

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



## Call off contract NO. (81/2015)

## Two years call - off contract for supply of

Single phase electronic kilowatt-hour meter (10-80) A, 230v for four-rate-tariff application.

### Tenderer:

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





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### Invitation to call - off contract For Second Time NO. (81/2015)

### Dear Sir:

You are kindly requested to tender for the supply of the below mentioned materials as per the quantities and technical specifications enclosed herewith on call-off basis for a period of two (2) years 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 <u>February 3, 2016.</u>

All bids must be accompanied with a Bid Bond of not less than 5% of the highest alternative offered price, 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 **February 3, 2016.** 

Table 2

Item No.	Quantity (PCS)	Material Description	Stock Code
1	90,000	Single phase Electronic kilowatt-hour meter (10-80) A, 230V for four-rate tariff application.	6625-2158

### TENDER DOCUMENT COST = 350 JD.

### **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 equipment 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 occurs first.
- 3.6. The purchaser is not obligated to purchase all the required quantity during agreement validity and the purchaser has the complete right to invite for a new tender for supply of electrical meters during agreement validity.
- **3.7.** 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.
- 3.8. 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.
- 3.9. 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.

- 3.10. 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.
- 3.11. IDECO has a complete right to substitute certain items instead of other items by increasing or decreasing the required quantity in the contract.
- **3.12. 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. Drawings and Descriptive Documents

- **3.1.** 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.
- 3.2. 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.
  - a. If it is expressly so agreed, or
  - **b.** 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.
- 3.3. 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.
- 3.4. 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.

### 4. 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.

### 5. Inspection and Testing

- 5.1. 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.
- **5.2.** 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.
- 5.3. 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.
- **5.4.** 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.
- **5.5.** 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.
- **5.6.** Unless otherwise agreed, the Vendor shall bear all the expenses of tests carried out in his works.
- **5.7.** 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.

### 6. 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.

**7. Delivery:** Unless otherwise agreed the delivery period shall run from the date of the formation of the contract as defined in clause 2.

- **7.1.** 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.
- 7.2. 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.
- 7.3. 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.
- 7.4. 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.
- **7.5.** 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.
- **7.6.** 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.

### 8. Force Majeure

- **8.1.** 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.
- **8.2.** 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.
- **8.3.** 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.

### 8.4. Payment:

### 8.4.1 Terms of Payment:

- 1. The company prefers to deal with the supplier on an open account basis, and the payment to be made for each purchase order 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.
  - b. 100% of Payment will be released within 2 weeks 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 for each purchase order 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).
  - b. 100% of Payment will be released after submitting IDECO's acceptance certificate to the bank within 2 weeks after receipt of goods at IDECO's stores.
- **8.4.2 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.

- **8.4.3** 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.
- **8.4.4** 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.
- **8.4.5** 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.
- **8.4.6** 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.
- **8.4.7** 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.
- **8.4.8** 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.

#### 9. Guarantee:

- **9.1.** Subject as hereinafter set out; the Vendor undertakes to remedy any defect resulting from faulty design, materials or workmanship.
- **9.2.** 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.
- **9.3.** In fixing this period due account has been taken of the time normally required for transport as contemplated in the contract.
- **9.4.** 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.
- **9.5.** 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.
- **9.6.** The Guarantee period is based on the continuous use of the material in service for 24 hours every day.
- 9.7. 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.
- **9.8.** 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.
- 9.9. 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.
- **9.10.**The Vendor shall bear all the costs and risks of the transport of defective parts or equipments and their replacements.
- **9.11.**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.
- **9.12.** Defective parts replaced according to this clause shall be placed at the disposal of the Vendor.
- **9.13.**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.
- **9.14.**The Vendor's liability does not apply to defects arising out of materials provided, or out of a design stipulated, by the purchaser.
- 9.15. 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.
- **9.16.** 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.

- 9.17. 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.
- **9.18.**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.

### 10. Relief:

- 10.1. 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.
- **10.2.** 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.
- 10.3. 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.
- **10.4.**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.
- 10.5.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.
- **10.6.**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.

### 11. Limitation of Damages:

- **11.1.** 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.
- **11.2.** 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.
- **12. 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.

### 13. Arbitration and Law Applicable:

- 13.1. 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.
- 13.2. 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.

### 14. Ordering Procedures and Delivery Period

- 14.1 IDECO Company prefer Delivery period for each call off purchase order for the required items within 12-14 weeks and the priority will be given to the contractor who decrease the delivery period for purchase orders.
- 14.2 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.
- 14.3 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.
- 14.4 The purchaser shall issue 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.

### 15. Pricing Formula:

The supplier shall obligate to deliver the required materials during two years based on the fixed price of the required materials.

### **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. (81/2015) 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 (15) 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 (15) 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.** 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.
- **24.** 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.
- 25. 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.
- 26. 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.
- 27. 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.
- 28. 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.
- 29. 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.

- **30.** 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.
- 31.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.
- **32.** 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 (81 /2015).

### 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. (81/2015)

Dear Sir,

We	are	pleased	to	inform	you	that	we	guarantee
M/S				for		the		amount
of				in order t	o allow th	em to subn	nit an offe	er for the due
performa	ince of t	he undertakin	g and o	bligation as	specified	in their Te	nder for	Contract No.
		This Guarante	e shall re	emain valid fo	r a period	of one hun	dred twe	nty days from
the time	fixed for	opening the Te	nders by	IRBID DISTF	RICT ELEC	CTRICITY C	O. LTD.	
This Gu	arantee	shall be free f	rom any	interest and	will be ex	xtended or	paid in ca	ash upon your
first requ	iest in ar	ny or required,	without	the need for	natural wa	arning or ju	dicial pro	ceedings and
without a	any rights	to delay, oppo	ose, or st	op payment o	n our part	t, or on the	part of th	e Tenderer or
any of hi	s represe	entatives whom	n over. Ti	nis Guarantee	shall be	deemed val	id until th	e submittal of
a duly ex	ecuted F	erformance Bo	ond.					
		Signed				Bank (	Surety)	

## Irbid District Electricity Co. Ltd.

## Form of Performance Bond

## Tender No. (81/2015)

Dear Sirs,

behalf	of M/S					Con	tractor's N	ame and
and of	unconditional	Performance	Bond (In	No word),	in	in this	the connection	amount on we
uncond written contract This Bo	ditional payment demand in who ctor and without ond will expire o	Bank (the to you or to your a le or in part notwith any need for naturation ar utive similar period	outhorized astanding a sal warning and shall be	representat any objectio or judicial p renewed a	ives of ons on to roceed	the above the part of ings.	e sum on f the abov	your first e named
		·		·				
	Ş	Signed			B	ank (Sur	ety)	

### **Technical Specifications**

➤ The following technical Specifications and particulars are applicable for the manufacturing, testing, and supplying of the materials seen on the invitation to tender page 3, unless otherwise is mentioned in the following special requirements section.

### Climate Conditions:

The following is applicable unless otherwise is mentioned:

a. Maximum Ambient Temperature
b. Minimum Ambient Temperature
c. Design temperature
d. Maximum daily range of air temperature
e. Maximum Wind Pressure
f. Ice Thickness
50 C°
-10 C°
45 C°
20 C°
420 n/m²
10 mm.

g. Snow Fallsh. Site altitude1-4 days – 30 cm.0-1400m ASL

i. Average annual rainfall 40cm during November–April

j. Relative humidity in the rangek. Average number of thunder storms30 to 60%.15 days / year

I. Prevailing wind winter average daily approximately 5-8 m/s, with gust up to 30 m/s.

**m.** Summer wind average afternoon 10-13 m/s, during morning generally light and variable, gust speed up to 30 m/s.

## 1. Single phase Electronic kilowatt-hour meter (10-80) A, 230V for four-rate tariff application.

### 1.1 General

Kilowatt- hour single phase two wire four rates integrating meters shall comply with the requirements of IEC Publications 62052-11 First Edition 2003, 61358 Ed. 1.0 b, 62053 -21 Ed. 1.0 b and IEC 61107.

The tenderer shall make a presentation at IDECO offices about the facilities and specification of the offered meter within one week from the date of submitting offer documents this should include real time show for the meter, PC software, AMI software and all type of modems which compatible with the meter also its preferred to supply a non-returnable sample for HHU with wireless probe and its dock that compatible with the meter to program the relay and other functions.

### 1.2 **Design**

- 1.2.1 The single phase meter shall be of Class 1 for indoor and outdoor domestic applications with:
- Rated current of 10-80 A
- Rated Voltage of 230 ± 20% V
- Frequency 50 HZ
- Temperature range from -20° C to +80° C
- Relative Humidity up to 60%
- Electromagnetic Compatibility of 15KV according to IEC61000- 4-2
- Electromagnetic RF Fields 80MHZ- 2GHZ, typical 30 V /m according to IEC61000- 4-3

- Fast Transient Burst 4 KV for main circuits, 2 kV for auxiliary circuits, to IEC61000- 4-5
- Insulation Strength of 4KVAC at 50HZ for 1 minute
- Insulation strength Pulse Voltage 1.2/50microsec, 8kv main circuits, 6 kV auxiliary circuits according to IEC 62052-11
- Impulse withstands voltage of 10kV.
- 1.2.2 The meter shall be provided with an internal built-in RTC (Real Time Clock), time and calendar, to indicate real time and date (TOU). Date and time must be available in the display during normal operation (The accuracy of this clock must have high accuracy of variation not exceed +/-0.5 seconds per day.
- 1.2.3 The meter shall be provided with four KWH rates (up to 4 rates) and a total consumption for import energy as well as for export energy. (Note: anti- tampering function). It shall be programmable to record the absolute energy and to record both export and import energy separately.
- 1.2.4 The meter shall be able to provide historical data, (billing periods for 12 months at least). The meter shall be programmable to show the monthly stored billing registers on LCD using push button beside the possibility to read them through optical probe or any remotely supported communications methods.
- 1.2.5 Tenders are requested to quote meter with a maximum demand, the meter shall be able to be programmed to activate the maximum demand within the specified daily period of maximum demand through software. The daily period quantity should be specified as per Jordan local law (for 12 period at least).
  - 1.2.6 The programmable tariff software application shall provide different programmable tariff structures (up to 4 daily switching times) with day light time saving according to the Jordan Standard. It must be possible to change date, time as well the tariff program with a simple HHU or laptop.
- 1.2.7 The meter's register shall be reset to Zero after reaching the maximum range, and not be permitted to reset to zero under any circumstances. Before reaching the maximum range.
- 1.2.8 A high contrast, large character Liquid Crystal Display (LCD) must be provided with light illumination and uses information on the display to indicate the active element.
- 1.2.9 The display should be fully electronic and digital with not less than 7 digits excluding the hidden 4 or 3 decimals for testing and calibrations, the digit dimension should not be less than 8 X 3.5mm.
- 1.2.10 an auto cycle display with a programmable switch —over (0-30 sec.) between the different registers must be provided.
- 1.2.11 A push button for reading the display manually must be provided.
- 1.2.12 The rated shelf life of the LCD Screen shall not be less than 20 Years for continuous operation.
- 1.2.13 The Non- volatile memory minimum retention time shall not be less than 20 Years.

- 1.2.14 The battery life shall not be less than 20 years, the meter shall continue to operate even if the battery is lost for any reasons. The battery should not be used if the meter is connected to power.
- 1.2.15 The expected operational time of the offered meter has to be not less than (20 years) which has to be confirmed by an official organization from KEMA, or SGS. A certificate or confirmation to this effect has to be provided.
- 1.2.16 The meter shall include two ways IrDA optical communications port (According to IEC62056-21/IEC61107 Mode C). Contractor shall provide software open protocol license which enable the user to make easy read and write from and to the meter.
- 1.2.17 the Tenderer shall provide a serial port RS485 using open Standard Protocols (according should IEC 62056-21) that allows two way communication with the meter using an external modem. (According should as per IEC 62056/DLMS HDLC mode)
- 1.2.18 The meter shall be capable of being used with a modem which is prepared for AMR and provided with all suitable possible bidirectional communication modules to transmit and receive data by means of GSM, PLC, zig bee, Bluetooth, Radio frequency, GPRS etc. The meter shall be ready for plug in modem i.e modular type which has a space to mount the modem internally by plug in port. The meter shall be equipped with a power supply for the modem.
- 1.2.19 The meter communication protocol shall be an open protocol according to the IEC62056-21 and DLMS Communication Protocol which accepts the communication with multiple software from different vendors which enables Automatic Meter Management (AMM) such as (meter reading, parameterization, diagnostic. etc...) The DLMS certification must be provided to approval that meters are passed DLMS test.
- 1.2.20 The meter shall be equipped with LED for meter testing, and the meter constant shall be in from of impulse/ kWh.
- 1.2.21 The meters shall not generate waves or harmonics which might affect the neighboring electrical instruments or super imposed on power lines and shall not be affected by power failure that may prevent control of the meters.
- 1.2.22 The meter shall have security access levels for each process.
- 1.2.23 The meter shall be provided with load profile. The load profile is required basically for power with at least 6 months recording for (30 minutes registration). Offering multichannel load profile for other data will be preferable.
- 1.2.24 the meter shall be able to be connected with HHU via optical probe or other communication module to make (setting, upload, download) to the meter.
  - 1.2.25 The meter's software shall be user friendly including all controllable parameterization features such as multi-level of security for down loading and up loading the data. The software module could be upgraded frequently without extra charges while IDECO owns all software management properties this software should be have remote control access to the single meter and it should have AMI edition to monitor and control all the meter on the system through any supported communication method, this should include billing, power connection and disconnection, event; og alarms and reporting,

- historical data, parodic tasks ... etc, this softwer should be present with the meter presentation within one week from the date of submitting offer documents.
- 1.2.26 The meter shall be able to store all events happened with their time stamp in the log book such as (power up, power down, tampering events, over voltage, .. etc).
- 1.2.27 The meter shall have the facility to be read even if the Power is not present.
- 1.2.28 The meter shall be protected against high voltage DC discharge up to 100KV.
- 1.2.29 The enclosures of meters should be capable of being sealed with lead and two wire seals, and the hole shall be with suitable size for using two wire seals.
- 1.2.30 The required meters shall be provided with internal disconnector (relay) to be used for remote connection/disconnection in addition to limit and control load current of the customer.

### - The relay should be:

- 1. to be able to program it on site or at utility's lab.
- Software should be able to enable or disable the relay function, the disabling is important to run the I max test for accuracy test.

### - The relay should work on two modes:

- 1. The automatic mode for load limiting function to disconnect in overload situation is 30, 35, 40 or any given current with a time to be set for overload like 5, 10 or 15 minutes, relay should connect automatically once load goes below the limit all of this parameters should be programed by the pc software.
- 2. Manual mode, this mode to be connecting/disconnecting by the utility by using remote AMI/AMR or by hand held units HHU, the manual disconnection should be programmable to take place after a given time from the manual disconnect command i.e. after 15, 30, 40 ...minutes up to 72 hours.

Meter should have clear way to show the relay status such as using tow led to show overload or manual disconnection or to have clear screen massage or any other suitable way and this need to be approved by ideco

IDECO should approve the relay behavior for all mentioned and not mentioned cases.

The relay should be tested in respect of the following standard IEC 62055-31 (2005) Requirements for UC2. Also, it is a must for the tendered to submit type test certificates of relay from well-known third part laboratory like KEMA, CESI and IPH.

### 1.3 Accuracy

The meters shall be factory – calibrated and tested under conditions according to IEC62052- 11 so that when they are tested under the reference conditions stipulated in IEC 62053-11 first Edition 2003, the percentage errors shall be far within the limits as specified in IEC62053-11. Should the meters be re- tested for at a later date, the difference in accuracy readings between the first and second tests shall not exceed 1%. Furthermore, the meters shall be capable of being transported by road to the purchaser's Test Station in Irbid without losing their calibration.

### 1.4 Meter case

Each meter shall have a case which provides an ingress protection rating of IP54 in accordance with IEC 60529:1989 with extended terminal cover having rigid and homogeneous thickness without knock out grooves (weak areas) to prevent access to the feeding wires.

The extended terminal cover shall be capable of being sealed with lead and wire to prevent accessing to the feeding wires.

Materials of the main cover and terminal cover of the meter shall be high resistive to fire hazards. It should be of sufficient strength to protect the working parts and to be adequate to protect the meter against mechanical injury. It shall not be affected by chemical materials used for cleaning purposes specially the meter's LCD. The quality of materials should be fully complying with the all tests according to IEC.

The meter should be of the front- connected type with a hanging device provided and fitted on the base compatible with modern test rack fixings.

The equipment in this specification should be capable of accepting any size of conductor in the range 6 mm<sup>2</sup> up to 16 mm<sup>2</sup> for both pvc insulated copper and Aluminum conductor. The meter drawing should be provided under terminal cover.

### 1.5 Certification of Meters.

All meters supplied against the requirements of this specification will be tested before transfer to storage, on IDECO Meter Test Bench and should any meter be found to be outside the specified accuracy tolerance (Section 1.3) it will be rejected and the contractor shall supply the relevant number of replacement meters at no cost to the purchaser.

For Certification by Local Authorities, meters shall be tested against a minimum/ maximum error limit of the percentage of the test points (loads) specified in IEC 26053 -11 First Edition 2003. The difference between the original test value and the certification value shall not exceed +/-1%

The tenderer/ manufacturer of the meters offered shall supply proof that he has been manufacturing meters similar to those specified in this document, for at least 10 years. The Tenderer shall complete schedule (9) which includes list of supply Authorities using similar meters to those offered as references. The Tenderer shall also submit evidence that the meters can be expected to operate for > 20 years and remain within limits of error of +/ - 1% during that time. This has to be confirmed by an official certificate / letter from an Official International Institute. Also, it is a must for the tenderer to submit type test certificates from well-known third part laboratory like KEMA or SGS.

### 1.6 Calibration.

Meters shall be calibrated at time of manufacturing. For security reasons it should not be possible to do any calibration at site nor at the test station of the purchaser.

However, according to the local rules it must be possible to do regular checking / testing at site with on- site test equipment.

### 1.7 property plates

The meter shall be provided with label (s) detailing the following:

- 1- Meter type.
- 2- Manufacturer and year of manufacture.
- 3- Voltage, phase(s), wire(s)

- 4- Frequency
- 5- Accuracy class.
- 6- Number of pulses per kWh.
- 7- The words "Property of Irbid District Electricity Co. Ltd.".
- 8- The plate shall carry a serial number starting from (000000000) to (000000000) It shall specify the Contract number (i.e. IDECO 81 / 2015) and the year of manufacture. This serial number shall be also printed in bar code 128 type C in property plate at the front of the meter to be read by a hand held unit "Bar Code Reader". The serial number should be parameterized on each meter to express its unique identity by manufacturer.
- 9- IDECO contract No.81 /2015 and stock code No. 6625-2158.
- 10-All packing carton and wooden boxes should carry IDECO contract No.81/2015.

Note: - The plate design shall be submitted to the IDECO for approval.

### 1.8 Terminals.

Terminals of single phase meters shall be arranged as (Supply phase; N; N; Load Phase), reading left to right when facing the front of the meter case.

The width of the terminal block shall not exceed 130 mm and according to DIN 43857. The terminals shall be made of nickel- coated brass (bimetallic) material to enable a good electrical contact in hot and humid conditions. The fixing screws shall also be nickel- coated brass material to enable a good contact and prevent loosening at heat.

### 1.9 Sample Meters.

Non – returnable Sample of the meter and its software identical to the designs offered <u>must</u> be hand-carried and submitted with the tender on the specified date for opening Tenders. These representative samples will be closely examined and will undergo mechanical, electrical, accuracy tests and the software at IDECO Test Station in Irbid. Failure of the sample for both the meter and its software to meet Specifications set out in this document will entitle the Purchaser to reject the tender.

### 1.10 Installation and maintenance support.

The meter shall provide information on the display to support the installer during installation of the meter, such as:

- Measurement of the instantaneous voltage
- Measurement of the instantaneous current
- Measurement of the power factor
- Battery level
- 1.11 Options to be quoted by Tenderers.

As an Option the tender / manufacturer should quote for Reactive measurement

### 1.12 High-level Anti- Tampering Meter.

- 1.12.1 The meter shall be a high- level anti- tampering. This meter should detect and record the event with time stamp for the following tampering cases :
  - Phase and Neutral reversed on incoming supply terminals
  - Load connected to incoming supply terminals.

- Load fully connected (returned) to earth when the phase and neutral reversed on incoming supply terminals.
- Load partially returned to earth when the phase and neutral reversed on incoming supply terminals
- Load connected to incoming terminals as well as partial to earth
- Neutral connection removed
- Connecting by pass between incoming phase and outgoing phase
- Resistive to high magnetic field exposure.
- The meter shall detect the removal of terminal cover and store these events in the memory
- Other anti-tampering features.
- 1.12.2 The meter shall be provided with alarm flag displayed on LCD to indicate for any of the above tampering cases and record the date and time of this case beside storing all the events in the meter's memory also addition an alarm led is preferred.
- 1.12.3 the meter shall be provided with two measuring element one on phase and the other on neutral, and the meter shall measure the (phase energy) and display this energy in the main register for billing purposes, the meter shall measure the (neutral energy) and display this energy in sub register. Also, the meter shall calculate the difference between the phase energy and neutral energy when the neutral energy is higher and display this difference in sub register.

### 1.13. Required Tests

### a) Power Losses

The losses in each voltage and current circuit shall be measured under reference condition to prove compliance with tables 1 and 2 IEC 62053-11 first Edition 2003.

### b) Heating and Dielectric Tests.

Tests shall be carried out to establish compliance with the requirements of clauses 1.3 and 7.4 of IEC62053-11 First Edition 2003.

Where these tests have already been carried out on meters identical in design and specification to those included in this contract then full details may be submitted of approval by the Engineer in lieu of type testing.

### c) Accuracy

Under the condition set out in clause 5.5 of IEC 62053-11 first edition 2003 and after having been energized for the appropriate period state therein, the meters shall be listed to establish that the actual percentage error values fall within the limits as set out in clause 1.3 of these specifications. The mean temperature co-efficient shall be determined for the reference temperature and shall be within the limits. The variations due self-heating should be determined.

The meters shall be factory-calibrated so that when they are tested under the reference condition stipulated corresponding IEC62053-21 and, be retested for accuracy at later date, the difference in accuracy reading between the first and second tests shall not exceed 1%. Furthermore, the meters shall be capable of being transported by road to the purchaser's Test station Irbid without losing their calibration.

### d) Insulation Test.

The meters shall be tested at pressure of 4kV for a period of 1 minute between all love terminals and earth.

### **SCHEDULE (1)**

### SINGLE PHASE ELECTRONIC METER TECHNICAL DATA

### (MUST BE COMPLETED BY THE TENDERER WITH)

## (All data should be clear mentioned and shown in one table with the same numbering as shown in SCHEDULE (1)

Item	Description	Tenderer's reply
1	Name of manufacturer	
2	Country of origin	
3	type of meter	
4	description of product	
5	Operating system	
6	manufacturing license	
7	quality assurance certificate	
8	standard IEC No	
9	operating ranges:	
9.1	Temperature C°	
9.2	Humidity RH	
10	Basic Current A	
	Max Current	
10.1	Starting current of Ib (A)	
10.2	Short circuit current (A)	

Basic current = Basic value of current on which the meter performance fixed .

Max. current = Highest value of current at which the meter purports to meet the accuracy requirement of the standard

ITEM	DESCRIPTION
10.3	Active energy class of meter
10.4	Reactive energy class of meter
11	Rated voltage: Auto ranging from (V)
11.1	Voltage variation range (V)
12	Rated frequency Hz
13	AC withstand voltage for 1min kV
	IEC No
14	Impulse withstand voltage 1.2/50Micro kV seconds
	IEC No
15	Burst test kV
	IEC No
16	Electro static discharge kV
	IEC No
17	HF magnetic field V/m
	IEC No
18	Type of surge protection
18.1	Insulation resistance Mohm
19	Total power consumption VA
19.1	power consumption in VA per
	voltage circuit phase

ITEM	DESCRIPT	ION	
19.2	Power consumption in	VA per	
	current circuit	phase	
20	Meter constant	Imp per	
		kWh	
	Outing.	lara a ra	
	Option	Imp per	
24	Matardimanajana	kVarh	
21	Meter dimensions		
22	Material of the base (color)		
	is it UV protected ?		
23	Material of the meter cover (co	lor)	
	is it UV protected?		
24	Material of terminal block cove		
	is it UV protected?		
25	Meter weight		
26	Material of terminal block conn	ectors, bimetallic?	
27	Method of fixing conductor (ma	iterial)	
	No of screws ( & material )	•	
28	Degree of protection		
29	Min cross section of terminal b	lock holes	
30	Type of sealing facilities provid	ed:	
	Terminal cover		
	Meter cover (shall be complete	ely sealed, preferred to	
	be without screws).		

ITEM	DESCRIPTION	
31	No of digits for energy/max. demand	
	Size of digits	
	Size of display	
	No. of available decimal / programmable?	
	Display contrast	
31.1	LCD rated shelf time Years	
31.2	Is self-diagnostic check available?	
31.3	Is the LCD illuminated? Yes/No	
32	Type of memory provided	
32.1	Non-volatile memory Years	
	(min. retention time)	
33	Backup supply continuous Years	
	carryover capability(Batteries)	
33.1	RTC accuracy	
33.2	Features for easily disconnect/reconnect backup power	
	supply, plug in or welded / changeable?	
33.3	Time keeping source available:	
	i : Internal time clock (depend on crystal oscillator)	
	ii : Synchronization to system frequency	
34	Type of communication port	

ITEM	DESCRIPTION	
34.1	Optical port	
	IrDA baud Rate	
34.2	Possibility to connect GSM (3g or 2g) ,GPRS, PLC,	
	Radio frequency, or Zigbee modems	
35	Is the meter IEC62056 compliant?	
35.1	What other protocols used?	
36	Is pulse output provided? (option)	
	- No of pulse outputs	
36.1	Method of pulse output	
36.2	Pulse transmission distance	
36.3	No of control inputs	
37	Is the meter "Tamper proof"? How?	
37.1	Is the meter equipped with power down indicator on LCD	
37.2	Is the meter equipped with energy direction status indicator on LCD	
37.3	Could the meter be read when the power is disconnected	

	SCHEDULE 1 – CONTINUED			
ITEM	DESCRIPTION	data		
37.4	Is the meter equipped with low battery indicator on LCD?			
38	Software features			
38.1	Is the software upgradeable free of extra charge			
39	39 Is the meter communication system prepared for AMR and AMM from			
	multiple vendors?			
40	Is the meter for out door use?			
41	Terminal cover dimension according to which IEC or equivalent DIN?			
43	Is the meter including bush button for manual reading			
44	Routine test laboratory			
45	Type test laboratory Test certificate No.			
46 47				
48	Name of testing laboratory  Years of experience of manufacturing the required item (Similar Type			
49	Does the meter detect the removal of terminal cover and store these events in the memory			
50	Is the meter equipped with two measuring elements?			
	Does the second measuring element measure the neutral energy in			
	separate register as required in item 1.12.3 in technical specification?			
51	Export and Import energy registration?			
52	How many daily tariff rates?			
53	Does it have RS 485 port?			
54	Is the meter of modular type which ready to connect the modem internally through plug in port?			
	If yes, is the plug in port ready to supply the modem with power?			
55	What is the IP of the meter?			
56	Is the meter including load profile and maximum demand? What is the capacity for both?			
57	Possibility to register MD every 30min/monthly?			
58	Expected life time of the meter?			
	What is the proof?			

### **SCHEDULE (2)**

# MANUFACTURERS AND PLACES OF MANUFACTURE, TESTING AND INSPECTION FOR SINGLE PHASE METER (TO BE COMPLETED BY THE TENDERER)

Item No.	Description	Manufacturer	Place of Manufacture	Place of Testing& inspection
1	Current sensors			
2	Power supply Board			
3	CPU			
4	Memory			
5	RAM			
6	RS485 port			
7	Optical communication			
	interface			
8	LCD			
9	Push Buttons			
10	Communication Boards			
11	Terminal			
12	Batteries			
13	Material of meter cover			
	(Case)			
14	Material of terminal Cover.			

Schedule No. (3)

Main Components Manufacturer Reference List

(To Be Completed by the Tenderer, only the Reference List Manufacturer are qualified In this Tender)

Item No.	Description	Reference Manufacturer	Place of manufacture	Offered component manufacturer	Offered component place of manufacture
	SMT	TDK	Japan		
1	Resistance	YAGEO	Taiwan		
	Resistance	UniOhm	Taiwan		
2	SMT Capacitor	TDK	Japan		
	Sivi Capacitor	YAGEO	Taiwan		
3	SMT Filter	TDK	Japan		
3	SIVIT FIILE	Murata	Japan		
	Electronics	Nippon Chemi-	Japan		
4	Capacitor	Con			
	Capacitoi	RUBYCON	Japan		
		ST	Europe		
		Microelectronics			
5	MCU	Microchip	USA		
5	IVICO	Maxim	USA		
		Microelectronics			
		Texas Instruments	USA		
		Microchip	USA		
	E2PROM	Maxim	USA		
6		Microelectronics			
		Texas Instruments	USA		
		ON Semiconductor	USA		
	FLASH ROM	Microchip	USA		
		Maxim	USA		
7		Microelectronics			
		Texas Instruments	USA		
		ON Semiconductor	USA		
		Maxim	USA		
8	RS485 Chip	Microelectronics			
		ON Semiconductor	USA		
		Maxim	USA		
9	POWER REGULATOR	Microelectronics			
		ON Semiconductor	USA		
		JRC	Japan		
		ST	Europe		
		Microelectronics			
10	CRYSTAL OSCILLATOR	KDS	Japan		
		SEIKO	Japan		
11	BATTERY	SAFT	France		
	DATIERI	SANYO	Japan		

## Schedule No. (4) Departures from Technical Specifications for item (1)

The Tenderer shall list the standard specifications to which the main items of tendered equipment are designed and manufactured.

Equipment	National standard	English title

### SCHEDULE (5)

### **REFERENCE LIST**

PURCHASER	COUNTRY OF PURCHASER	DATE OF DELIVERY	ORDERD QUANTITY	PURCHASER CONTACT ADDRESS

### **SCHEDULE (6)**

### **RECOMMENDED SPARE PARTS FOR METERS**

Quantities and descriptions of spare parts and maintenance equipment recommended by the tenderer for the requirements of the meters stated in schedule for a period of ten years, acceptance of which shall be at the option of the employer.

No.	Description of spare parts recommended	Quantity Offered

### **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 Calls for: fixed Prices.
- 2. The manufacturer shall print IDECO Contract No. (81/2015) and purchase order No. (), and country of origin, and the following message:
  - IDECO Contract No. (81/2015).
  - Stock code as seen in the invitation to tender table no.2 page (3).
  - manufacture name
  - manufacturing date
  - Serial number
  - QR code contains the above message.
- **3.** The tenderer should provide IDECO with suitable way to read the memory of any damaged meter such as memory holder to read it through optical probe, and at least one of this hardware should supplied with the tender.
- **4.** The tenderer should supply 10 optical probe with the tender.
- 5. Maintenance instructions: Where the equipments / 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.
- **6.** Catalogues: a set of the manufacturer's catalogues shall be attached to the tender.
- 7. Each shipment required based on (request for delivery) shall be inspected in country of origin by two IDECO engineers, and all Inspection Costs (Visa, Air Tickets, Hotel, Accommodation, Transportation, etc.) of at least (2) IDECO representative engineers, at the manufacturer house, for each purchase order to ensure the proper handling and operation of the supplied materials is required. And contractor is to handle all related costs.
- **8.** When the visit to a factory is required for evaluation purposes before signing the agreement, the tenderer must do all necessary arrangement for this visit; the related cost of visit by IDECO team will be borne by the manufacturer.
- 9. Same as mentioned in the previous technical specifications, No further special Requirements.
- **10.**The material safety data sheet (MSDS) of all equipments / materials is required to be submitted with the offer.
- 11. Ir probe should have cover which can be sealed by sealed wire.
- **12.** The meter should have the following colored sticker with suitable size on the both side of the meter and it should be paper with PE layer cover and it Must be resistant to moisture and water and it should be cracked if it removed one-time.



### **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 7 (Manufacturing & Delivery)

	Data for item (1)
Required	Single phase Electronic kilowatt-hour meter (10-80) A, four- rate-tariff application.
Manufacturer	
Manufacturing Place	
Inspection Place	
No. of purchase orders within 2 years	
Manufacturing Period and Delivery ( week) to from purchase order date	
Minmum quantity per each purchase order. (USD)	
Maximum quantity per each purchase order ( USD )	

### **Price Summary and Delivery**

- ➤ 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.
- ➤ IDECO Company is not exempted from custom duties, sales taxes, import license fees and any other tariffs.
- 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 is required to fill in the below table for **quoted price** based on the fixed price for required materials, and the offered price shall valid during two years.

### Schedule 8

No.	Quantity (PCS) Within 2 years	Material	Unit Price Currency	Total Price Currency
1	90,000	Single phase Electronic kilowatt- hour meter (10-80) A, 230V for four-rate tariff application.		
Total Contract Price (in words)				
Minimum value per each purchase order (currency)				
Maximum value per each purchase order (currency)				

Name(s) of Sureties:	
Name(s) and Address of Tenderer:	
Tele / Fax:	Answer Back Code:
Signature:	Position of Signatory:

### Tender Agreement Summary Tender No. (81/2015)

Dear	Sir:
	• ,

1.	Having examined the conditions of Contract, specification and schedule for the above Works the undersigned, offer to manufacture, supply, work, test, and deliver the said works described in the specification and schedules and in accordance with the said conditions of contract, for the sum of
2.	We agree that this tender shall be held open for acceptance or rejection for the validity period of <b>120 days</b> from the date fixed for opening tenders and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
3.	Unless and until a formal agreement is prepared and executed, this tender, together with your written acceptance thereof, shall constitute a binding contract between us.
4.	If our tender is accepted, we will deliver to Irbid District Electricity Co. Ltd. Within <b>(15) days</b> of being called upon to do so a performance bond by bank or insurance company (to be approved in either case by the purchaser) to be jointly and severally bound with us in a sum equal to <b>10%</b> of the value of the contract. The form of the performance bond will be as attached hereto. We propose the following Bank or insurance company as surety (or sureties) in this respect:
5.	We undertake if our tender is accepted and on receipt of your acceptance to commence and manufacture, works test, and complete for delivery <a href="mailto:ex-works">ex-works</a> the whole of the Works offered within () weeks calculated from the date of Order Letter Awarding, and to deliver or the dock at (port) - Jordan the whole of the works offered within a further () weeks, or to IDECO stores within a further () weeks.
6.	We undertake to insure the materials against all risks from the time they leave the works until they are placed on board ship. We understand that marine insurance will be effected by Ibic District Electricity and we will provide details of the materials to be shipped in good time for Ibic District Electricity to arrange for the said marine insurance.
7.	A guarantee Period will apply to each section of the works of fifteen months from the date of dispatch ex-works or twelve months from the date of setting to work whichever shall be the later.
8.	We understand that you are not bound to accept the lowest or any tender you may receive.
	Dated thisday of / / 2015.
	Signaturein the capacity of
	Duly authorized to sign Tender for and on behalf of
	AddressOccupation