to have excellent hydrophobic and ultraviolet resistant properties; thickness of silicon rubber should be stated.

The terminal bushings both for HV and LV shall be suitable to fit the aluminum conductor connection of 50 mm<sup>2</sup> to 200 mm<sup>2</sup> to the HV bushings, and the single core PVC, CU cable to the LV bushings, of the following sizes:

- 1 2(1x300mm) per phase + 1x300 mm per neutral for 250 KVA
- **2.** 3(1x300mm) per phase + 1(1x300mm) per neutral for 630KVA
  - For item No.2+3 the terminal HV bushing shall be suitable to fit clamp of the following cable:
  - 1. 1X300 mm2 33KV AL cable XLPE for 250 KVA.
  - 1X300 mm2 33KV AL cable XLPE for 630 KVA.
  - (III) **Phase identification**: Bushings shall be labeled by using indelible black color paint. Adhesive stickers are not accepted.
  - (IV) Cable box and bushings:
    - <u>-L.V bushings for all required transformers:</u> housed in a cable box, attached to the side of the transformer. The Cable Box should be fitted in a style guarantees cables' easy access from the bottom side. Cable box shall be suitable for cable sizes as mentioned above.
    - -33kv bushings: shall be outdoor type bushing insulators for phase terminals. The bushings shall have a minimum creepage distance of 1188mm for 36 kV bushings, and to be provided with adjustable arcing horns.
    - <u>33 KV bushings:</u> shall be indoor type bushing insulators for phase terminals. The bushings shall have a minimum creepage distance suitable for 33 kV bushings, and to be provided with adjustable arcing horns.

# 14. Noise and Vibration

The noise level emitted by a transformer at full load shall not exceed 62 dB. Measurement shall be as per applicable and related IEC standards.

# 15. Harmonic Suppression

Transformers shall be designed with particular attention to the suppression of harmonic voltage especially the third and the fifth harmonics and to minimize the determined effects resulting therefrom.

### 16. OIL

The insulating oil shall comply with IEC 60296 (for mineral oil) or IEC 61099 (for synthetic organic esters).

The fundamental requirements of the insulating oil are:

- The oil shall be PCB free.
- The oil must be clean, free from impurities such as suspended or solid matters, detrimental chemical compounds and water.
- -The oil must be chemically stable, i.e. its deterioration due to heating caused by oxygen at the service temperatures must be as low as possible.
- -The oil shall be uninhibited oil.

CHARACTERISTIC	REQUIREMENTS OF MINERAL OIL
- Density at 20°C g/ml	≤ 0.895
- Viscosity at 40 °C , cSt (mm2/s)	≤ 12
- Viscosity at-30 °C , cSt (mm2/s)	≤ 1800
- Flash point (closed cup) , °C	≥135
- Pour point	≤-40
- acidity value mg KOH /g	≤0.01
- Interfacial tension , mN/m	≥40
- Electric strength KV/2.5 mm	≥50
- Dielectric dissipation factor at 90 oc	≤5 x 10-3

The chemical composition and the physical characteristics of the Three copies of certified test reports of oil shall be submitted.

# 17. SURFACE TREATMENT

Transformer tank and its accessories shall be adequately protected against corrosion.

The tank and cover shall be designed in such a manner as to provide easy access to all external surfaces for painting.

Hot dip galvanizing followed by painting is the preferred method of base protection.

Hot dip galvanized and painting shall be as per applicable and related standards.

The color of the outer surface of the package shall be of RAL 7038.

# 18. LOSSES AND EVALUATION OF LOSSES

The tenderer shall state in the Schedule of Particulars and Guarantees the guaranteed values for component losses (i.e., no-load loss, load loss at C.M.R. of the total loss which shall be as low as is consistent with transport restrictions, reliability and economic use of materials.

Tenderers will be assessed on the basis of the capital cost plus Present Worth of guaranteed losses as follows:

$$C = Co + 4606 Fe + 1500 Cu$$

Where: C is the cost of assessment in JD's.

Co is the tender price of transformer in JD's.

Fe: the no load (core) loss expressed in kilowatts, as shown in the Schedule of Particulars.

Cu: the full load (winding) copper loss expressed in kilowatts, as shown in the Schedule of Particulars.

The acceptance of transformers yielding component losses higher than the guaranteed values shall be governed by either of the following:-

(a) Component losses in excess of guaranteed values but within the tolerance permitted under IEC 60076.

Transformers shall be accepted subject to full compliance with all other technical particulars including temperature rises at C.M.R. and subject to the Tenderer accepting the imposition of penalty charges for each KW or part

thereof component losses in excess of the guaranteed values, at the above loss evaluation rates, where the raise above the guaranteed loss value will be multiplied by 10 for penalty purpose.

(b) Component losses in excess of guaranteed values and exceeding the tolerance permitted under IEC 60076.

The acceptance of transformers shall be entirely at the discretion of purchaser, where in case of accepting those transformers, penalty charges for each KW or part thereof of component losses in excess of the guaranteed values, will be as in point (a) above.

In the event of transformers yielding component and total losses, which are either equal to or below the guaranteed values, the Tenderer will not be entailed to any premium in respect of reduction in losses below the guaranteed values.

## 19. INSPECTION AND TESTING

All transformers shall be subjected to inspection and testing in accordance with IEC 60076, and routine tests shall be carried out on each transformer free of charge, where test certificates should be provided along with each transformer. However, The purchaser may attend these tests on the purchaser cost as mentioned in prices schedule.

Inspection and Test Plan (ITP) should be submitted for the purchaser review & final approval at proper notice not less than 21 days prior to execute the Factory Acceptance Test (FAT).

Adequate notice shall be given when the transformers are ready for inspection or test and every facility shall be provided by the supplier to enable the Purchaser to carry out the necessary inspections and tests.

Before the transformers are packed or dispatched all tests called for shall have been successfully carried out, and a copy of test certificate should be sent to the purchaser for review and approval.

No passing of plant or materials by the Engineers shall relieve the Contractor from his responsibility.

The contractor shall also be responsible for proper carrying out of all test of work and of plant and material carried out or supplied by a sub-contractor to the same extent as if the work, were carried out or supplied by the contractor himself.

If, due to the Contract works and/or component materials not complying with these specifications further tests are necessary, the Contractor shall pay all additional costs which may be incurred in re-testing.

# The following tests shall be carried out: -

# a. TRANSFORMERS

# i. Routine Tests

All transformers shall be subjected to the following Routine tests in accordance with IEC 60076:

- 1- Measurement of winding resistance.
- 2- Measurement of voltage ratio and check of phase displacement.
- 3- Measurement of short-circuit impedance and load loss
- 4- No load loss and no load current.
- 5- Dielectric routine tests (IEC 60076-3).
- 6- Separate source voltage withstands.
- 7- Check of core and frame insulation for liquid immersed transformers with core or frame insulation.
- 8- Tests on off-load tap-changers, where appropriate.
- 9- Leak testing with pressure for liquid-immersed transformers (tightness test).

# ii. Type Tests

**1- Temperature-Rise Test:** The test shall be in accordance with IEC 60076-2 and shall be carried out on one transformer. The transformer shall be selected randomly by the purchaser.

Temperature-rise test shall be conducted on the tapping corresponding to the maximum losses.

Hot spot determination should be done on one transformer for the whole contract. The transformer shall be selected randomly by the purchaser.

**2-Impulse Voltage Withstand Test:** This shall be made on one transformer. The transformer shall be selected randomly by the purchaser, and shall include the following requirements:

The transformers shall have been subjected to the above routine tests prior to the impulse voltage tests and those transformers subjected to the temperature-rise test shall be impulse tested as soon as practicable thereafter.

The procedure shall be as required by IEC60076-3 the impulse test voltages being applied successively to each line terminal.

Negative polarity is to be used throughout the tests.

Oscillographic records of the applied voltage and neutral current and/or transferred voltage are to be taken and included in the records.

Films of the oscillographic records are to be made available to the engineer at the time of the tests for his examination.

Chopped Impulse should be applied as per IEC 60076-3.

External flashover of the bushings during the chopped wave tests is not permitted.

3- Measurement of dissipation factor (tan  $\delta$ ) of the insulation system capacitances.

# b. Special Tests

- 1. 9 asymmetrical shots and a 3 seconds symmetrical shot short circuit test certificate should be submitted according to IEC standard from one of the following testing laboratories (KEMA or CESI or IPH).
- 2. Dissipation factor.
- 3. Insulation resistance.
- 4. Capacitance.
- 5. Zero phase sequence impedance measurement.

These tests shall be in accordance with IEC 60076 and tests numbered (2-5) above, shall be carried out on 10% of transformers.

# c. MAGNETIC CIRCUIT

# **Routine Tests:**

After the transformer is tanked and completely assembled, a further test is to be applied at 500 V DC between the core and the earthed structural steel work to prove that the core is earthed through the removable link, at one point only as required in this specification.

# d. <u>COMPLETE OUTDOORS BUSHING shall be tested according to IEC</u> 60137

Routine test to include:-

- a. Voltage test.
- b. Power factor-voltage measurements.

# e. <u>TANKS</u>

**Routine Test** 

- a) Oil Leakage: All tanks, conservators and oil filled compartments which are subjected in service or during maintenance to oil pressure are to withstand without leakage, a hydraulic pressure test equal to 69 KN/m2 or the normal pressure plus 34 KN/m2 whichever is the greater, for 24 hr during which time no leakage or oil ingress into normally oil free space shall occur.
- b) Vacuum test and pressure test certificates should be submitted according to IEC standard from one of the following testing laboratories (KEMA or CESI or IPH).

#### f. OIL TEST

Samples of oil from each compartment and each separate consignment shall be tested and comply with the tests specified in the appropriate standard. In addition type tests should be submitted.

#### 20. Rating, Diagram and Property Plates

The following plates, of weather proof material, shall be fixed to the transformer in a visible position. The information listed below should be listed by etching, engraving or stamping:

- a. 'Property of the purchaser' statement.
- b. Manufacturer's name.
- c. Manufacturer's serial number.
- d. Year of manufacturing.
- e. IEC standard: 60076.
- f. Number of phases.
- g. Rated power.
- h. Rated frequency.
- i. Rated voltages.
- j. Rated currents.
- k. Vector group.
- 1. Impedance voltage at rated current.
- m. Resistance.
- n. Type of cooling.
- o. Total mass.
- p. Total mass of core and winding.
- q. Volume of oil.
- r. Connection diagram.
- s. Table of tapping voltages of tap positions.
- t. Ambient temperature.
- u. Tender number.
- v. Purchase order number.
- w. The purchaser stock number.

The above plates shall be of stainless steel or of other material capable of withstanding continuous outdoor service and should all be suitably mounted to prevent vibration, rattling or corrosion.

#### 21. PACKING

All transformers shall be packed and supported by all necessary packing aids and shipped by **top open containers**.

Careful packaging of all equipment is of the utmost importance and will be subject to inspection control, when the following aspects will be examined:-

- Package design.
- -Protection of material/equipment against damage by mechanical shock, moisture ingress and adverse atmospheric conditions.
- Material Quality.
- Case markings and coding.

#### 22. LIST OF EQUIPMENT

The following details are given in accordance to IEC 60076-1 Annex A.

- (1) The Particular Specification associated with this schedule, IEC 60076-1.
- (2) Separate Winding Transformer, 50Hz, Oil Immersed, ONAN, 33, with off circuit voltage control from -7.5% to + 7.5% of the rated voltage in steps of 2.5%, M.V. tapping. The tap changer shall be in the form of an off circuit tap selector switch.

(3) System highest voltage: M.V.: 36KV L.V.: 440V.

- (4) System neutral earthing: M.V. earthed by a resistor. L.V. solidly earthed.
- (5) Insulation Level: 170(33) KV.

To complete each equipment detailed in this schedule there shall be provided the necessary bushing, all auxiliary equipment, including any steel work, panel wiring, fuses, interlocking devices, holding down bolts, screens, guards, labels and all necessary sundries whether specified in detail or otherwise.

In all cases the current rating referred to are the minimum continuous site ratings required for the equipment in its final on site location.

The following items shall be provided for each transformer in additional to specific details for each transformer:-

- (a) Terminal configuration according to drawing no.
- (b) Temperature indicator with maximum recording pointer.
- (c) Rating and diagram plates to IEC60076.
- (d) Earth terminal.
- (e) Lifting fittings for the whole transformer.
- (f) Jacking lugs.

#### 23. DRAWINGS AND MAINTENANCE INSTRUCTIONS

Drawings for approval shall be submitted in duplicates as paper prints and, after having been approved, the contractor shall supply one copy at least.

The following are the drawings, which shall be submitted by the Bidder, for the transformers offered:-

- A. General arrangement of transformers showing high and low voltage sides, with fittings and attachments.
- B. End elevation of transformer.
- C. Plan of tank and terminal gear.
- D. General arrangement of tap equipment.
- E. Detail drawing of MV and LV bushings.
- F. Mounting arrangements.
- G. Lifting arrangements.
- H. Details of filling and draining valves.
- I. Details of cable clamps.
- J. Type test certificates.

The following is a list of drawings to be submitted by the contractor for approval within one month from the Commencement Date or such other period as may be agreed with the Purchaser: -

a) Drawings corresponding to all drawings submitted by the supplier with his Tender.

- b) Outline, general arrangement, sectional and detail drawings of each transformer.
- c) Drawings showing the construction of the transformer tank, tank cover and terminal arrangements with details of all accessories.
- d) Diagram of connections of the transformer, showing the polarity of the windings.
- e) Details of cable boxes and fittings
- f) Instruments scales.
- g) All catalogs, manuals, etc of the transformers and its apparatus.

#### MAINTENANCE and OPERATION INSTRUCTIONS

Before the specified completion date of material delivery, the Supplier shall submit maintenance instructions, and operation booklet.

#### 24. PAINTING, GALVANIZING AND WELDING PROCEDURES:

The painting should be **electrostatic** painting.

The above mentioned producers should be submitted with the offer.

#### **25.IDECO REQUARMENTS**

- a. The certificate of withstand short circuit test must be provide with the offer for each transformer had a different capacity (VA), different voltage ratio and different construction from one of the following testing laboratories (KEMA or CESI or IPH).
- b. The Preference for the bidder who is committed with ideco requirements.

### Schedule No. (1).

## TECHNICAL PARTICULARS AND GUARANTEES DISTRIBUTION TRANSFORMERS

The tenderer shall complete this schedule, and the particulars and guarantees will be binding on the contractor.

REQUIREMENTS	Unit	Data for Item (1)	Data for Item (2)
Maximum continuous site rating (ONAN) Nominal	<b>3</b> 1	630	250
transformer rating at principal tapping as in SEC	KVA		
Number of phases			
Number of windings			
Winding conductor material (Cu)			
Normal ratio of transformation	KV		
Frequency	Hz		
Type of cooling	112		
Type of cooling  Type of designation (Pole mounted/ ground			
mounted)			
Vector group reference IEC 60076			
Type of transformation ratio control.			
Range of transformation ratio MV/LV	%		
Trange of transformation ratio wiv/Ev	70		
Size of transformation ratio steps.	%		
·			
Gland for each cable size			
Impedance at 75 °C on principal tapping	%		
Maximum flux density in core at normal voltage	Т		
and frequency			
Type of core steel			
Winding conductor material (Cu or Al) for MV			
Winding conductor material (Cu or Al) for LV			
Winding type/group for MV			
Winding type/group for LV			
Winding resistance at 20°C per phase at principal	Ohm		
tap for MV			
Winding resistance at 20°C per phase at principal	Ohm		
tap for LV			
Material of winding insulation:			
Grade and Type of core			
Thickness of laminations	mm.		
Insulation of laminations			
Short circuit current-level for 3 seconds	KA		
No load losses at normal ratio and 50 Hz	KW (max)		
Load losses at CMR,75 °C and normal ratio	KW (max)		
Load loanes at CMD, 75°C and tanning basing	1/\/\ (may\)		
Load losses at CMR, 75°C and tapping having	KW (max)		
highest losses.			

Magnetizing current	Α		
-Efficiency at :-			
Full load unity P.F. %			
Full load 0.8 P.F. %			
3/4 Full load unity P.F %			
3/4 Full load 0.8 P.F. %			
1/2 Full load unity P.F %			
1/2 Full load 0.8 P.F. %			
REQUIREMENTS	Unit	Data for Item (1)	Data for Item (2)
Nominal rated current at MV	Α		
Nominal rated current at LV	Α		
R.M.S. Exciting current at normal voltage on	Α		
principal tap (H.V-side)			
-R.M.S Fundamental current	Α		
-R.M.S 3rd harmonic current	Α		
-R.M.S 5th harmonic current	Α		
-R.M.S 7th harmonic current	Α		
Maximum current density In windings at CMR on			
Normal tap :-			
(a) M.V windings	A/mm <sup>2</sup>		
(b) L.V windings	A/mm <sup>2</sup>		
Impedance voltage at 75°C (at CMR of lower			
voltage winding) between HV and LV winding.			
Temperature rise of windings at CMR above	°C		
specified design ambient temp.			
Temperature rise of top oil at CMR above	°C		
specified design ambient			
Max hot spot temperature rise	°C		
Temperature rise due to short circuit current (3 s)	°C		
after full load (above hottest spot)			
Temperature rise of core at CMR and rated	°C		
voltage			
EMERGENCY LOADING			•
Max duration at 40°C of over loading of rating	In minutes		
133%			
Max duration at 40°C of over loading of rating	In minutes		
150%			
Impulse withstand voltage of complete	kV (peak)		
transformer (BIL):-	,		
Phase connections			
(I) 1.2 /50 Microsecond full wave	kV (peak)		
.,	,		
(II) 1.2 /50 Microsecond chopped wave	kV (peak)		
Separate-source power frequency test voltage for	, ,		
MV winding:	kVrms		
Separate-source power frequency test voltage for			
LV winding:	kVrms		
Induced overvoltage withstand test for MV at	kVrms at		

testing frequency (frequency to be mentioned)	Hz	
Induced overvoltage withstand test for LV at		
testing frequency (frequency to be mentioned)	Hz	
Producer		
Type and trade mark		
Applicable standard		
Minimum flashpoint	°C	
Pour point	°C	
Viscosity at 20°C	m²/s	
Max dielectric strength for 1 min	KV	
Dielectric factor		
Acidity (neutralization value)	mg/KOH/g	
Maximum sludge formation	%	
Maximum acidity development in sludge	mg/KOH/g	
Moisture content	ppm	
NOISE LEVEL	dB	
DEGREE OF PROTECTION:	IP	
TRANSFORMER TANK :		
Steady load at 40°C ambient by considering	KVA	
effect of solar radiation		
Maximum withstand pressure of the tank for 24	kN/m²	
hours without leakage		
Thickness of Sides	mm.	
Thickness of Bottom	mm.	
Thickness of Cooling tubes	mm.	
Total oil required	Liters	

DECLUDEMENTS	l loit	Data for Itam (1)	Data for Itam (2)
REQUIREMENTS	Unit	Data for Item (1)	Data for Item (2)
MV BUSHING INSULATORS			
Make			
Type			
Insulator material			
Voltage rating	K۷		
Current rating	Amps		
Length of insulator (Overall)	mm.		
Weight of insulator	Kg		
Total creepage distance of bushing	mm.		
Protected creepage distance of bushing	mm.		
Puncture voltage	KV		
Impulse flashover voltage	KVp		
Dry power frequency flashover voltage	KVrms		
Wet power frequency flashover voltage	KVrms		
Impulse withstand voltage (1.2/50			
microsecond full wave):	KVp		

(A) Positive	
(B) Negative	
Dry withstand power frequency voltage	10/1000
without arcing horns	KVrms
Wet withstand power Frequency voltage	
without arcing horns	KVrms
Routine power frequency test voltage (1	
minute)	KV
Maximum diameter of bushing when	
passing through tank top	mm.
Penetration of bushing into tank measured	
from bottom of fixing flange	mm.
LV BUSHING INSULATORS	
Make	
Type	
Voltage rating	KV
Current rating	Amps
Length of insulator (Overall)	mm.
Weight of insulator	Kg
Total creepage distance of bushing	mm.
Impulse withstand voltage	KVp
Dry withstand power frequency voltage	KVrms
Wet withstand power Frequency voltage	KVrms
DIMENSIONS AND MASSES	
Overall dimensions of complete	
transformer:-	
Length	mm.
Width	mm.
Height	mm.
Mass of core and winding	Kg
Mass of tank	Kg
Mass of oil	Kg
Total mass of transformer ready for service	Kg
Shipping mass	Kg
Manufacturer Name And Place	
Testing Authority Name And Place	

REQUIREMENTS	Unit	Data for Item (3)
Maximum continuous site rating (ONAN) Nominal		630
transformer rating at principal tapping as in SEC	KVA	
Number of phases		
Number of windings		
Winding conductor material (Cu)		
Normal ratio of transformation	KV	
Frequency	Hz	
Type of cooling		
Type of designation (Pole mounted/ ground		
mounted)		
Vector group reference IEC 60076		
Type of transformation ratio control.		
Range of transformation ratio MV/LV	%	
Size of transformation ratio steps.	%	
Gland for each cable size		
Impedance at 75 °C on principal tapping	%	
Maximum flux density in core at normal voltage	Т	
and frequency		
Type of core steel		
Winding conductor material (Cu or Al) for MV		
Winding conductor material (Cu or Al) for LV		
Winding type/group for MV		
Winding type/group for LV		
Winding resistance at 20°C per phase at principal	Ohm	
tap for MV		
Winding resistance at 20°C per phase at principal tap for LV	Ohm	
Material of winding insulation:		
Grade and Type of core		
Thickness of laminations	mm.	
Insulation of laminations		
Short circuit current-level for 3 seconds	KA	
No load losses at normal ratio and 50 Hz	KW (max)	
Load losses at CMR,75 °C and normal ratio	KW (max)	
	1111 (1116)	
Load losses at CMR, 75°C and tapping having		
highest losses.	KW (max)	
Magnetizing current	A	
-Efficiency at :-		
Full load unity P.F. %		
Full load 0.8 P.F. %		
3/4 Full load unity P.F %		
3/4 Full load 0.8 P.F. %		
1/2 Full load unity P.F %		
1/2 Full load 0.8 P.F. %		

REQUIREMENTS	Unit	Data for Item (3)
Nominal rated current at MV	А	` ,
Nominal rated current at LV	А	
R.M.S. Exciting current at normal voltage on principal tap (H.V-side)	Α	
-R.M.S Fundamental current	А	
-R.M.S 3rd harmonic current	A	
-R.M.S 5th harmonic current	A	
-R.M.S 7th harmonic current	Α	
Maximum current density In windings at CMR on Normal tap :-		
(a) M.V windings	A/mm <sup>2</sup>	
(b) L.V windings	A/mm <sup>2</sup>	
Impedance voltage at 75°C (at CMR of lower voltage winding) between HV and LV winding.		
Temperature rise of windings at CMR above specified design ambient temp.	°C	
Temperature rise of top oil at CMR above specified design ambient	°C	
Max hot spot temperature rise	°C	
Temperature rise due to short circuit current (3 s) after full load (above hottest spot)	°C	
Temperature rise of core at CMR and rated voltage	°C	
EMERGENCY LOADING		
Max duration at 40°C of over loading of rating 133%	In minutes	
Max duration at 40°C of over loading of rating 150%	In minutes	
Impulse withstand voltage of complete transformer (BIL):-	kV (peak)	
Phase connections		
(I) 1.2 /50 Microsecond full wave	kV (peak)	
(II) 1.2 /50 Microsecond chopped wave	kV (peak)	
Separate-source power frequency test voltage for MV winding:	kVrms	
Separate-source power frequency test voltage for LV winding:	kVrms	
Induced overvoltage withstand test for MV at	kVrms at	
testing frequency (frequency to be mentioned)	Hz	
Induced overvoltage withstand test for LV at	kVrms at	
testing frequency (frequency to be mentioned)	Hz	
Producer		
Type and trade mark		
Applicable standard		
Minimum flashpoint	°C	

Pour point	°C	
Viscosity at 20°C	m²/s	
Max dielectric strength for 1 min	KV	
Dielectric factor		
Acidity (neutralization value)	mg/KOH/g	
Maximum sludge formation	%	
Maximum acidity development in sludge	mg/KOH/g	
Moisture content	ppm	
NOISE LEVEL	dB	
DEGREE OF PROTECTION:	IP	
TRANSFORMER TANK:		
Steady load at 40°C ambient by considering	KVA	
effect of solar radiation		
Maximum withstand pressure of the tank for 24	kN/m²	
hours without leakage		
Thickness of Sides	mm.	
Thickness of Bottom	mm.	
Thickness of Cooling tubes	mm.	
Total oil required	Liters	

REQUIREMENTS	Unit	Data for Item (3)
Make		
Туре		
Insulator material		
Voltage rating	KV	
Current rating	Amps	
Length of insulator (Overall)	mm.	
Weight of insulator	Kg	
Total creepage distance of bushing	mm.	
Protected creepage distance of bushing	mm.	
Puncture voltage	KV	
Impulse flashover voltage	KVp	
Dry power frequency flashover voltage	KVrms	
Wet power frequency flashover voltage	KVrms	
Impulse withstand voltage (1.2/50 microsecond full wave):		
(A) Positive (B) Negative	KVp	
Dry withstand power frequency voltage without arcing horns	KVrms	
Wet withstand power Frequency voltage without arcing horns	KVrms	
Routine power frequency test voltage (1		

minute)	KV
Maximum diameter of bushing when	
passing through tank top	mm.
Penetration of bushing into tank measured	
from bottom of fixing flange	mm.
Make	
Type	
Voltage rating	KV
Current rating	Amps
Length of insulator (Overall)	mm.
Weight of insulator	Kg
Total creepage distance of bushing	mm.
Impulse withstand voltage	KVp
Dry withstand power frequency voltage	KVrms
Wet withstand power Frequency voltage	KVrms
Overall dimensions of complete	
transformer:-	
Length	mm.
Width	mm.
Height	mm.
Mass of core and winding	Kg
Mass of tank	Kg
Mass of oil	Kg
Total mass of transformer ready for service	Kg
Shipping mass	Kg
Manufacturer Name And Place	
Testing Authority Name And Place	

#### **Special Requirements**

The Below mentioned requirements shall have a precedence in all of the preceding specifications and requirements, and the tenderer is kindly requested to strictly follow.

- 1. The Tender the tenderer shall submit three offers for purchasing methods, and the definition of those methods please see page (6) in general conditions.
- **2.** The manufacturer has **shall** print on suitable metal name plate for the required materials the following message :
  - IDECO Contract No. (15/2020). Purchase order No. ( ).
  - Stock code as seen in the invitation to tender table no.2 page (3).
  - manufacture name
  - manufacturing date
  - Serial number
  - Country of origin.
  - QR code contains the above message.
- 3. Maintenance instructions: Where the equipment / materials supplied are subject to maintenance during service the manufacturer shall submit for approval a draft of the recommended maintenance instructions. After approval the supplier shall supply any further copies required by the Engineer. These maintenance instructions shall be provided before the taking over of any part of the equipment.
- **4.** Catalogues: a set of the manufacturer's catalogues shall be attached to the tender.
- **5.** The manufacturer shall to submit with his offer reference list for his product for the last ten years ago.
- **6.** The required materials in each purchase order shall be inspected by two IDECO's engineers in the country of origin of the required materials, and all related Inspection Costs (Visa, Air Tickets, Hotel, Accommodation, Transportation, etc.) of at least (2) IDECO representative engineers, at the manufacturer factory, to ensure the proper handling and operation of the supplied materials shall be borne by the contractor.
- 7. When the visit to a factory for evaluation purposes before signing the agreement is required, the tenderer must do all necessary arrangement for this visit; the related cost of visit by IDECO team will be borne by the manufacturer.
- **8.** The material safety data sheet (MSDS) of all equipment / materials is required to be submitted with the offer.
- **9.** The tenderer shall consider the USD as the only accepted reference currency under this contract.
- **10.Operating and maintenance instructions:** Four (4) copies in English of running and maintenance instructions shall be supplied covering all parts of the material and these shall be submitted three months prior to the completion date.
  - 1. **Spare Parts**: The contractor shall, upon request, deliver spare parts subject to wear and tear, and others recommended by the contractor as necessary for three years of continuous operation of the material. In the schedule of spares the contractor shall state the spares

which he recommends, bearing in mind the remoteness of the site, with individual quantities, C&F prices. A separate list of spares which the contractor considers necessary for three years maintenance of the material shall be included in the schedule of the spares. The contractor shall state in the schedule of the deliveries the period required by him for the delivery of the spares from the date of the purchaser's order. The prices of spare parts shall be fixed during the whole period of the contract up to the date of the taking-over certificate, if any spares should be ordered after that date the price might be adjusted. The purchaser may order all or any of the spares so recommended at his discretion. All spares supplied shall be strictly interchangeable with the parts for which they are intended to be replacements and shall be treated and packed for long storage under the climatic conditions prevailing at the site. Each spare shall be clearly marked or labeled on the outside of its packing with its description and purpose and, when more than one spare is packed in a single case or other container, a general description of its contents is to be shown on the outside of such case or container and a detailed list enclosed inside. All cases, containers and other packages must be suitably marked and numbered for purposes of identification.

- 2. Tools and appliances: The following tools and appliances may be purchased under this contract. The contractor's full list with itemized prices and details shall be given:
  - a. Three sets of standard tools, spanners, etc., of appropriate size and type to fit each nut and bolt on the whole of the material and equipment covered by the contract.
  - b. Three sets of any special tools or gauges required for the normal maintenance of the material and equipment covered by the contract.
  - c. Three sets of any special lifting and handling appliances, at each substation required for the normal maintenance of the material and equipment covered by the contract.
  - d. Three sets of any special tools or gauges or other test equipment required for the dismantling, reassemble, checking or adjustment (but not normal maintenance) of the whole of the material and equipment covered by the contract. Each set of tools and appliances under categories (A) and (B) above together with the smaller items under (C) and (D) above shall be suitably arranged in fitted boxes of mild steel construction, the number of boxes being determined in relation to the layout of the material and equipment in question. If the weight of any box and its contents should be such that it cannot conveniently be carried, it shall be supported on steerable rubber tire wheels. Each box shall be fitted with a lock and shall be painted black and clearly marked in white letters with the name of the material or equipment for which the tools and appliances therein are intended.
- **11.**PCB'S test shall be conducted in IDECO laboratory, and based on the test results, the required transformers will be approved or not.
- **12.** The contractor shall have calibrated equipment's by authorized party for inspection purposes.
- **13.** The technical drawing approval shall be submitted during 7 days from order letter date, any delay in this period from contractor side, the delivery period will start after 7 days from order letter. (In case the contractor offered delivery period from order letter date and drawing approval).

- 14. The purchaser has the complete right to reply on contractor's clarifications during 7 days, and during this period there is not exemption from incurred penalty for the event.
- **15.** After Awarding Tenders, winner tenderer will be assessment according to quality of good, delivery period, service after sale, and assessment weight will be considered in coming tenders' evaluation.
- **16.** Euro one certificate shall be submitted during clearance process, in case the country of origin of the required materials from Europe countries.
- **17.** The manufacturer shall print 128 c bar code in each item as below shape, and bar code character will be submitted to manufacturer at awarding date.



# Schedule No. 2 Departures from Technical Specifications and / or Special Requirements ➤ The Tenderer is kindly requested to fill in the below schedule if applicable:

(Departures)

No.	Required Specification	Departure
Re	marks:  *  *	
	<b>*</b>	
		Signed: On behalf of:
		Address:
		Date2020

### Schedule No. 3 Manufacturing and Delivery

- ✓ Below schedule shall be completed by the tenderer and the periods entered shall be binding on the contractor, All periods entered below are to be in weeks and relate to the placing of the contract, Material shall be shipped uniformly throughout the contract.
- √ The tenderer shall determine the minimum value per each purchase order, and determine the number of times purchase orders can be delivered within two years. And the priority will be given to tenderer who minimize the purchase order value and maximize the number of times of purchase orders.

Schedule No. 4 (Manufacturing & Delivery)

Required	<u>Data for</u> <u>item (1)</u> rated 630 kva 33/0.415 kv	Data for item (2) rated 250 kva 33/0.415 kv Cable box	Data for item (3) rated 630 kva 33/0.415 kv Cable box
Manufacturer			
Manufacturing Place			
Inspection Place			
No. of purchase orders within 2 years			
Manufacturing Period and Delivery ( week) to from purchase order date			
Minimum value per each purchase order. Based on copper price LME =6500 USD/MT (USD)			
Maximum value per each purchase order. Based on copper price LME =6500 USD/MT (USD)			

### Schedule No. 4 <u>LIST OF TEST CERTIFICATES FOR TRANSFORMERS</u>

Tenderers shall provide the information required below for the test certificates covering the equipment offered to IEC recommendations & shall be submitted with the tender.

Failure to provide copies of test certificates/reports will result in rejection of the tender.

TYPE AND SPECIAL TEST MADE ON IDENTICAL DESIGNS OF EQUIPMENT TO THOSE OFFERED	CERTIFICATE NO.	CERTIFICATE AUTHORITY

#### Schedule No. 5

#### **SERVICE EXPERIENCE OF TRANSFORMERS**

Tenderers shall provide the information required below for the service experience of transformers, where separate list for AL and Cu winding should be submitted.

CUSTOMER	NO. OF UNITS SUPPLY	RATED POWER & VOLTAGE	NO. OF YEARS IN SERVICE

Note: A list of end user certificates must be submitted with the tender.

#### Schedule No. 6

#### **COST OF TYPE AND SPECIAL TESTS**

<b>Currency:</b>	
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The contractor shall quote bellow for every type and special test mentioned in this specification, IDECO have a right to choose one or more test or not choose any test.

No.	Kind of test	In manufacturers laboratories (or other accepted, but should be specified)
1	temperature rise test	
2	impulse voltage withstand test	
3	Dielectric type tests	
4	Determination of sound level	
5	Rate short circuit test	
6	cooling for which a guaranteed sound level is specified	
7	Measurement of no-load loss and current at 90 % and 110 % of rated voltage	
8	measurement of dissipation factor (tan d)	
9	short circuit test	
10	Dielectric special tests	
11	Winding hot-spot temperature-rise measurements	
12	Determination of capacitances windings-to-earth, and between windings.	
13	Determination of transient voltage transfer characteristics	
14	Measurement of zero-sequence impedance(s) on three-phase transformers	
15	Measurement of D.C insulation resistance each winding to earth and between windings.	
16	Vacuum deflection test	
17	Pressure deflection test	
18	Vacuum tightness test on site.	
19	Measurement of frequency response	
20	Check of external coating	
21	Measurement of dissolved gasses in dielectric liquid	
22	Mechanical test or assessment of tank for suitability for transport	
23	Determination of weight with transformer arranged of transport.	

<sup>\*</sup> All Tenderers shall complete the above schedule.

#### PRICE ADJUSTMENT FORMULA for CU windings

#### LME PRICE ADJUSTMENT FORMULA:

Final Price = Quoted Price + [(CLME (CU) at awarding dated -BLME (CU) quoted price) x V.F (CU)].

#### Where:

- 1. **P0**: Quoted Price per unit, based on the basic price of copper = **6500** USD/MT.
- 2. **CLME**: Current copper Price as Per London Metal Exchange Closing Price at awarding date of Purchase Order (**Cash Seller**).
- 3. **BLME**: the basic price of Copper = **6500** USD/MT.
- 4. V. F: Variation factor for copper.

#### **Schedule 7: PRICE VARIATION DATA**

Item No.	Material Description	Copper Weight of transformer (kg)	Variation Factor For transformer V.F
1	Rated 33/0.415kV, 630 kVA, outdoor distribution Transformer, hermetically sealed.		
2	Rated 33/0.415kV, 250 kVA, outdoor distribution Transformer, hermetically sealed, cable box from opposite side.		
3	Rated 33/0.415kV, 630 kVA, outdoor distribution Transformer, hermetically sealed, cable box from opposite sides.		

### Schedule No. 8 option (1) short term payment Price Summary and Delivery for CU WINDINGS

- The tenderer shall enter in the appropriate columns of this schedule the prices at which each item will be supplied. Prices shall include shipment and delivery to the selected destination seen below based on the following selected transportation obligations.
- ➤ In this option, the tenderer shall agree with short term payment, the payment (for each shipment) will be released during one month from receipt the required materials in IDECO Stores.
- Delivery period shall be expressed <u>in weeks</u>, and is recommended to start from the date of the order letter, and transportation obligations shall be indicated by putting a tick at the proper following choice:

( ) CFR - Aqaba Port ( ) CPT- Amman Customs ( ) CPT- IDECO Stores

- ➤ The tenderer shall fill in the below tables for quoted price (unit price), based on the basic price of copper = **6500** USD per metric ton as per London metal exchange.
- ➤ IDECO Company is not exempted from custom duties, sales taxes, import license fees and any other tariffs.
- ➤ The suppliers shall consider the following equation for final price according to LME. Final Price = Quoted Price + [(CLME (CU) at awarding dated BLME (CU) quoted price) x V.F (CU)].
- > The tenderer shall determine the copper weight of transformer in Kg.
- The tenderer shall determine the variation factor for copper (kg/1000).
- > The tender shall consider the USD as the only accepted reference currency under this contract.

No.	QTY	Material	Variation Factor ( V.F) Kg/1000	Unit Price (quoted price) Based on copper LME= 6500 USD/MT USD	Total Price Based on copper LME= 6500 USD/MT USD
1	40	Rated 33/0.415kV, 630 kVA, outdoor distribution transformer, hermetically sealed.			
2	7	Rated 33/0.415kV, 250 kVA, outdoor distribution transformer, hermetically sealed cable box from opposite side.			
3	11	Rated 33/0.415kV, 630 kVA, outdoor distribution transformer, hermetically sealed cable box from opposite sides.			

Name(s) and Address of Tenderer:

Tele / Fax:

Signature:

Answer Back Code:
Position of Signatory

### Schedule No. 8 option (2) long term payment Price Summary and Delivery for CU WINDINGS

- The tenderer shall enter in the appropriate columns of this schedule the prices at which each item will be supplied. Prices shall include shipment and delivery to the selected destination seen below based on the following selected transportation obligations.
- ➤ In this option, the tenderer shall agree with long term payment, the payment (for each purchase order) will be released by four times as follows: first payment will be 25% after receipt materials, second payment 25% after one year from receipt material, third payment 25% after two year from receipt material, fourth payment 25% after three year from receipt material.
- Delivery period shall be expressed <u>in weeks</u>, and is recommended to start from the date of the order letter, and transportation obligations shall be indicated by putting a tick at the proper following choice:

( ) CFR - Aqaba Port ( ) CPT- Amman Customs ( ) CPT- IDECO Stores

- ➤ The tenderer shall fill in the below tables for quoted price (unit price), based on the basic price of copper = **6500** USD per metric ton as per London metal exchange.
- ➤ IDECO Company is not exempted from custom duties, sales taxes, import license fees and any other tariffs.
- ➤ The suppliers shall consider the following equation for final price according to LME. Final Price = Quoted Price + [(CLME (CU) at awarding dated BLME (CU) quoted price) x V.F (CU)].
- > The tenderer shall determine the copper weight of transformer in Kg.
- The tenderer shall determine the variation factor for copper (kg/1000).
- > The tender shall consider the USD as the only accepted reference currency under this contract.

No.	QTY	Material	Variation Factor ( V.F) Kg/1000	Unit Price (quoted price) Based on copper LME= 6500 USD/MT USD	Total Price Based on copper LME= 6500 USD/MT USD
1	40	Rated 33/0.415kV, 630 kVA, outdoor distribution transformer, hermetically sealed.			
2	7	Rated 33/0.415kV, 250 kVA, outdoor distribution transformer, hermetically sealed cable box from opposite side.			
3	11	Rated 33/0.415kV, 630 kVA, outdoor distribution transformer, hermetically sealed cable box from opposite sides.			
Total	Contra	act Price in Currency of			

Name(s) of Sureties
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Name(s) and Address of Tenderer:

Tele / Fax:

Answer Back Code:
Signature:

Position of Signatory

### Schedule No. 8 option (3) purchase commitment Price Summary and Delivery for CU WINDINGS

- The tenderer shall enter in the appropriate columns of this schedule the prices at which each item will be supplied. Prices shall include shipment and delivery to the selected destination seen below based on the following selected transportation obligations.
  - > Purchase commitment : General Conditions
    - 1. The Agreement between purchaser and contractor shall remain valid for on-call for a period of two years from the Date of signing the contract (agreement), and/or the expiration of the total contract quantity, whichever first occurs.
    - 2. The required quantity under this tender shall be partially ordered in accordance with number of purchase orders, and The Purchaser has the right to order all the required quantity, and/or part thereof as a numbers of purchase order during number of purchase orders without objection from the Contractor during Agreement validity.
    - 3. This Agreement is a commitment to purchase (only the required quantity in purchase order will be issued) by the buyer during validity of this agreement.
    - 4. IDECO has the complete right to keep (store) the required quantity of each purchase order in manufacturer's store for period (1-12) months from the date of finished manufacturing with fixed price.
    - 5. The offered price shall be fixed (as adjusted on awarding date based on closing price for LME (CU)) during validity of this agreement.
    - 6. The payment for each order will be released during one month from material receiving in IDECO stores.
    - 7. Delivery period shall be expressed in weeks, and is recommended to start from the date of the order letter, and transportation obligations shall be indicated by putting a tick at the proper following choice:
    - ( ) CFR Aqaba Port ( ) CPT- Amman Customs ( ) CPT- IDECO Stores
- The tenderer shall fill in the below tables for quoted price (unit price), based on the basic price of copper = 6500 USD per metric ton as per London metal exchange.
- ➤ IDECO Company is not exempted from custom duties, sales taxes, import license fees and any other tariffs.

- ➤ The suppliers shall consider the following equation for final price according to LME. Final Price = Quoted Price + [(CLME (CU) at awarding dated BLME (CU) quoted price) x V.F (CU)].
- > The tenderer shall determine the copper weight of transformer in Kg.
- The tenderer shall determine the variation factor for copper (kg/1000).
- > The tender shall consider the USD as the only accepted reference currency under this contract.

QTY	Material	Variation Factor ( V.F) Kg/1000	Unit Price (quoted price) Based on copper LME= 6500 USD/MT USD	Total Price Based on copper LME= 6500 USD/MT USD
40	Rated 33/0.415kV, 630 kVA, outdoor distribution transformer, hermetically sealed.			
7	Rated 33/0.415kV, 250 kVA, outdoor distribution transformer, hermetically sealed cable box from opposite side.			
11	Rated 33/0.415kV, 630 kVA, outdoor distribution transformer, hermetically sealed cable box from opposite sides.			
	40 7 11	Rated 33/0.415kV, 630 kVA, outdoor distribution transformer, hermetically sealed.  Rated 33/0.415kV, 250 kVA, outdoor distribution transformer, hermetically sealed cable box from opposite side.  Rated 33/0.415kV, 630 kVA, outdoor distribution transformer, hermetically sealed cable box from opposite sides.	Pactor (V.F) Kg/1000  Rated 33/0.415kV, 630 kVA, outdoor distribution transformer, hermetically sealed.  Rated 33/0.415kV, 250 kVA, outdoor distribution transformer, hermetically sealed cable box from opposite side.  Rated 33/0.415kV, 630 kVA, outdoor distribution transformer, hermetically sealed cable transformer, hermetically sealed cable	Material  Materi

Name(s) of Sureties:	Name(s	) of	Sureties:
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Name(s) and Address of Tenderer:

Tele / Fax:

Signature:

Answer Back Code:

Position of Signatory

### Schedule No. 9 Price summary for spare parts

- > The Tenderer shall enter in the appropriate columns of this schedule the prices at which each spare part will be supplied. Prices shall include shipment and delivery to the selected destination.
- ➤ IDECO Company has the complete right to award all the required spare parts or partial of required quantity or none of them.

#### Schedule No. 9

No.	QNTY (pcs)	Spare parts	Delivery Period	Currency	Unit Price	Total Price
	33 KV	Bushing with rod for				
1.1	5	630 KVA transformer				
2.1	5	250 KVA transformer				
3.1	5	630 KVA transformer				
	0.415 K	V Bushing with rod for				
1.2	5	630 KV transformer				
2.2	5	250 KV transformer				
3.2	5	630 KV transformer				
	Com	olete set of gasket for				
1.3	5	Rated 33/0.415kV, 630 kVA.				
2.3	5	Rated 33/0.415kV, 250 kVA.				
3.3	5	Rated 33/0.415kV, 630 kVA.				
	C	oil level gauge for				
1.4	5	Rated 33/0.415kV, 630 kVA.				
2.4	5	Rated 33/0.415kV, 250 kVA.				
3.4	5	Rated 33/0.415kV, 630 kVA.				
	Oil ten	nperature indicator for				
1.5	5	Rated 33/0.415kV, 630 kVA.				
2.5	5	Rated 33/0.415kV, 250 kVA.				
3.5	5	Rated 33/0.415kV, 630 kVA.				
	<u>T</u>	otal Price for spare parts				

#### **Inspection Details**

> In case of foreign material origin, and inspection of material is required, the bidder shall fill the following table.

#### Schedule No. 10

NO.	Description	
1	Inspection cost in the country of	
	origin per engineer. (If not	
	included in the main offer).	
2	Air flight class	
3	Transportation cost during the	
	period of inspection	
	(Included/not included)	
4	Residential Hotel Rank	
5	Daily meals (included/Not	
	included), Number of meals.	

#### **Main Offer details**

> The bidder shall fill the following table otherwise his offer may be not considered.

#### **Schedule No.11**

NO.	Description	
1	Value and currency of Bid Bond	
2	Payment method (open account/ LC/ Other)	
3	Offer validity	