



Irbid District Electricity Co. Ltd.

Two years Call - Off Contract NO. (75/2022) for

Supply of:

- 1. Rated 12KV, Extensible, Motorized, very compact-sized, vacuum type interrupter, Ring Main Unit, with two rated 630 A main feeders and Two rated 630 A Tee-Off Circuit Breakers.
- 2. Rated 12KV, Extensible, Motorized, very compact-sized, vacuum type interrupter, Ring Main Unit, with two rated 630 A main feeders and one rated 630 A Tee-Off Circuit Breaker.
- 3. Rated 12KV, Extensible, Motorized, very compact-sized, vacuum type interrupter, Feeder switch, with one rated 630 A main feeder and one rated 630 A Tee-Off Circuit Breaker.

Tenderer:

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

Tender summary mentioned in page (4-7) shall be fill by the tenderer, otherwise his tender will not be considered.

Tender Document Cost = 150 JD.





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Invitation to Call - Off Contract NO. (75/2022)

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 <u>on call-off basis for a period of two (2)</u> 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 **November 30**, **2022**.

All bids must be accompanied with a Bid Bond of <u>not less than 5% of the highest alternative offered</u> <u>price</u> valid for 120 days from the closing date, otherwise your tender will not be considered. The bid bond shall be enclosed in the same envelope of the tender and must be delivered to **tenders secretary office located in Supplies Department – Tenders Section** not later than 2 pm (local time) due <u>November 30, 2022.</u>

Та	ble 2		
ltem No.	Quantity (PCS) Within 2 years	Material Description	Stock Code
1	10	Rated 12KV, Extensible, Motorized, Very Compact-Sized, Vacuum Type Interrupter, <u>Ring Main Unit</u> , With <u>Two</u> Rated 630A Main Feeders and <u>Two</u> Rated 630 A Tee-Off Circuit Breakers.	6110-3080
1.1	10	DC Batteries 24V DC and Charger 240 VAC/24V DC For Item No.1.	6110-3082
1.2	10	Single Phase Voltage Transformer 11/0.4 KV Line To Line For Item No. 1	6110-3081
2	100	Rated 12KV, Extensible, Motorized, Very Compact-Sized, Vacuum Type Interrupter, <u>Ring Main Unit</u> , With <u>Two</u> Rated 630 A Main Feeders And <u>One</u> Rated 630 A Tee-Off Circuit Breaker.	6110-2821
2.1	100	DC Batteries 24V DC And Charger 240 VAC/24V DC For Item No.2.	6110-2822
2.2	100	Single Phase Voltage Transformer 11/0.4 KV Line To Line For Item No. 2	6110-2842
3	5	Rated 12KV, Extensible, Motorized, Very Compact-Sized, Vacuum Type Interrupter, <u>Feeder Switch</u> , With <u>One</u> Rated 630 A Main Feeder And <u>One</u> Rated 630 A Tee-Off Circuit Breaker.	6110-2825
3.1	5	DC Batteries 24V DC And Charger 240 VAC/24V DC For Item No.3.	6110-3826
3.2	5	Single Phase Voltage Transformer 11/0.4 KV Line to Line for Item No. 3	6110-3827

<u>Tender Summary for Tender No. 75/2022</u> These 3 pages must be completely filled out by the bidder; otherwise it may be a reason for exclusion from the bidding competition:

Name of bidder:		dder:	
Address:		s:	
Telepho	one/Cel	lular/Fax	
	E- Mai	I	
Con	tact Pe	rson:	
Name of	the ma	anufacturer	
and count			
		e bid bond	
and the ba	ank iss	ued from:	
	Οι	irrency	
		Including	
The total	price	tax & fees	
value of		Exclude	
the bid:		tax & fees	
		exempt	
	Total price in		
	writing		
	Ex-works		
	delivery		
Delivery	Aqaba		
Denvery	delivery		
		stores	
	delive		
	Place	-	
Testing	manufacturing		
		of testing	
Cost for	r insp	pection &	
testing:			Official signature and east / Bide

Irbid Electricity Company Use:				
Chairman of the Committee Deputy Chairman of the Committee				
Committee member	Committee member	Committee member		
Committee member		Committee member		

Departures

		Required	offered
Departures from	Technical specifications		
		Required	offered
	Special requirements		

Irbid Electricity Company Use:					
Chairman of the Committee Deputy Chairman of the Committee					
Committee member	Committee member	Committee member			
Committee member		Committee member			
	5				

- <u>General Condition</u>: We committed to implementing all items mentioned in the general conditions within the bid document number (), and the subcategories of these items.
- 2- <u>Tendering Instructions</u>: We committed to implementing all items mentioned in the tendering instructions within the bid document number (, and the subcategories of these items.
- 3- <u>General Requirement (Standards and Regulation)</u>: We committed to implementing all items mentioned in the general conditions within the bid document number (), and the subcategories of these items.
- 4- <u>Inspection and testing</u>: We committed to implementing all items mentioned in the inspection and testing within the bid document number (), and the subcategories of these items.
- 5- <u>Special Requirements</u>: We committed to implementing all items mentioned in the special requirements within the bid document number (), and the subcategories of these items.
- 6- We committed to fill out all the required pages with the bid documents, without any discrepancies with similar information contained in the Tender Summary.
- 7- We committed that in case there is a difference in the prices provided by us, the lower price will be approval.
- 8- Based on the above we sign.

Irbid Electricity Company Use:				
Chairman of the Committee Deputy Chairman of the Committee				
Committee member	Committee member	Committee member		
Committee member		Committee member		

In case there are any comments or additional terms or other offers by the bidder; it must be mentioned or Brief about it in the summary of this page:

Irbid Electricity Company Use:					
Chairman of the Committee Deputy Chairman of the Committee Committee member Committee member Committee member					

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

partial awarding per item or per quantity for a single item might be applicable and the suppliers do not have the right to object.

3.10. IDECO has a complete right to substitute certain items instead of other items by increasing or decreasing the required quantity in purchase order.

3.11. Precedence: In the event of any discrepancy or contradiction between the provisions of the conditions of contract and of the specification, the conditions of contract shall take precedence.

4. Drawings and Descriptive Documents

- **4.1.** The weights, dimensions, capacities, prices, performance rating and other data included in catalogues, prospectuses, circulars, advertisement, illustrated matter and price lists constitute an approximate guide. These data shall not be binding save to the extent that they are by reference expressly included in the contract.
- **4.2.** Any drawings or technical documents intended for use in the construction of the material or of part thereof and submitted to the purchaser prior or subsequent to the formation of the contract remain the exclusive property of the Vendor. They may not, without the Vendor's consent, be utilized by the purchaser or copied, reproduced, transmitted or communicated to a third party. Provided, however, that the said plans and documents shall be the property of the purchaser.
 - 14.1 If it is expressly so agreed, or
 - 24.1 If they are referable to a separate preliminary development contract on which no actual construction was to be performed and in which the property of the Vendor in the said plans and documents was not reserved.
- **4.3.** Any drawings or technical documents intended for use in the construction of the material or of part thereof and submitted to the Vendor by the Purchaser prior or subsequent to the formation of the contract remain the exclusive property of the Purchaser. They may not, without his consent be utilized by the Vendor or copied, reproduced, transmitted or communicated to a third party.
- **4.4.** The Vendor shall, if required by the purchaser, furnish free of charge to the purchaser at the commencement of the Guarantee Period, as defined in clause 9, information and drawings other than manufacturing drawings of the material in sufficient detail to enable the purchaser to carry out the erection, commissioning, operation and maintenance (including running repairs) of all parts of the material. Such information and drawings shall be the property of the purchaser and the restrictions on their use set out in paragraph 2 hereof shall not apply thereto. Provided that if the Vendor so stipulates, they shall remain confidential.

5. Materials Packing and Shipping Marks

All materials, equipment and goods shall be very well packed, in seaworthy containers and/or wooden cases, etc. These should protect the material during shipping, handling, unloading, and for a reasonable period of storage at Aqaba and latter storage at IDECO stores. Packing for indoor materials should be done in such manner as to adequately ensure no ingress of moisture during the shipping and storage periods. Packing of fragile equipment (e.g. including instruments and porcelain) should be done in a way which ensures a reasonable

resistance to impact breakage during transport. Packing shall in general be adequate and in compliance with the best international practice. A descriptive and fully itemized list shall be prepared for the contents of each packing case. A copy of this list shall be placed in a waterproof envelope under a metal or other suitable plate securely fastened to the outside of one end of the case. And its position adequately indicated by stenciling on the case. Where appropriate drawing showing the erection marking of the items concerned shall be placed inside the case, IDECO will supply the successful tenderer with a drawing of its shipping mark for utilization. All packing cases, crates, barrels and drums shall remain the property of the purchaser.

6. Inspection and Testing

- **6.1.** If expressly agreed in the contract, the purchaser shall be entitled to have the quality of the materials used and the parts of the instruments, both during manufacture and when completed, inspected and checked by his authorized representatives. Such inspection and checking shall be carried out at the place of manufacture during normal working hours after agreement with the Vendor as to date and time.
- **6.2.** If as a result of such inspection and checking the purchaser shall be of the opinion that any materials or parts are defective or not in accordance with the contract, he shall state in writing his objections and the reasons therefore.
- **6.3. TESTS**: Acceptance tests will be carried out and, unless otherwise agreed, will be made at the Vendor's works and during normal working hours. If the technical requirements of the tests are not specified in the contract, the tests will be carried out in accordance with the general practice obtaining in the appropriate branch of the industry in the country where the material is manufactured.
- **6.4.** The Vendor shall give to the purchaser sufficient notice of the tests to permit the purchaser's representatives to attend. If the purchaser is not represented at the tests, the tests report shall be communicated by the Vendor to the purchaser and shall be accepted as accurate by the purchaser.
- 6.5. If on any test (other than a test site, where test on site are provided for in the contract) the material shall be found to be defective or not in accordance with the contract, the Vendor shall with all speed make good the defect or ensure that the plant complies with the contract. Thereafter, if the purchaser so requires, the test shall be repeated.
- **6.6.** Unless otherwise agreed, the Vendor shall bear all the expenses of tests carried out in his works.
- **6.7.** If the contract provides for tests on site, the terms and conditions governing such tests shall be such as may be specially agreed between the parties.

7. Passing of Risk

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

- **8.** Delivery: Unless otherwise agreed the delivery period shall run from the date of the formation of the contract as defined in clause 2.
 - **8.1.** Should delay in delivery be caused by any of the circumstances mentioned in clause 10 or by an act or omission of the purchaser and whether such cause occur before or after the time or extended time for delivery, there shall be granted subject to the provisions of paragraph 5 hereof such extension of the delivery period as is reasonable having regard to all the circumstances of the case.
 - 8.2. If a fixed time for delivery is provided for in the contract and the Vendor fails to deliver within such time or any extension thereof granted under paragraph 2 hereof, the purchaser shall be entitled, on giving to the Vendor within a reasonable time notice in writing, to claim a deduction of the price payable under the contract. Such deduction shall be calculated at the rate of one half of one percent of that part of the price payable under the contract which is properly attributable to such portion of the plant 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 the purchase order value, Such deduction shall be allowed when a payment becomes due on or after delivery. Save as provided in paragraph 5 hereof, such deduction of price shall be to the exclusion of any other remedy of the purchaser in respect of the Vendor's failure to deliver as aforesaid.
 - **8.3.** If the time for delivery mentioned in the contract is an estimate only, either party may after the expiration of two thirds of such estimated time require the other party in writing to agree a fixed time. Where no time for delivery is mentioned in the contract, this course shall be open to either party after the expiration of six months from the formation of the contract. If in either case the parties fail to agree, either party may have recourse to arbitration, in accordance with the provisions of clause 13, to determine a reasonable time for delivery and the time so determined shall be deemed to be the fixed time for delivery provided for in the contract and paragraph 3 hereof shall apply accordingly.
 - **8.4.** If any portion of material in respect of which the purchaser has become entitled to the maximum deduction provided for by paragraph 3 hereof, or in respect of which he would have been so entitled had he given the notice referred to therein, remains undelivered, the purchaser may by notice in writing to the Vendor require him to deliver and by such last mentioned notice fix a final time for delivery which shall be reasonable taking into account such delay as has already occurred. If for any reason whatever the Vendor fails within such time to do everything that he must do to effect delivery, the purchaser shall be entitled by notice in writing to the Vendor, and without requiring the consent of any court, to terminate the contract in respect of such portion of the material and thereupon to recover from the Vendor any amount not exceeding that part of the price payable under the Contract which is properly attributable to such portion of the material as could not in consequence of the Vendor's failure be put to the use intended.
 - **8.5.** If the purchaser fails to accept delivery on due date, he shall nevertheless make any payment conditional on delivery as if the paternal had been delivered. The Vendor shall arrange for the storage of the material at the risk and cost of the purchaser. If required by the purchaser, the Vendor shall insure the material at the cost of the purchaser. Provided that if the delay in accepting delivery is due to one of the circumstances mentioned in clause 10 and the Vendor is in a position to store it in his premises without prejudice to his business,

the cost of storing the material shall not be borne by the purchaser.

8.6. Unless the failure of the purchaser is due to any of the circumstances mentioned in clause 10, the Vendor may require the purchaser by notice in writing to accept delivery within reasonable time. If the purchaser fails for any reason whatever to do so within such time, the Vendor shall be entitled by notice in writing to the purchaser, and without requiring the consent of any court, to terminate the contract in respect of such portion of the material as is by reason of the failure of the purchaser aforesaid not delivered and thereupon to recover from the purchaser any loss, suffered by reason of such failure up to an amount not exceeding the value of the material, the delivery of which has not been accepted.

9. Force Majeure

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

10. Payment:

10.1. 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, and those document shall be legalized for shipping purposes.
 - b. 100% of Payment will be released within <u>one month</u> after the receipt of goods and acceptance at IDECO stores.
 - c. Payment will be released on first week of each month.
- 2. In case the supplier insists on L/C as a method of payment, all /LC charges will be borne by the supplier and charge to his own account 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 3negotiable + 5 non-negotiable), (Test certificate (where applicable) + 6

copies), and those document shall be legalized for shipping purposes.

- b. 100% of Payment will be released after submitting IDECO's acceptance certificate to the bank within <u>one month</u> after receipt of goods at IDECO's stores.
- c. Payment will be released on first week of each month.
- **10.2. 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.
- **10.3.** 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.
- **10.4.** 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.
- **10.5.** 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.
- **10.6.** 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.
- **10.7.** 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.
- **10.8.** 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.

11. Guarantee:

- **11.1.**Subject as hereinafter set out; the Vendor undertakes to remedy any defect resulting from faulty design, materials or workmanship.
- **11.2.** 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.

- **11.3.** In fixing this period due account has been taken of the time normally required for transport as contemplated in the contract.
- **11.4.** 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.
- **11.5.** 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.
- **11.6.**The Guarantee period is based on the continuous use of the material in service for 24 hours every day.
- 11.7.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.
- **11.8.**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.
- **11.9.**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.
- **11.10.** The Vendor shall bear all the costs and risks of the transport of defective parts or equipment and their replacements.
- **11.11.** 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.
- **11.12.** Defective parts replaced according to this clause shall be placed at the disposal of the Vendor.
- **11.13.** 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.
- **11.14.** The Vendor's liability does not apply to defects arising out of materials provided, or out of a design stipulated, by the purchaser.

- **11.15.** 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.
- **11.16.** 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.
- **11.17.** 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.
- **11.18.** 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.

12. Relief:

- 12.1. 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.
- **12.2.** 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.
- **12.3.** 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.
- **12.4.** 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.
- **12.5.** 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.

12.6. 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.

13. Limitation of Damages:

- **13.1.** 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.
- **13.2.** 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.
- **14. 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.

15. Arbitration and Law Applicable:

- **15.1.** 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 parties.
- **15.2.** 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.

16. After Awarding Tenders, winner tenderer will be assessment according to quality of good, delivery period, service after sale, and assessment weight will be considered in coming tenders' evaluation.

17. Where the contractor, who was awarded the bid, ceased or failed in implementing the conditions of the bid; IDECO Company has the right to take the appropriate decision on the

confiscation of the amount of guarantee or insurance provided by the bidder upon his participation in the tender, In addition, the IDECO company has the right to the restriction of participation of this bidder in all of the company's bids for the duration seen appropriate.

18. The purchaser has the complete right to reply on contractor's clarifications during 7 days, and during this period there is not exemption from incurred penalty for the event.

19. Ordering Procedures and Delivery Period

- **19.1.** IDECO Company prefer Delivery period for each call off purchase order for the required material within 90 days, and the priority will be given to the contractor who decrease the delivery period for purchase orders.
- **19.2.** The contractor shall determine the delivery period which should be considered as the contractual delivery period for each call-off purchase order where this period is an important factor during the evaluation and priority should be given to earlier.
- **19.3.** The purchaser has to send a final awarded letter for each call-off purchase order containing the final total order value for the required items, enabling the contractor or his representative to pay the stamps fees.
- **19.4.** 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.

20. Pricing Formula:

The supplier shall obligate to deliver the required materials during two years based on the <u>fixed price</u> 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. (75/2022) 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.
- 19. The tender shall be accompanied by a tender bond in the form of a Bank Guarantee valid for at least 120 days from the time fixed for the closing date of tender, or certified check in favor of and payable to the purchaser for a sum of.....as a guarantee of good faith. This bond is to be issued by any approved bank in Jordan. The bond will be returned to the unsuccessful tenderer within 120 days from the time fixed for opening the tenders or at such earlier time as a tender shall have been accepted by the purchaser. In the case of the successful tenderer, the bond will, subject to the conditions of contract, be returned as soon as a formal contract agreement and a performance bond have been entered into.

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

case, the exchange rates prevailing at the time of the decision to notify the award to the successful tenderer may be used.

- 29. The purchaser does not bind himself to accept the lowest or any tender, nor to assign any reason for the rejection of any tender, nor to purchase the whole of the equipment and materials specified. The purchaser has the right to purchase part of the tender, even if it is only one item from the schedule of rates and prices.
- **30.** The tenderer shall submit with his tender in order of the relevant clauses, a statement of any departures from specifications, or he can fill in the related schedule attached herewith. Notwithstanding any description, drawings, or literature which may be submitted, all details other than those in the statement of departures shall be assumed to be in accordance with the specification.
- **31.** Although IEC standards for workmanship, equipment and materials, have been selected in this specification as a basis of reference, standards and specifications of other countries and recommendations of other international standard organizations will be acceptable provided that they are substantially equivalent to the designated standards and provided further that the tenderer submits for approval detailed specification which he proposes to use.
- **32.** References to brand names or catalog numbers, if any, in this specification have been made only for that equipment for which it has been determined that a degree of standardization is necessary to maintain certain essential features. In certain instances such references have also been made for purpose of convenience to specify the requirements. In either case offers of alternative goods which have similar characteristics and provide performance and quality at least equal to those specified are acceptable.
- **33.** Where compliance with a specific standard specification is called for the standard specification used shall be that in force at the time of tender.
- 34. The purchaser has the complete right to reply on contractor's clarifications during 7 days, and during this period there is not exemption from incurred penalty for the event.
- 35. After Awarding Tenders, winner tenderer will be assessment according to quality of good, delivery period, service after sale, and assessment weight will be considered in coming tenders' evaluation.
- 36. Where the contractor, who was awarded the bid, ceased or failed in implementing the conditions of the bid; IDECO Company has the right to take the appropriate decision on the confiscation of the amount of guarantee or insurance provided by the bidder upon his participation in the tender, In addition, the IDECO company has the right to the restriction of participation of this bidder in all of the company's bids for the duration seen appropriate.
- 37. The Irbid Electricity Company shall be entitled to penalize the contractor (late to supply the required materials by tender or tender) the value of the fine due to the Irbid Electricity Company imposed by the Regulatory Authority of the Energy Sector as a result of the company's failure to comply with the required periods in executing the specified subscriber transactions Treatment is the delay of the supplier in the supply of material or materials necessary in the implementation of transactions subscribers

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, equipment 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 anything 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.

6. 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.

7. 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.

8. 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.

9. 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 (75/2022).

10. 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.

11. 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.

12. 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.

Inspection and Testing

1. General Requirement

The whole of the material by the contract will be subject to inspection and testing by the engineer during manufacture and on completion. The approval of the engineer or the passing of any such inspection or test will no, however; prejudice the right of the purchaser to reject the material if it fails to comply with the specification when erected or to give complete satisfaction in service. The costs of all tests and inspection shall be borne by the contractor and shall be deemed to be included in the contract price. Before any material is packed or dispatched from the main or sub-contractor's works, all tests called for are to have been successfully carried out in presence of the engineer.

Adequate notice shall be given when the material is ready for inspection or test and every facility shall be provided by the contractor and his inspection and his sub-contractors to enable the Engineer to carry out the necessary inspections and tests.

Triplicate copies of all principal test records and test certificates shall be supplied to the Engineer for all tests carried out in accordance with the provisions of the contract.

2. Sub-Contractors

Within two months of acceptance of the tenders the contractor shall forward to the engineer a list of all sub-orders placed or intended. The contractor shall submit three copies of all sub-orders or selected by the engineer for progress or inspection. One copy of all drawings referred to in the sub-order is to be submitted unless otherwise agreed by the engineer. The drawings and sub-orders submitted to the engineer will cover all major components which are subject to electrical and mechanical pressure or stress when the material is in operation and also auxiliaries and stores which will be dispatched to site direct from the sub-order. Sub-orders are to include a statement advising the sub-contractor that the items being order will be subject to inspection and test by the Engineer. It is important that all copies of such orders are clearly marked with the main contractor's name and the following reference:

IRBID DISTRICT ELECTRICITY Co. CONTRACT No (75/2022)

Sub-Contractors are to comply with all the applicable requirements of this specification. Orders issued by the sub-contractor are also to include the main contractor's reference on their sub-order in addition to the above-mentioned heading.

3. Material Tests

The contractor shall provide test prices as required by the engineer to enable him to determine the quality of the material supplied free of charge and any cost of the tests shall be borne by the contractor. If any test pieces fails to comply with the requirements of the appropriate specifications for the material in question, the engineer may reject the whole of the material represented by that piece, the contractor's designers and metallurgists will be consulted before any material is so rejected. In the event of the engineer being furnished with the certified particulars of the tests which have been carried out for the contractor by the suppliers of the material, he may, at his own discretion, dispense with the previously mentioned tests entirely.

4. Tests at Manufacture's Works

Works tests shall include all routine, electrical, mechanical and hydraulic tests in accordance with the relevant IEC standard or other standard may be approved except where departures there from and modifications thereto are embodied in this specification. For material not covered by an IEC or British standard or specifically mentioned in this specification the tests shall be agreed with the Engineer. After satisfactory completion of the witnessed tests at the works, the material shall be submitted for the engineer's approval preparatory to shipping. No item of material is to be dispatched to site until the Engineer has given his approval in writing.

5. Test Certificates

Triplicate sets of all principal test records test certificates and performance curves shall be supplied for all tests carried out in accordance with the provisions of this contract. These test records, certificates and performance curves shall be supplied for all tests, whether or not they have been witnessed by the engineer. The information given in such test certificates and curves shall be sufficient to identify the material or equipment to which the certificates refers and should also bear the contract reference and heading as given in clause 7.2 of this section.

6. Rejection of Plant

IF Any item of material or component which fails comply with the requirements of this specification in any respect whatsoever at any stage of manufacture, test, erection or on completion at site may be rejected by the engineer either in whole or in part as he considers necessary, and after adjustment or modification if so directed by the Engineer, the contractor shall submit the item for the item for the further inspection and / or test. In the event defects of such a nature that the requirements of this specification cannot be fulfilled by adjustment or modification shall be replaced by the contractor, at his own expense, to the entire satisfaction of the engineer.

7. Maintenance

The contractor is to guarantee the efficient and good working of the material supplied under the contract for a period of twelve months (Gregorian) from the date of delivery of the material to Irbid, in accordance with the General conditions of contract.

8. Tests

All tests meet the requirements of latest international standard mentioned in the contract or any relevant standard.

Irbid District Electricity Co.

Form of Bid Bond

Tender No. (75/2022)

Dear Sir,

We are pleased to inform you that we guarantee M/Sin order to allow them to submit an offer for the due performance of the undertaking and obligation as specified in their Tender for Contract No.This Guarantee shall remain valid for a period of one hundred twenty days from the time fixed for opening the Tenders by IRBID DISTRICT ELECTRICITY CO. LTD.

This Guarantee shall be free from any interest and will be extended or paid in cash upon your first request in any or required, without the need for natural warning or judicial proceedings and without any rights to delay, oppose, or stop payment on our part, or on the part of the Tenderer or any of his representatives whom over. This Guarantee shall be deemed valid until the submittal of a duly executed Performance Bond.

Signed...... Bank (Surety)

Irbid District Electricity Co. Ltd.

Form of Performance Bond

Tender No. (75/2022)

Dear Sirs,

At the	request of				banl	k (the Foi	reign Banl	k) and	on
behalf	of M/S					Con	tractor's N	lame a	and
Addres	s), we		Bank (the	Local Bank) issue	e in your fa	avor our ir	revoca	able
and	unconditional	Performance	Bond	No		in	the	amo	ount
of			(In	word),	in	this	connecti	on	we
		Bank (the	Local Ban	k) hereby c	onside	er ourselv	es respon	sible fo	orth
uncond	ditional payment to	you or to your a	authorized	representat	ives of	f the abov	e sum on	your i	first
written	demand in whole	or in part notwith	nstanding a	ny objectio	ns on	the part of	of the abo	ve nar	ned
contrac	ctor and without ar	ny need for natura	al warning	or judicial p	roceed	dings.			

This Bond will expire on and shall be renewed automatically for a period of months and for consecutive similar periods until it is returned by you to us.

Signed Bank (Surety)

Technical specification

Item No.	Material Description	stock code
1	Rated 12kV, Extensible, Motorized, very compact-sized, vacuum type interrupter, Ring Main Unit, with two rated 630 A main feeders and Two rated 630 A Tee-Off Circuit Breakers.	
1.1	DC batteries 24V DC and charger 240 VAC/24V DC .	6110-3082
1.2	Single phase voltage transformer 11/0.400 KV line to line	6110-3081

1. Climate Particulars:

The following is applicable unless otherwise is mentioned:

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1	Maximum Ambient Temperature	50 Co				
2	Minimum Ambient Temperature	-10 Co				
3	Design temperature	75 Co				
4	Maximum daily range of air temperature	20 Co				
5	Maximum Wind Pressure	700 n/m2				
6	Ice Thickness	10 mm				
7	Snow Falls	1-4 days – 30 cm				
8	Site altitude	0-1400m ASL				
9	Average annual rainfall	40cm during November–April				
10	Relative humidity in the range	30 to 60%				
11	Average number of thunder storms	15 days / year				
12	Prevailing wind winter average daily approximately 5-8 m/s, with gust up to 30 m/s.					
	Summer wind average afternoon 10-13 m/s, during morning generally light and					
13	variable, gust speed up to 30 m/s					

2. Power System Particulars;

The plant and materials supplied shall be suitable in all respect for continuous operation in the existing system having the following data:

1	Normal Voltage	415V	11KV	33KV
2	Maximum Voltage	500V	12KV	36KV
3	No. Of phases	3	3	3
4	System frequency (Hz)	50	50	50
5	No. of wires	5	3	3
6	Fault level (MVA)	25	350	1500
7	Fault Current / Duration	*	*	20 kA / 3s
8	Earth Fault Current / Duration	*	3 kA / 3s	3 kA / 3s
9	Neutral point Earthing	Solid	Resistance	Resistance
10	Conductor arrangement	Vertical	Horizontal	Horizontal

3. RMU's supplied under this Contract / specifications for item no. (1) Shall be motorized RMU, and vacuum type for the interrupters in the form of a metal enclosed, extensible type and very compacted size suitable for outdoor/indoor floor mounting on 50 Hz systems, with system nominal voltage of 11 kV. <u>Two main motorized/ manual switches rated at 630A in both</u>

incoming and outgoing side, and two motorized / manual in tee off circuit breakers rated at 630A, shall be arranged where specified to form an extensible 11 kV ring main units, at the outgoing side or incoming side as illustrated in drawings No.1 & No.2 which shall be provided as complete insulated assemblies ready for installation. The extension of such assemblies shall be possible without having to relocate the RMU, RMU's shall have a rated normal current of 630A, and capable of withstanding the duty cycle for 350 MVA at 11 kV. The rated short - circuit making capacity and rated short time current shall apply when operated to the "ON "and to the "Earth ON "positions. each tee off circuit breakers shall be equipped with a protective relay adjustable type as specified below. Incoming sides shall be equipped with a fault indicator. Testing facilities shall be provided for carrying out tests on the feeder connected to the RMU. and the charging mechanism shall be energized during ON & OFF operation only, closing and tripping circuits for open / close remotely commands shall be provided where this circuits must be consisting interlocking circuit between open / close remote commands, terminal blocks with 8 contacts for each side (2 for open/close command, 2 for open/close indication, 2 for earth switch open/close indication, 1 for over current trip, 1 for earth fault trip) must be provided. Lockable selector switch (Local / Supervisory) must be provided. Battery supplying motors shall be charged by a suitableVT supplying a charger. 24 V DC motors is suitable to charge a charging mechanism. 24 V DC & 5A auxiliary N.O & N.C contact for incoming, outgoing switches and tee – off circuit breakers shallbe provided. Manual operation ON-OFF Earth shall be added and easy for use, with interlock to prevent Earthing an energized cable. Charging mechanism, motors Auxiliary contacts and other circuits shall be built in inside the RMU. The operation mechanisms and interlocks shall comply with the attention that for the purpose of applying these clauses the word "transformer" whenever is mentioned in this clause shall mean "transformer feeder" (the feeder connected to the Teeoff). Each side shall be completed with cable box suitable for accepting 3 core 11 kV cables having cross section of 300 mm² Al, XLPE When the cable box is removed the rear of the transformers feeder circuit breakers complete with flange plate and bushing shall be suitable for direct connection to the transformer feeder having higher voltage of 11 kV, the Tenderer is required to submit full details, drawings of the Tee-off circuit breakers offered and the connection arrangement between the Tee-off circuit breakers and the transformer feeder when both have their cable boxes removed. All safety facility shall be applied in case of using switches and circuitbreaker. Ratio of C.T shall be 400/200/5 Amp.

The protective relay should be electrostatic type and should have the following specifications:

- User-friendly setting procedure.
- Self-powered.
- Earth fault, overcurrent and overload protection relay.
- Selectable protection functions between:
 - Definite time.
 - Inverse time.
 - Instantaneous time.
- Selectable inverse time characteristics acc. to IEC.

- Normal inverse.
- Very inverse.
- Extremely inverse.
- Self-reset function.
- High-accuracy components and over-rating guarantee precision, reliability and a long Service life.
- Trip indication via external flag indicator with mechanical reset.
- Compact construction.
- Insensitive to extreme environmental conditions.

4. DC batteries and charger.

Tenderer must provide indoor AC-DC charger to supply control circuits with necessary DC and to charge 24 V DC motors that will be used to charge a charging mechanism.

Batteries to supply control circuits with necessary DC and to charge 24 V DC motors that will be used to charge a charging mechanism shall be provided; these batteries shall be charged by above mention charger.

In normal operation condition control circuits and motors shall be energized from charger, at the time of absence of the AC power supply control circuits and motors shall be fed from Batteries automatically via suitable control circuit. However, at the time of re-energizing AC power supply control circuit automatically shall change the supply to be from AC power supply.

5. VT single phase (voltage transformer) (11/ $\sqrt{3}$: 0.400/ $\sqrt{3}$) KV.

- single phase voltage transformer (Built-in or through cabinet mounted on the transformer feeder) at incoming side $(11/\sqrt{3}: 0.400/\sqrt{3})$ KV with suitable burden for each RMU and Feeder Switch shall be provided to supply control circuits with necessary DC supply and to charge 24 V DC motors via AC-DC charger.
- The VT connected to the RMU'S bus bar through mv fuse.
- 6. The R.M.U shall be manufactured in accordance with the following standards and any relevant standard with latest edition.
 - a) IEC 62271-100
 - b) IEC 62271-200
 - c) IEC 62271-1
 - d) IEC 62271-102
 - e) IEC 62271-103
 - f) IEC 68169 2& 3
 - g) IEC 60137
 - h) BS 159
 - i) IEC 60060-1
 - j) IEC 60255

- k) IEC 61810-2
- 1) IEC 61000-4
- m) IEC 60529
- n) ENATS 41-36 distribution switchgear for service up to 36 kV.
- **7. Insulation Level:** The rated lightning impulse withstand voltage of switchgear and equipment when tested in accordance with IEC standard shall be 75 kV (peak) for 12 kV systems.
- 8. Type And Design: The equipment shall comply with the appropriate IEC standards, unless amended to the contrary in this specification or other standards are specifically mentioned, each equipment shall be for free standing situations, rigid and stable on their own supports and shall be rust proof, rodent and insect proof, each equipment shall also be capable of operating in tropical and humid conditions and have suitable weather proof covers to prevent ingress of moisture into any compartment containing parts which may be live. External surface shall not create water traps. Access to handles for operation and access for viewing of indications and instruction labels shall be on side only. This does not necessarily mean that all operating handles shall be located on one side only. Instructions for the assembly of equipment shall be provided by the manufacturer. The instructions shall cover the method in which all items required under this tender shall be extended using the adjustments provided, in the sequence necessary bus bar coupling links. Equipment shall be designed for minimum maintenance. Adjustment of mechanisms shall not be required at less than 1000 operation. Regular maintenance shall not be required at less than five-year intervals apart from any maintenance due to unusual climatic, service or environmental conditions. switches and Tee-off circuit breakers shall have three operating positions: "ON ", "OFF ", and "Earth ON "with an interlock to prevent "Earth ON" position making while the cable is energized.
- **9. Bus bars and connections to switches:** The normal current rating of bus bars connections and each current carrying component shall be 630A minimum and the temperature rise conditions shall be in accordance with or the appropriate IEC Recommendations. Tenderer are requested to state in the schedule of particulars the permissible over load rating for the switchgear operating under emergency conditions at an ambient temperature 50Co each equipment shall be capable of withstanding the specified 3 phase short circuit current for a period of three seconds.
- **10. Main switches and circuit breakers:** Each switch and circuit breaker shall have a rated normal current of 630 A. Each switch and circuit breakers equipment shall have a rated short-circuit making capacity and short-t time rating equivalent to 350 MVA at 11 KV. The rated short-circuit making capacity and rated short-time current shall apply when operated to the "ON" and "Earth ON" positions. The operating mechanisms and inter locks shall be in accordance to the ENA 41- 12 clause 8.3 and 8.6 as appropriate. Testing facilities shall be provided for carrying out test on the feeder connected to the switches and

to the circuit breakers. Each switch and circuit breaker shall be complete with cable box suitable for accepting cable with 300 mm2 cross-sections, Al \setminus XLPE, 3 cores 11 KV.

- 11. Earthing, Testing Facilities, Cable boxes and painting: Each Tee-off circuit breaker and switch shall be provided with facilities for carrying out applied high voltage tests and injected current tests on the feeder connected to the switches and to circuit breakers and this shall be effected by the insertion of a three phase plug in testing device when the switch and circuit breakers is in the "Earth" position, to become effective when the switch and circuit breakers is in the "OF" position. Four sets of these test plugs shall be supplied under this contract the cost of which deemed to be included in the contract prices. Tests access covers shall be provided with padlocking facilities and fully water proofed. If SF6 R.M. U's where offered, gas pressure gage shall be supplied with test plug mentioned above. Each equipment shall be provided with a main earth bar of not less than 40 mm X 2.5 h.d.h.c. copper strip or equivalent. The earth bar shall be bolted to the main frame and conveniently provide facilities for Earthing cable sheaths and cable
- 12. glands. Cable boxes for all sides shall be suitable for 11 KV 3-core aluminium conductors, paper or XLPE insulated, screened, load sheathed and armoured, of any conductor size up to and including 300 mm2. Compound-filled cable dividing and sealing boxes shall comply with the requirements of relevant BS or equivalent and shall be supplied under this contract, the cost of which deemed to be included in the contract prices. All cable boxes fitted it each switch and circuit breaker or oil circuit breaker or supplied under this section, shall be for heat shrink termination shall be fitted with insulated glands for the purpose of fitting earth fault indicating equipment. Each Tee-Off circuit breaker and switches shall be supplied with all necessary materials, extensible busbar set should be insulated in addition to supply insulation kit for the remaining extensible parts that should be insulated, bus bar duct, gasket, screws, ... etc.) needed to connect one side of its bus bar from the insulated extension side to other RMU or Feeder switch supplied under this section. Drawing of the extension joint shall be submitted with the tenderer offer for approval. Each equipment supplied under this section shall be painted in accordance with requirements of relevant standard. Each equipment shall be supplied with all necessary materials, fuses, compound, sealing boxes; cable lugs glands, etc., needed to make it ready for erection and operation.

13. **IDECO Requirements**

13.1 general requirements:

- The RMU'S enclosure shall have minimum IP 54 include all cabinet such as (control cabinet, cable cabinet, bus bare cabinet), these cabinet shall be sealed.
- Cable boxes for all sides shall be suitable for 11 KV 3-core aluminium conductors, paper or XLPE insulated, screened, load sheathed and armoured, of any conductor size up to and including 300 mm2 (usually for conductor size 3*150 mm2 and 3*300 mm2). And each RMU shall be supplied with all necessary materials such as cable gland.
- **The upper side of the RMU'S body** / **enclosure** shall be contain from one piece without holes (An alternative option: the RMU shall be equipped with a top umbrella to protect it from the rainwater).

Note: the entries of control cables shall not be from the top side of the enclosure

- All metal parts inside the RMU shall be non-corrosive (corrosion resistant).
- Suitable space shall be provided in RMU's enclosure (40*40*40) cm3 to be used for control circuit (mini RTU).

13.2 control and protection:

- its **preferred** to provide separate Control circuit from motor circuit by separate mcbs
- its **preferred** to provides Panel with ac socket.
- Battery size shall be suitable for all RMU'S loads with addition of 30% overdesign for ideco's uses
- The relay shall be suppled from the battery when the ac supply is disconnected.
- Its preferred to provide Heater circuit
- Charger circuit must be provided with separate miniature circuit breaker.
- Outputs of the charger must be separate for the protection relay and batteries (the charger should have output for protection relay and other one for batteries).

14. Testing and certificate:

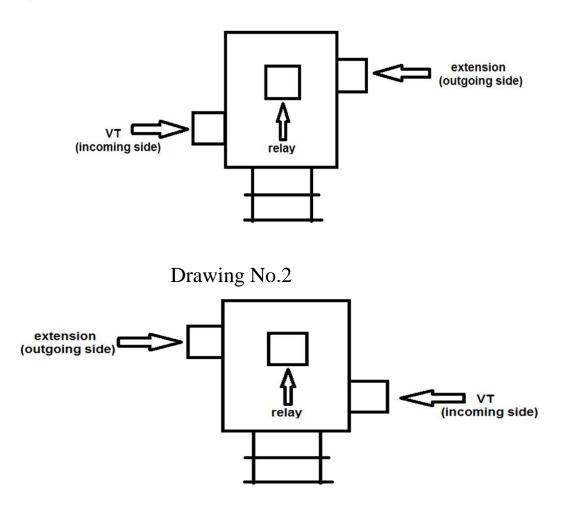
14.1 type test

- Units should be type tested in accordance with standards IEC 62271-100/200/102/103 and 60529 or other relevant standards.
- Type test report shall be submitted with the offer |.

14.2 Routine test:

should be carried out in accordance with IEC 62271-200 or other relevant standards.

Drawing No.1



Schedule (1)

Technical Particulars and Guarantees Extensible R.M.U 11 KV with <u>two tee-off</u> This schedule shall be completed by Tenderer.

No	Particular	Yes	No
1	Extensible		

No	particular	unit	11 K.V R.M.U	Tee off Switch	Main Switch
1	Manufacturer				
2	Type Number				
3	Insulation medium				
4	Degree of protection (IP)				
5	Class				
6	Normal current rating	Amp			
7	Breaking current				
8	Making capacity (peak)	KAmp			
	Short-circuit withstand current				
9	a) For one second	KAmp			
	b) For three seconds	KAmp			
10	Earth switch making (peak)	KAmp			
	Earth switch Short-circuit withstand curr	ent			
11	a) For one second	КАтр			
	b) For three seconds	КАтр			
12	Type Test Certificate				
13	Type Test Authority				
14	Report reference				
15	Number of breaks in circuit Per pole				
16	Total length of break per pole	mm			
17	Type of main contact				
18	Type of arcing contacts and /or control device				
	Minimum clearance in air				
19	a) Between Two poles	mm			
	b) Between live parts and earth	mm			
20	No. of auxiliary contact				
21	D.C supply voltage				
22	Closing circuit type				
23	tripping circuit type				

Item No.	Material Description	stock code
2	Rated 12kV, Extensible, Motorized, very compact-sized, vacuum	
	type interrupter, Ring Main Unit, with two rated 630 A main feeders and <u>one</u> rated 630 A Tee-Off Circuit Breaker.	6110-2821
2.1	DC batteries 24V DC and charger 240 VAC/24V DC	6110-2822
2.2	Single phase voltage transformer 11/0.400 KV line to line	6110-2842

15. Climate Particulars:

The following is applicable unless otherwise is mentioned:

1110 101	towing is applicable unless ould wise is mentione	
1	Maximum Ambient Temperature	50 Co
2	Minimum Ambient Temperature	-10 Co
3	Design temperature	75 Co
4	Maximum daily range of air temperature	20 Co
5	Maximum Wind Pressure	700 n/m2
6	Ice Thickness	10 mm
7	Snow Falls	1-4 days – 30 cm
8	Site altitude	0-1400m ASL
9	Average annual rainfall	40cm during November–April
10	Relative humidity in the range	30 to 60%
11	Average number of thunder storms	15 days / year
12	Prevailing wind winter average daily approx	imately 5-8 m/s, with gust up to 30 m/s.
	Summer wind average afternoon 10-13 i	m/s, during morning generally light and
13	variable, gust speed up to 30 m/s	

16. Power System Particulars;

The plant and materials supplied shall be suitable in all respect for continuous operation in the existing system having the following data:

1	Normal Voltage	415V	11KV	33KV
2	Maximum Voltage	500V	12KV	36KV
3	No. Of phases	3	3	3
4	System frequency (Hz)	50	50	50
5	No. of wires	5	3	3
6	Fault level (MVA)	25	350	1500
7	Fault Current / Duration	*	*	20 kA / 3s
8	Earth Fault Current / Duration	*	3 kA / 3s	3 kA / 3s
9	Neutral point Earthing	Solid	Resistance	Resistance
10	Conductor arrangement	Vertical	Horizontal	Horizontal

17. **R.M.U's** supplied under this Contract / specifications Shall be motorized RMU, and vacuum type for the interrupters in the form of a metal enclosed, extensible type and very compacted size suitable for outdoor/indoor floor mounting on 50 Hz systems, with system nominal voltage of 11 kV. <u>Two main motorized/ manual switches rated at 630A in</u> both incoming and outgoing side, and one motorized / manual in tee off circuit

breaker rated at 630A, shall be arranged where specified to form an extensible 11 kV ring main units, at the outgoing side or incoming side as illustrated in drawings No.1 & No.2 which shall be provided as complete insulated assemblies ready for installation. The extension of such assemblies shall be possible without having to relocate the RMU, RMU's shall have a rated normal current of 630 A, and capable of withstanding the duty cycle for 350 MVA at 11 kV. The rated short – circuit making capacity and rated short time current shall apply when operated to the "ON "and to the "Earth ON "positions. tee off circuit breaker shall be equipped with a protective relay adjustable type as specified below. Incoming sides shall be equipped with a fault indicator. Testing facilities shall be provided for carrying out tests on the feeder connected to the RMU. and the charging mechanism shall be energized during ON & OFF operation only, closing and tripping circuits for open / close remotely commands shall be provided where this circuits must be consisting interlocking circuit between open / close remote commands, terminal blocks with 8 contacts for each side (2 for open/close command, 2 for open/close indication, 2 for earth switch open/close indication, 1 for over current trip, 1 for earth fault trip) must be provided. Lockable selector switch (Local / Supervisory) must be provided. Battery supplying motors shall be charged by a suitable VT supplying a charger. 24 V DC motors is suitable to charge a charging mechanism. 24 V DC & 5A auxiliary N.O & N.C contact for incoming, outgoing and tee – off circuit breakers shall be provided. Manual operation ON-OFF Earth shall be added and easy for use, with interlock to prevent Earthing an energized cable. Charging mechanism, motors Auxiliary contacts and other circuits shall be built in inside the RMU. The operation mechanisms and interlocks shall comply with the attention that for the purpose of applying these clauses the word "transformer" whenever is mentioned in this clause shall mean "transformer feeder" (the feeder connected to the Tee-off). Each side shall be completed with cable box suitable for accepting 3 core 11 kV cables having cross section of 300 mm2 Al, XLPE When the cable box is removed the rear of the transformers feeder circuit breakers complete with flange plate and bushing shall be suitable for direct connection to the transformer feeder having higher voltage of 11 kV, the Tenderer is required to submit full details, drawings of the Tee-off circuit breaker offered and the connection arrangement between the Tee-off circuit breaker and the transformer feeder when both have their cable boxes removed. All safety facility shall be applied in case of using switches and circuit breaker. Ratio of C.T shall be 400/200/5 Amp.

The protective relay should be electrostatic type and should have the following specifications:

- User-friendly setting procedure.
- Self-powered.
- Earth fault, overcurrent and overload protection relay.
- Selectable protection functions between:
 - Definite time.
 - Inverse time.
 - Instantaneous time.
- Selectable inverse time characteristics acc. to IEC.

- Normal inverse.
- Very inverse.
- Extremely inverse.
- Self-reset function.
- High-accuracy components and over-rating guarantee precision, reliability and a long Service life.
- Trip indication via external flag indicator with mechanical reset.
- Compact construction.
- Insensitive to extreme environmental conditions.

18. DC batteries and charger.

Tenderer must provide indoor AC-DC charger to supply control circuits with necessary DC and to charge 24 V DC motors that will be used to charge a charging mechanism.

Batteries to supply control circuits with necessary DC and to charge 24 V DC motors that will be used to charge a charging mechanism shall be provided; these batteries shall be charged by above mention charger.

In normal operation condition control circuits and motors shall be energized from charger, at the time of absence of the AC power supply control circuits and motors shall be fed from Batteries automatically via suitable control circuit. However, at the time of re-energizing AC power supply control circuit automatically shall change the supply to be from AC power supply.

19. VT single phase (voltage transformer) ($11/\sqrt{3}$: 0.400/ $\sqrt{3}$) KV.

- single phase voltage transformer (Built-in or through cabinet mounted on the transformer feeder) at incoming side $(11/\sqrt{3}: 0.400/\sqrt{3})$ KV with suitable burden for each RMU and Feeder Switch shall be provided to supply control circuits with necessary DC supply and to charge 24 V DC motors via AC-DC charger.
- The VT connected to the RMU'S bus bar through mv fuse.
- 20. The R.M.U shall be manufactured in accordance with the following standards and any relevant standard with latest edition.
 - o) IEC 62271-100
 - p) IEC 62271-200
 - q) IEC 62271-1
 - r) IEC 62271-102
 - s) IEC 62271-103
 - t) IEC 68169 2& 3
 - u) IEC 60137
 - v) BS 159
 - w) IEC 60060-1
 - x) IEC 60255

- y) IEC 61810-2
- z) IEC 61000-4
- aa) IEC 60529
- bb) ENATS 41-26 distribution switchgear for service up to 36 kV.
- **21. Insulation Level:** The rated lightning impulse withstand voltage of switchgear and equipment when tested in accordance with IEC standard shall be 75 kV (peak) for 12 kV systems.
- **Type And Design:** The equipment shall comply with the appropriate IEC standards, 22. unless amended to the contrary in this specification or other standards are specifically mentioned, each equipment shall be for free standing situations, rigid and stable on their own supports and shall be rust proof, rodent and insect proof, each equipment shall also be capable of operating in tropical and humid conditions and have suitable weather proof covers to prevent ingress of moisture into any compartment containing parts which may be live. External surface shall not create water traps. Access to handles for operation and access for viewing of indications and instruction labels shall be on side only. This does not necessarily mean that all operating handles shall be located on one side only. Instructions for the assembly of equipment shall be provided by the manufacturer. The instructions shall cover the method in which all items required under this tender shall be extended using the adjustments provided, in the sequence necessary bus bar coupling links. Equipment shall be designed for minimum maintenance. Adjustment of mechanisms shall not be required at less than 1000 operation. Regular maintenance shall not be required at less than five-year intervals apart from any maintenance due to unusual climatic, service or environmental conditions. switches and Tee-off circuit breakers shall have three operating positions: "ON ", "OFF ", and "Earth ON "with an interlock to prevent "Earth ON" position making while the cable is energized.
- **23. Bus bars and connections to switches:** The normal current rating of bus bars connections and each current carrying component shall be 630A minimum and the temperature rise conditions shall be in accordance with or the appropriate IEC Recommendations. Tenderer are requested to state in the schedule of particulars the permissible over load rating for the switchgear operating under emergency conditions at an ambient temperature 50Co each equipment shall be capable of withstanding the specified 3 phase short circuit current for a period of three seconds.
- 24. Main switches and circuit breakers: Each switch and circuit breaker shall have a rated normal current of 630 A. Each switch and circuit breakers equipment shall have a rated short-circuit making capacity and short-t time rating equivalent to 350 MVA at 11 KV. The rated short-circuit making capacity and rated short-time current shall apply when operated to the "ON" and "Earth ON" positions. The operating mechanisms and inter locks shall be in accordance to the ENA 41- 12 clause 8.3 and 8.6 as appropriate. Testing facilities shall be provided for carrying out test on the feeder connected to the switches and

to the circuit breakers. Each switch and circuit breaker shall be complete with cable box suitable for accepting cable with 300 mm2 cross-sections, Al $\ XLPE$, 3 cores 11 KV.

- **25. Earthing, Testing Facilities, Cable boxes and painting:** Each Tee-off circuit breaker and switch shall be provided with facilities for carrying out applied high voltage tests and injected current tests on the feeder connected to the switches and to circuit breakers and this shall be effected by the insertion of a three phase plug in testing device when the switch and circuit breakers is in the "Earth" position, to become effective when the switch and circuit breakers is in the "OF" position. Four sets of these test plugs shall be supplied under this contract the cost of which deemed to be included in the contract prices. Tests access covers shall be provided with padlocking facilities and fully water proofed. If SF6 R.M. U's where offered, gas pressure gage shall be supplied with test plug mentioned above. Each equipment shall be provided with a main earth bar of not less than 40 mm X 2.5 h.d.h.c. copper strip or equivalent. The earth bar shall be bolted to the main frame and conveniently provide facilities for Earthing cable sheaths and cable
- 26. glands. Cable boxes for all sides shall be suitable for 11 KV 3-core aluminium conductors, paper or XLPE insulated, screened, load sheathed and armoured, of any conductor size up to and including 300 mm2. Compound-filled cable dividing and sealing boxes shall comply with the requirements of relevant BS or equivalent and shall be supplied under this contract, the cost of which deemed to be included in the contract prices. All cable boxes fitted it each switch and circuit breaker or oil circuit breaker or supplied under this section, shall be for heat shrink termination shall be fitted with insulated glands for the purpose of fitting earth fault indicating equipment. Each Tee-Off circuit breaker and switches shall be supplied with all necessary materials, extensible busbar set should be insulated in addition to supply insulation kit for the remaining extensible parts that should be insulated, bus bar duct, gasket, screws, ... etc.) needed to connect one side of its bus bar from the insulated extension side to other RMU or Feeder switch supplied under this section. Drawing of the extension joint shall be submitted with the tenderer offer for approval. Each equipment supplied under this section shall be painted in accordance with requirements of relevant standard. Each equipment shall be supplied with all necessary materials, fuses, compound, sealing boxes; cable lugs glands, etc., needed to make it ready for erection and operation.

27. **IDECO Requirements**

27.1 general requirements:

- The RMU'S enclosure shall have minimum IP 54 include all cabinet such as (control cabinet, cable cabinet, bus bare cabinet), these cabinet shall be sealed.
- Cable boxes for all sides shall be suitable for 11 KV 3-core aluminium conductors, paper or XLPE insulated, screened, load sheathed and armoured, of any conductor size up to and including 300 mm2 (usually for conductor size 3*150 mm2 and 3*300 mm2). And each RMU shall be supplied with all necessary materials such as cable gland.
- **The upper side of the RMU'S body** / **enclosure** shall be contain from one piece without holes (An alternative option: the RMU shall be equipped with a top umbrella to protect it from the rainwater).

Note: the entries of control cables shall not be from the top side of the enclosure

- All metal parts inside the RMU shall be non-corrosive (corrosion resistant).
- Suitable space shall be provided in RMU's enclosure (40*40*40) cm3 to be used for control circuit (mini RTU).

27.2 control and protection:

- its **preferred** to provide separate Control circuit from motor circuit by separate mcbs
- its **preferred** to provides Panel with ac socket.
- Battery size shall be suitable for all RMU'S loads with addition of 30% overdesign for ideco's uses
- The relay shall be suppled from the battery when the ac supply is disconnected.
- Its preferred to provide Heater circuit
- Charger circuit must be provided with separate miniature circuit breaker.
- Outputs of the charger must be separate for the protection relay and batteries (the charger should have output for protection relay and other one for batteries).

28. Testing and certificate:

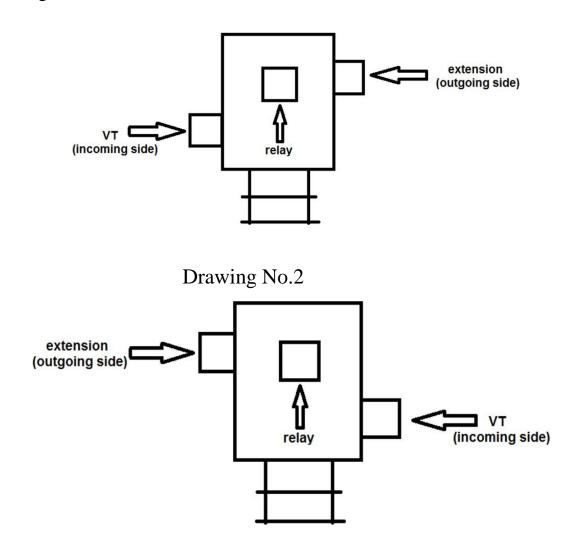
28.1 type test

- Units should be type tested in accordance with standards IEC 62271-100/200/102/103 and 60529 or other relevant standards.
- Type test report shall be submitted with the offer |.

28.2 Routine test:

should be carried out in accordance with IEC 62271-200 or other relevant standards.

Drawing No.1



Schedule (2) Technical Particulars and Guarantees Extensible R.M.U 11 KV with <u>one tee-off</u> This schedule shall be completed by Tenderer.

No	Particular	Yes	No
1	Extensible		

No	particular	unit	11 K.V R.M.U	Tee off Switch	Main Switch
1	Manufacturer				
2	Type Number				
3	Insulation medium				
4	Degree of protection (IP)				
5	Class				
6	Normal current rating	Amp			
7	Breaking current				
8	Making capacity (peak)	КАтр			
	Short-circuit withstand current				
9	a) For one second	KAmp			
	b) For three seconds	KAmp			
10	Earth switch making (peak)	KAmp			
	Earth switch Short-circuit withstand curr	ent			
11	a) For one second	KAmp			
	b) For three seconds	KAmp			
12	Type Test Certificate				
13	Type Test Authority				
14	Report reference				
15	Number of breaks in circuit Per pole				
16	Total length of break per pole	mm			
17	Type of main contact				
18	Type of arcing contacts and /or control device				
	Minimum clearance in air				
19	a) Between Two poles	mm			
	b) Between live parts and earth	mm			
20	No. of auxiliary contact			Í	
21	D.C supply voltage				
22	Closing circuit type				
23	tripping circuit type				

Item No.	Material Description	stock code
3	Rated 12kV, Extensible, Motorized, very compact-sized,vacuum type interrupter, Feeder switch, with one rated 630 A main feeder and one rated 630 A Tee-Off Circuit Breaker.	6110-2825
3.1	DC batteries 24V DC and charger 240 VAC/24V DC .	6110-3826
3.2	Single phase voltage transformer 11/0.400 KV line to line	6110-3827

29. Climate Particulars:

The following is applicable unless otherwise is mentioned:

1	Maximum Ambient Temperature	50 Co
2	Minimum Ambient Temperature	-10 Co
3	Design temperature	75 Co
4	Maximum daily range of air temperature	20 Co
5	Maximum Wind Pressure	700 n/m2
6	Ice Thickness	10 mm
7	Snow Falls	1-4 days – 30 cm
8	Site altitude	0-1400m ASL
9	Average annual rainfall	40cm during November–April
10	Relative humidity in the range	30 to 60%
11	Average number of thunder storms	15 days / year
12	Prevailing wind winter average daily approx	imately 5-8 m/s, with gust up to 30 m/s.
	Summer wind average afternoon 10-13	m/s, during morning generally light and
13	variable, gust speed up to 30 m/s	

30. Power System Particulars;

The plant and materials supplied shall be suitable in all respect for continuous operation in the existing system having the following data:

1	Normal Voltage	415V	11KV	33KV
2	Maximum Voltage	500V	12KV	36KV
3	No. Of phases	3	3	3
4	System frequency (Hz)	50	50	50
5	No. of wires	5	3	3
6	Fault level (MVA)	25	350	1500
7	Fault Current / Duration	*	*	20 kA / 3s
8	Earth Fault Current / Duration	*	3 kA / 3s	3 kA / 3s
9	Neutral point Earthing	Solid	Resistance	Resistance
10	Conductor arrangement	Vertical	Horizontal	Horizontal

31. Feeder switch supplied under this Contract / specifications Shall be motorized switch, and vacuum type for the interrupters in the form of a metal enclosed, extensible type and very compacted size suitable for outdoor/indoor floor mounting on 50 Hz systems, with system nominal voltage of 11 kV. <u>One main motorized/ manual switch rated at 630A in incoming side, and one motorized / manual in tee off circuit breaker rated at 630A,</u>

shall be arranged where specified to form an extensible 11 kV circuit breaker, at the outgoing side or incoming side as illustrated in drawings No.1 & No.2 which shall be provided as complete insulated assemblies ready for installation. The extension of such assemblies shall be possible without having to relocate the switches. Feeder switch shall have a rated normal current of 630 A, and capable of withstanding the duty cycle for 350 MVA at 11 kV. The rated short – circuit making capacity and rated short time current shall apply when operated to the "ON "and to the "Earth ON "positions. tee off circuit breaker shall be equipped with a protective relay adjustable type as specified below. Incoming side shall be equipped with a fault indicator. Testing facilities shall be provided for carrying out tests on the feeder connected to the switches and circuit breakers. and the charging mechanism shall be energized during ON & OFF operation only, closing and tripping circuits for open / close remotely commands shall be provided where this circuits must be consisting interlocking circuit between open / close remote commands, terminal blocks with 8 contacts for each side (2 for open/close command, 2 for open/close indication, 2 for earth switch open/close indication, 1 for over current trip, 1 for earth fault trip) must be provided. Lockable selector switch (Local / Supervisory) must be provided. Battery supplying motors shall be charged by a suitable VT supplying a charger. 24 V DC motors is suitable to charge a charging mechanism. 24 V DC & 5A auxiliary N.O & N.C contact for incoming, and tee - off circuit breakers shall be provided. Manual operation ON-OFF Earth shall be added and easy for use, with interlock to prevent Earthing an energized cable. Charging mechanism, motors Auxiliary contacts and other circuits shall be built in inside the RMU. The operation mechanisms and interlocks shall comply with the attention that for the purpose of applying these clauses the word "transformer" whenever is mentioned in this clause shall mean "transformer feeder" (the feeder connected to the Teeoff). Each side shall be completed with cable box suitable for accepting 3 core 11 kV cables having cross section of 300 mm2 Al, XLPE When the cable box is removed the rear of the transformers feeder circuit breakers complete with flange plate and bushing shall be suitable for direct connection to the transformer feeder having higher voltage of 11 kV, the Tenderer is required to submit full details, drawings of the Tee-off circuit breakers offered and the connection arrangement between the Tee-off circuit breakers and the transformer feeder when both have their cable boxes removed. All safety facility shall be applied in case of using switch and circuit breaker. Ratio of C.T shall be 400/200/5 Amp.

The protective relay should be electrostatic type and should have the following specifications:

- User-friendly setting procedure.
- Self-powered.
- Earth fault, overcurrent and overload protection relay.
- Selectable protection functions between:
 - Definite time.
 - Inverse time.
 - Instantaneous time.
- Selectable inverse time characteristics acc. to IEC.
 - Normal inverse.

- Very inverse.
- Extremely inverse.
- Self-reset function.
- High-accuracy components and over-rating guarantee precision, reliability and a long Service life.
- Trip indication via external flag indicator with mechanical reset.
- Compact construction.
- Insensitive to extreme environmental conditions.

32. DC batteries and charger.

Tenderer must provide indoor AC-DC charger to supply control circuits with necessary DC and to charge 24 V DC motors that will be used to charge a charging mechanism.

Batteries to supply control circuits with necessary DC and to charge 24 V DC motors that will be used to charge a charging mechanism shall be provided; these batteries shall be charged by above mention charger.

In normal operation condition control circuits and motors shall be energized from charger, at the time of absence of the AC power supply control circuits and motors shall be fed from Batteries automatically via suitable control circuit. However, at the time of re-energizing AC power supply control circuit automatically shall change the supply to be from AC power supply.

33. VT single phase (voltage transformer) (11/ $\sqrt{3}$: 0.400/ $\sqrt{3}$) KV.

- single phase voltage transformer (Built-in or through cabinet mounted on the transformer feeder) at incoming side $(11/\sqrt{3}: 0.400/\sqrt{3})$ KV with suitable burden for each RMU and Feeder Switch shall be provided to supply control circuits with necessary DC supply and to charge 24 V DC motors via AC-DC charger.
 - The VT connected to the RMU'S bus bar through mv fuse.
- 34. The R.M.U shall be manufactured in accordance with the following standards and any relevant standard with latest edition.

```
cc) IEC 62271-100
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```
dd) IEC 62271-200
```

```
ee) IEC 62271-1
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- ff) IEC 62271-102
- gg) IEC 62271-103
- hh) IEC 68169 2& 3
- ii) IEC 60137
- jj) BS 159
- kk) IEC 60060-1
- ll) IEC 60255

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mm) IEC 61810-2
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- nn) IEC 61000-4
- oo) IEC 60529
- pp) ENATS 41-26 distribution switchgear for service up to 36 kV.
- **35. Insulation Level:** The rated lightning impulse withstand voltage of switchgear and equipment when tested in accordance with IEC standard shall be 75 kV (peak) for 12 kV systems.
- **Type And Design:** The equipment shall comply with the appropriate IEC standards, 36. unless amended to the contrary in this specification or other standards are specifically mentioned, each equipment shall be for free standing situations, rigid and stable on their own supports and shall be rust proof, rodent and insect proof, each equipment shall also be capable of operating in tropical and humid conditions and have suitable weather proof covers to prevent ingress of moisture into any compartment containing parts which may be live. External surface shall not create water traps. Access to handles for operation and access for viewing of indications and instruction labels shall be on side only. This does not necessarily mean that all operating handles shall be located on one side only. Instructions for the assembly of equipment shall be provided by the manufacturer. The instructions shall cover the method in which all items required under this tender shall be extended using the adjustments provided, in the sequence necessary bus bar coupling links. Equipment shall be designed for minimum maintenance. Adjustment of mechanisms shall not be required at less than 1000 operation. Regular maintenance shall not be required at less than five-year intervals apart from any maintenance due to unusual climatic, service or environmental conditions. switches and Tee-off circuit breakers shall have three operating positions: "ON ", "OFF ", and "Earth ON "with an interlock to prevent "Earth ON" position making while the cable is energized.
- **37. Bus bars and connections to switches:** The normal current rating of bus bars connections and each current carrying component shall be 630A minimum and the temperature rise conditions shall be in accordance with or the appropriate IEC Recommendations. Tenderer are requested to state in the schedule of particulars the permissible over load rating for the switchgear operating under emergency conditions at an ambient temperature 50Co each equipment shall be capable of withstanding the specified 3 phase short circuit current for a period of three seconds.
- **38. Main switches and circuit breakers:** Each switch and circuit breaker shall have a rated normal current of 630 A. Each switch and circuit breakers equipment shall have a rated short-circuit making capacity and short-t time rating equivalent to 350 MVA at 11 KV. The rated short-circuit making capacity and rated short-time current shall apply when operated to the "ON" and "Earth ON" positions. The operating mechanisms and inter locks shall be in accordance to the ENA 41- 12 clause 8.3 and 8.6 as appropriate. Testing facilities shall be provided for carrying out test on the feeder connected to the switches and

to the circuit breakers. Each switch and circuit breaker shall be complete with cable box suitable for accepting cable with 300 mm2 cross-sections, Al \setminus XLPE, 3 cores 11 KV.

- **39.** Earthing, Testing Facilities, Cable boxes and painting: Each Tee-off circuit breaker and switch shall be provided with facilities for carrying out applied high voltage tests and injected current tests on the feeder connected to the switches and to circuit breakers and this shall be effected by the insertion of a three phase plug in testing device when the switch and circuit breakers is in the "Earth" position, to become effective when the switch and circuit breakers is in the "OF" position. Four sets of these test plugs shall be supplied under this contract the cost of which deemed to be included in the contract prices. Tests access covers shall be provided with padlocking facilities and fully water proofed. If SF6 R.M. U's where offered, gas pressure gage shall be supplied with test plug mentioned above. Each equipment shall be provided with a main earth bar of not less than 40 mm X 2.5 h.d.h.c. copper strip or equivalent. The earth bar shall be bolted to the main frame and conveniently provide facilities for Earthing cable sheaths and cable
- 40. glands. Cable boxes for all sides shall be suitable for 11 KV 3-core aluminium conductors, paper or XLPE insulated, screened, load sheathed and armoured, of any conductor size up to and including 300 mm2. Compound-filled cable dividing and sealing boxes shall comply with the requirements of relevant BS or equivalent and shall be supplied under this contract, the cost of which deemed to be included in the contract prices. All cable boxes fitted it each switch and circuit breaker or oil circuit breaker or supplied under this section, shall be for heat shrink termination shall be fitted with insulated glands for the purpose of fitting earth fault indicating equipment. Each Tee-Off circuit breaker and switches shall be supplied with all necessary materials, extensible busbar set should be insulated in addition to supply insulation kit for the remaining extensible parts that should be insulated, bus bar duct, gasket, screws, ... etc.) needed to connect one side of its bus bar from the insulated extension side to other RMU or Feeder switch supplied under this section. Drawing of the extension joint shall be submitted with the tenderer offer for approval. Each equipment supplied under this section shall be painted in accordance with requirements of relevant standard. Each equipment shall be supplied with all necessary materials, fuses, compound, sealing boxes; cable lugs glands, etc., needed to make it ready for erection and operation.

41. **IDECO Requirements**

41.1 general requirements:

- The RMU'S enclosure shall have minimum IP 54 include all cabinet such as (control cabinet, cable cabinet, bus bare cabinet), these cabinet shall be sealed.
- Cable boxes for all sides shall be suitable for 11 KV 3-core aluminium conductors, paper or XLPE insulated, screened, load sheathed and armoured, of any conductor size up to and including 300 mm2 (usually for conductor size 3*150 mm2 and 3*300 mm2). And each RMU shall be supplied with all necessary materials such as cable gland.
- **The upper side of the RMU'S body** / **enclosure** shall be contain from one piece without holes (An alternative option: the RMU shall be equipped with a top umbrella to protect it from the rainwater).

Note: the entries of control cables shall not be from the top side of the enclosure

- All metal parts inside the RMU shall be non-corrosive (corrosion resistant).
- Suitable space shall be provided in RMU's enclosure (40*40*40) cm3 to be used for control circuit (mini RTU).

41.2 control and protection:

- its **preferred** to provide separate Control circuit from motor circuit by separate mcbs
- its **preferred** to provides Panel with ac socket.
- Battery size shall be suitable for all RMU'S loads with addition of 30% overdesign for ideco's uses
- The relay shall be suppled from the battery when the ac supply is disconnected.
- Its preferred to provide Heater circuit
- Charger circuit must be provided with separate miniature circuit breaker.
- Outputs of the charger must be separate for the protection relay and batteries (the charger should have output for protection relay and other one for batteries).

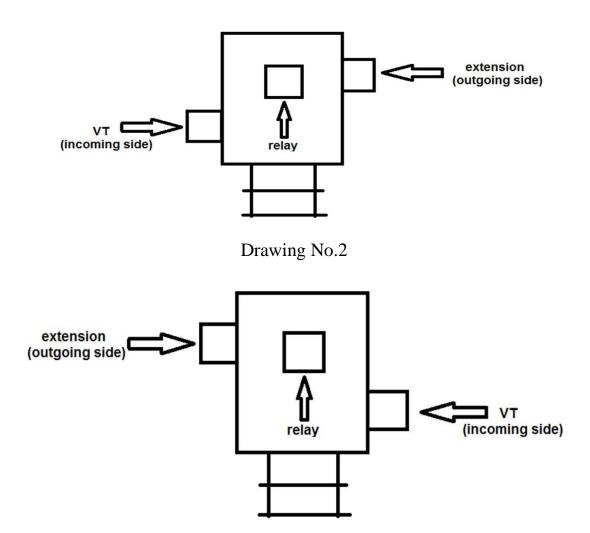
42. Testing and certificate:

42.1 type test

- Units should be type tested in accordance with standards IEC 62271-100/200/102/103 and 60529 or other relevant standards.
- Type test report shall be submitted with the offer |.

42.2 Routine test:

should be carried out in accordance with IEC 62271-200 or other relevant standards.



Drawing No.1

Schedule (3)

Technical Particulars and Guarantees <u>Extensible Feeder Switch</u> This schedule shall be completed by Tenderer.

No	Particular	Yes	No
1	Extensible		

No	particular	unit	11 K.V R.M.U	Tee off Switch	Main Switch
1	Manufacturer				
2	Type Number				
3	Insulation medium				
4	Degree of protection (IP)				
5	Class				
6	Normal current rating	Amp			
7	Breaking current				
8	Making capacity (peak)	KAmp			
	Short-circuit withstand current				
9	a) For one second	KAmp			
	b) For three seconds	KAmp			
10	Earth switch making (peak)	KAmp			
	Earth switch Short-circuit withstand curr	ent			
11	a) For one second	KAmp			
	b) For three seconds	KAmp			
12	Type Test Certificate				
13	Type Test Authority				
14	Report reference				
15	Number of breaks in circuit Per pole				
16	Total length of break per pole	mm			
17	Type of main contact				
18	Type of arcing contacts and /or control device				
	Minimum clearance in air				
19	a) Between Two poles	mm			
	b) Between live parts and earth	mm			
20	No. of auxiliary contact				
21	D.C supply voltage				
22	Closing circuit type				
23	tripping circuit type				

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: {»} Firm Prices,
- 2. The manufacturer has **shall** print on suitable metal name plate for the required materials the following message : *IDECO Contract No. (75/2022). Purchase order No. ().*
 - Stock code as seen in the invitation to tender table no.2 page (3).
 - manufacture name manufacturing date Serial number Country of origin QR code contains the above message.
- **3.** Maintenance instructions: Where the equipment / materials supplied are subject to maintenance during service the manufacturer shall submit for approval a draft of the recommended maintenance instructions. After approval the supplier shall supply any further copies required by the Engineer. These maintenance instructions shall be provided before the taking over of any part of the equipment.
- **4.** Catalogues: a set of the manufacturer's catalogues shall be attached to the tender.
- 5. The manufacturer shall to submit with his offer reference list for his product for the last five years ago.
- 6. The required materials in each purchase order shall be inspected by two IDECO's engineers in the country of origin of the required materials, and all related Inspection Costs (Visa, Air Tickets, Hotel, Accommodation, Transportation, etc.) of at least (2) IDECO representative engineers, at the manufacturer factory, to ensure the proper handling and operation of the supplied materials shall be borne by the contractor.
- 7. When the visit to a factory for evaluation purposes before signing the agreement is required, the tenderer must do all necessary arrangement for this visit; the related cost of visit by IDECO team will be borne by the manufacturer.
- **8.** The material safety data sheet (MSDS) of all equipment / materials is required to be submitted with the offer.
- **9.** The contractor shall nominate third party laboratory and cost of inspection by third party as shown in **Schedule No. 7**, in case the attendance of ideco engineers is not applicable due to any reason.
- **10.** The technical drawing approval shall be submitted during 7 days from order letter date, any delay in this period from contractor side, the delivery period will start after 7 days from order letter. (In case the contractor offered delivery period from order letter date and drawing approval).
- **11.** The purchaser has the complete right to reply on contractor's clarifications during 7 days, and during this period there is not exemption from incurred penalty for the event.
- **12.** After Awarding Tenders, winner tenderer will be assessment according to quality of good, delivery period, service after sale, and assessment weight will be considered in coming tenders' evaluation.
- **13.** In case that it is agreed to ship damaged materials to the supplier's factory, the supplier must ship the damaged materials from warehouses IDECO to the factory for maintenance and then return these repaired materials to IDECO's warehouses within 6 months.
- **14.** The required materials shall be inspected by calibrated equipment test by authorized party.
- **15.** Euro one certificate shall be submitted during clearance process, in case the country of origin of the required materials from Europe countries.
- **16.** The manufacturer shall print 128 c bar code in each item as below shape, and bar code character will be submitted to manufacturer at awarding date.



Departures from Technical Specifications

The Tenderer shall fill in the following schedule in case there are any technical deviations from the required or deviate from the standard.

Schedule (4)

No.	Required Particular	Offered Particular
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

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 purchase orders.

Schedule 5 (Manufacturing & Delivery)

Required	Data for item(1) Ring Main Unit, With <u>Two</u> Rated 630A Main Feeders and <u>Two</u> Rated 630 A Tee-Off Circuit Breakers	Data for item (2) Ring Main Unit, With <u>Two</u> Rated 630 A Main Feeders And <u>One</u> Rated 630 A Tee-Off Circuit Breaker.	Data for item (3) Feeder Switch, With <u>One</u> Rated 630 A Main Feeder And <u>One</u> Rated 630 A Tee- Off Circuit Breaker.
Manufacturer			
Manufacturing Place			
Inspection Place			
No. of purchase orders within 2 years			
Manufacturing Period and Delivery (week) to from purchase order date			
Minimum quantity per each purchase order.			
Maximum quantity per each purchase order			

Price Summary

- 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.
- > transportation obligations shall be indicated by **putting a tick** at the proper following choice:
- () CFR Aqaba Port () CPT- Amman Customs () CPT- IDECO Stores
- IDECO Company is not exempted from custom duties, sales taxes, import license fees and any other tariffs.
- 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.

No.	Quantity (PCS) Within 2 years	Material	Unit Price Currency	Total Price Currency
1.	10	Rated 12KV, Extensible, Motorized, Very Compact- Sized, Vacuum Type Interrupter, <u>Ring Main Unit</u> , With <u>Two</u> Rated 630A Main Feeders and <u>Two</u> Rated 630 A Tee-Off Circuit Breakers.		
1.1	10	DC Batteries 24V DC and Charger 240 VAC/24V DC For Item No.1.		
1.2	10	Single Phase Voltage Transformer 11/0.4 KV Line To Line For Item No. 1		
2	100	Rated 12KV, Extensible, Motorized, Very Compact- Sized, Vacuum Type Interrupter, <u>Ring Main Unit</u> , With <u>Two</u> Rated 630 A Main Feeders And <u>One</u> Rated 630 A Tee-Off Circuit Breaker.		
2.1	100	DC Batteries 24V DC And Charger 240 VAC/24V DC For Item No.2.		
2.2	100	Single Phase Voltage Transformer 11/0.4 KV Line To Line For Item No. 2		
3.	5	Rated 12KV, Extensible, Motorized, Very Compact- Sized, Vacuum Type Interrupter, <u>Feeder Switch</u> , With <u>One</u> Rated 630 A Main Feeder And <u>One</u> Rated 630 A Tee-Off Circuit Breaker.		
3.1	5	DC Batteries 24V DC And Charger 240 VAC/24V DC For Item No.3.		
3.2	5	Single Phase Voltage Transformer 11/0.4 KV Line to Line for Item No. 3		
Tota	l Contrac	et Price (<mark>in words</mark>)		

Schedule (6)

Inspection Details

- In case of foreign material origin, and inspection of material is required, the bidder shall fill up the following table.
- The inspection is required for each purchase order and for 2 IDECO Engineers at least, and the cost shall be borne by the contractor until otherwise agreed.

Schedule No.7

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

Main Offer details

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

Schedule No.8

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

<u>Tender Agreement Summary</u> <u>Tender No. (75/2022)</u>

Dear Sir;

- 2. We agree that this tender shall be held open for acceptance or rejection for the validity period of **120 days** 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.
- 5. We undertake if our tender is accepted and on receipt of your acceptance to commence and manufacture, works test, and complete for delivery <u>ex-works</u> the whole of the Works offered within (.....) weeks calculated from the date of Order Letter Awarding, and to deliver on 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 Ibid District Electricity and we will provide details of the materials to be shipped in good time for Ibid 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 / /	2022.	
Signaturein the	capacity of	
Duly authorized to sign Tender for and on behalf of		
Address	Occupation	