



GOVERNMENT OF PAKISTAN

Ministry of Science & Technology

Pakistan Council of Renewable Energy Technologies (PCRET)

Plot 25, Sector H-9, Islamabad

“Establishment of Pak-Korea Testing Laboratory for PV Modules & Allied Equipments”

BIDDING DOCUMENT

FOR

**SUPPLY, INSTALLATION & COMMISSIONING OF 1.2 MW
ELECTRICITY CONNECTION INFRASTRUCTURE**

(Certified that tender document contain 17 pages)

Pakistan Council of Renewable Energy Technologies (PCRET)

Plot 25, Sector H-9, Islamabad

Ph: 051-9265278, Cell +92-308-345-2002, Email: pkppcret@gmail.com

Pakistan Council of Renewable Energy Technologies (PCRET)
Plot 25, Sector H-9, Islamabad
**“Establishment of Pak-Korea Testing Laboratory for PV Modules & Allied
Equipments”**

BIDDING DOCUMENTS

FOR

**Supply, Installation & Commissioning of 1.2 MW electricity connection
infrastructure**

Part A

1. Scope of the project
2. Project Description
3. Bill of Quantities (BOQ)
4. Evaluation Criteria

Part B

1. Instruction to Bidders
2. Project Completion Time
3. Standard Forms

PROJECT DIRECTOR

Pak-Korea Project

Email pkppcret@gmail.com,

Ph: 051-9265278 Cell: +92-308-345-2002

PART A

1. Scope of the Project

Pakistan Council for Renewable Energy Technologies (PCRET) is establishing Pak-Korea PV Module Testing Laboratory on Plot No 55, Street 07, H-8/4, Islamabad. Currently, the building is running on 35 KW temporary electricity load. IESCO, Islamabad has granted the sanction load of 1.2 MW as per the demand of the laboratory. Therefore, services of well reputed firms/manufactures duly registered with IESCO, PEC, FBR and other relevant authorities are required to supply, install and commission the 1.2 MW load of electricity infrastructure as per IESCO/ NEPRA Specs.

2. Project Description

The project will energize the entire laboratory building along with sensitive laboratory equipment. IESCO, Islamabad has granted the sanction load of 1.2 MW for the laboratory. Entire electrical work has been completed already. The purpose of this job is to connect the main WAPDA electricity line to the Main Distribution box.

3. Bill of Quantity

All the listed items in the following table should comply with the relevant standards and specifications defined in the following table. All bidders must submit model/specification/quality of the BOQ items whichever is relevant in hard form along with single line diagram. The construction of rooms will be as per drawing of IESCO mentioned in sanction letter (See Annexure).

Sr.No	Description	Unit	Quantity	Model/Specification/Brand (To be filled by Bidder)
1.	<p>Preparation of Foundation for following pad mounted Distribution Transformer, confirming to requirements, technical specification, standards, drawings, etc. and approval of the engineer in charge with consultation of consultant according to IESCO/NTDC standards.</p> <p>(a) 630 KVA</p>	Each	04	
2.	<p>Supply, installation, testing & commissioning of following 11000/ 415V, 3 phase, 4 wire, Pad Mounted Type distribution transformers with pad type base, including connection with MV cable, indoor termination kits, control cables, neutral and body earthing with cable and earth pit and necessary installation accessories etc as per specifications, data sheets, complete in all respects, as per drawing and WAPDA/ DISCO specification and WAPDA/ DISCO approval. (The technical specification must not be less than PEL or equivalent)</p> <p>(a) 630 kVA Oil Filled Pad Mounted Transformer with standard incoming & outgoing. 1-1250 ATP MCCB (50KA), 2-630 ATP MCCB (35KA)</p>	Each	04	
3.	<p>Supply, installation, testing & commissioning of following indoor floor standing totally enclosed, dust protected and vermin proof, sheet metal clad cubical type, 3- phase 3- wire 50Hz in free standing design including all accessories with a set of 3-phase insulated copper bus bars of rated capacity 630 Amps, fine wiring with cleats and ferrules, earthing bar connecting studs, manual charging handle, cable sockets, designation labels, holding bolts, MV Switchgear with incoming and outgoing and other components as per SLD, including MV cable terminations, as per drawing and specifications and approvals, complete in all respect. MV, Switchgear (630A VCB 25,000 times operation) 11KV Protection Panel of Consumer Metering Room with all necessary protection features as per BOQ complete in all respect.</p> <p>(a) HT Transformer Protection Panel (Each 11KV switchgear is indoor use, metal-enclosed, self-standing type, dust and vermin proof with safety Shutters and included the followings: - Rated voltage :12 KV - One minute power frequency :36 KV withstand voltage (rms) - Impulse withstand voltage :95 KV (The technical specification must not be less than PEL or equivalent)</p>	Each	01	

4.	Supply, installation, testing and commissioning of Earthing system for pad mounted Distribution Transformer, HT Panel & Sync Panel including ground conductor (10 mm standard G.I Wire) clamps, M.S galvanized earth rod 10ft and earth rod clamp etc. to obtain the specified earth resistance up to 2.5 ohm. as per requirements, specification, and approval of the engineer in charge with consultation of consultant according to IESCO/NTDC standards.	Each	14.00	
5.	Preparation of Foundation for Synch Panel confirming to requirements, technical specification, standards, drawings, etc. and approval of the engineer in charge with consultation of consultant	Each	1.00	
6.	Supply, Installation, testing & commissioning of following Free Standing Floor Mounted, totally Enclosed, Cubical type, Low Voltage Transformer Synch Panel (LV Panel) with Incoming and Outgoing Circuit Breakers control wiring between 04No-630 KVA Pad Mounted Transformers and Synch panel with protection (UVT Shunt coil etc.) components as per BOQ made with 14 SWG sheet metal housing powder coated with approved color, (As per specifications), incoming and outgoing cables. Complete in all respects.	Each	01	
7.	Supply , Laying, testing and commissioning of 120 mm 3 Core HT XLPE armored copper cables to be laid directly in sand layer in already excavated trenches or through RCC pipes as per specification and standard provided n the given drawings and the approval of Engineer in charge with consultation of consultant	Meter	100.00	
8.	Supply, Installation, Earthing, Testing and commissioning of following HT Termination Kits for 120 mm 3 core HT Copper cable laid including Brass cable glands, bimetallic Lugs and miscellaneous material and Supply, installation as per requirements, standards, specifications and to the approval of Engineer in charge with consultation of consultant	Each	10.00	
9.	Supply , Laying, testing and commissioning of 4 Core 300 mm sq. LT/PVC/PVC copper cables as per IEC standards to be laid in sand layer in already excavated trenches the approval of Engineer in charge with consultation of consultant according to LESCO/NTDC standards.	Meter	250.0	
10.	Supply, Installation, Testing and commissioning of following LT Termination Kits for 4 Core 300 mm sq. cables laid including Brass cable glands, bimetallic Lugs and miscellaneous material and Supply, installation as per requirements, standards, specifications and to the approval of Engineer in charge with consultation of consultant	Each	32.00	
11.	Excavation of every type of trench in any type of soil within the project area for laying of HT & LT cables, as per dimensions given on the drawings with layer of sand and bricks with the approval of Engineer in charge with consultation of consultant	Cm	25.00	
12.	Construction Of Rooms For Installation Of following equipment as per IESCO standards a) 11 KV Metering Panel b) 11 KV Owner Protection Panel	Each	2.00 (01+01)	

4. Evaluation Criteria

I. Company Profile	[100]
a. Number of Similar assignments (Size & Complexity)	[30]
1. Projects of similar complexity	[30]
b. Value of similar assignments	[55]
1. Company Profile (Office in Major Cities, Life of Company	[35]
2. Audit Reports and should not be black listed in its history	[20]
c. Organizational Structure	[15]
1. ISO Certification, AGPR Vendor Number.	[5]
2. Company with call center and after sale services	[10]
Total Points	[A]
II. Project Team:	[100]
a. Lead Project Manager	[30]
b. Project Manager	[20]
c. Electrical Engineer	[20]
d. Civil Engineer	[15]
e. Inspector	[7]
f. Procurement/ Contract Management Specialist	[8]
Total Points	[B]
The number of points to be assigned to each of the above position or discipline shall be determined considering the following three sub-criteria and relevant score:	
1. Educational Qualification	[25]
2. Relevant Background	[70]
3. Time with Firm	[5]
<p style="text-align: center;">Technical Score*</p> <p>The minimum technical score required to pass is “70”</p>	<p>= A (60%) + B (40%)</p>

PART B

1) Instruction to bidders

a) General

- i) Sealed tenders are invited from Reputed Firms/Manufacturers/Companies Registered with IESCO, PEC having codes Electrical (EE 11 code) will be preferred. Moreover the project shall be executed under the supervision of technical committee nominated by PCRET
- ii) The bid (both technical and financial) should be submitted via PPRA EPADS (E-Pak Acquisition and Disposal System) and also in hard form to PCRET HQ, Plot 25, H-9, Islamabad.
- iii) Conditional, incomplete, non-compliant to bidding document and over writing in bids without initials will not be accepted.
- iv) Telephonic / faxed / telegraphic/mailed quotation will not be entertained.
- v) The Bidder should quote the price in Pakistani Rupees as per technical specifications provided in the bidding document. The specifications of item, different from demand of enquiry, will not be considered as responsive bid.
- vi) The Bidder is required to offer competitive price. The prices should be inclusive of General Sales Tax (GST).
- vii) Price quoted should be for the cumulative package basis i.e. entire items and quantities demanded of these bidding document. Partial offers shall be considered non-responsive and rejected accordingly. **Conditional/Optional offers will also be considered as non-responsive bidder.**
- viii) Any bid(s) received after the specified bid submission date and time will not be considered and will be deemed rejected.
- ix) A bid once opened in accordance with the prescribed procedure shall be subject to only those rules, regulations and policies that are in force at the Time of issuance of tender notice.
- x) The purchaser will disqualify a bidder if it finds at any time that the information submitted by bidder relating to bid submitted was false, misleading and/or misstated.
- xi) The payment of items is coupled with inspection / commissioning of system; therefore, supplier should make sure that bid is complete in all respects including consumables and incidentals etc.

2) Single Stage — two envelopes bidding procedure

The bidding shall be held as per PPRA Rules envelopes bidding 2004 under the Single stage — two envelopes procedure bidding procedure:-

- The bid shall comprise a single big envelope containing two separate envelopes, one with the technical proposal & other carrying financial proposal
- The envelopes shall be marked as "FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL" in bold and legible letters to avoid confusion.
- Initially, the envelope marked "TECHNICAL PROPOSAL" shall be opened for technical evaluation. Financial proposals of the technically responsive bidders shall be opened later on.

- The Purchaser, shall evaluate the technical proposal without reference to the price and reject any proposal which does not conform to the specified requirement/specification.
- The financial proposal of bids found technically non-responsive shall be returned un-opened to the respective Bidders
- Before delivery pre-shipment inspection will be undertaken by the Purchasing Agency,

3) Bid Security

- Any Bid (Financial) found without/deficient of earnest money i.e. Rs 1400,000/- (Rupees One Million Four Hundred Thousand Only) in shape of pay order/bank draft in favor of DDO Pak-Korea Project will be considered as non-responsive and will lead to rejection of bid.
- The earnest money deposited along with bid will be refunded to all unsuccessful bidders after the approval from Competent Authority. The successful bidder however will be returned earnest money on timely completion of the awarded work

4) Performance Guarantee as Performance Bond

- Performance guarantee amount of 10% of price quoted will be submitted by successful bidder in shape of a bank guarantee issued by a scheduled Bank in favor of the DDO Pak-Korea Project. This security should be submitted within a week before the award of work and have a validity of four months. The same will be released after its expiry subject to completion of the work whichever is later.

5) Bid Validity

- The bid shall remain valid for a period of 90 days from the specified bid submission and opening date

6) Scope of Supply

- The successful bidder will have to supply / install & commission within ninety (90) days after issue date of supply order.

7) Signing of Bid

- The authorized person signing the bid shall initial all the pages of the bid, where entries are made.

8) Sealing and Marking Of Bid

- The bid shall be submitted in a sealed envelope marked as under:
Project Director Pak-Korea Project, PCRET Plot 25, H-9, Islamabad
The envelope shall also bear the word "CONFIDENTIAL" and following:
- Tender No
For Procurement of
Don't open before
Technical/Financial Bid
(Indicate one on each envelop)

If the envelope is not marked, as instructed above, the Purchaser will assume no responsibility for the premature opening of bid(s).

- (iii) The bidder will have to submit one set of the bid in original. The bidder shall seal the original as "**Original**". The envelop shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared "Late"

(iv) Deadline for Submission of Bids

All bids must reach and be received by the Purchaser in sealed envelope on or before the prescribed deadline i.e. 19-03-2024 , Tuesday. The bids shall be opened by the Committee Constituted for the purpose on the same day in the presence of bidders at PCRET, HQ. However, the date and time of opening of financial bids of the successful bidders will be determined and communicated later.

(v) Late Bids

Any bids received by the purchaser after the prescribed deadline (date and time) for submission of bids or incomplete bid shall not be considered and will be returned unopened.

9) Purchaser`s Right to accept or Reject any or all Bids

- i) PCRET reserves the right to increase or decrease the quantity accept or reject any bid and to stop the bidding process and reject all bids, at any time prior to award of supply order without incurring any liability toward the bidders. However, the increase in the quantity shall not be beyond 15% of original scope referred in the bidding documents.

10) Convincing

- i) Unsolicited advice/clarification and any personal approaches at any stage of evaluations/purchase process are strictly prohibited and will lead to disqualification.

11) Delivery

- i) The delivery/installation, commissioning of equipment/items shall be made at Pak-Korea Laboratory Building , Plot 55, Street 07, H-8/4, Islamabad within Ninety (90) days of the date of supply order

12) Inspection

- i) Upon delivery at the specified premises, the equipment/items shall be inspected by authorized PCRET officer(s) in the presence of supplier or his/her representative at the time of delivery. Equipment/items not in conformity with the supply order shall be rejected. The rejected equipment(s) shall be replaced by the supplier within 15 days at supplier's expenses. A formal delivery challan (duly signed by the Course Coordinator and Focal Person) shall be prepared within 03 working days of receipt against items found as per specification and accepted thereon. The same should be forwarded to PCRET.

13) Payment

Payment shall be made through AGPR (Accountant General Pakistan Revenues, Islamabad), as per policy of incumbent government which shall be issued in two stages/installments as mentioned below.

Sr.No	Milestone	Description	% Contract Price
1.	First Installment	Supply of Transformers/Sync panel/Protection Panel/Cables etc.	50% of the contract value
2.	Second Installment	Installation and commissioning of electricity connection	50% of the contract value

Note: All taxes will be deducted from bills as per applicable taxation rules.

14) Prices

- i) Prices invoiced by the supplier for goods delivered and services performed under the contract will be strictly in accordance with the prices quoted by the supplier in its bid and also referred in the contract.

15) Arbitration

- i) In case of any dispute concerning the interpretation and/or application of this tender, shall be settled through arbitration. Joint Secretary MoST Islamabad or his nominee shall act as sole arbitrator. The decisions taken and/or award made by the sole arbitrator shall be final, binding on the parties and not challengeable on any court of law.

16) Force Majeure

- i) The supplier shall not be liable for penalty for delay in delivery of ordered goods, if, and to the extent delay in delivery or other failure to perform his obligation under the Purchase Order, of being the result of occurrence of Force Majeure i.e. causes such as natural calamities, war, civil disturbance, military action, fire as well as other circumstance proved to the satisfaction of the Purchaser to be beyond the reasonable control of the supplier, which may impede the fulfillment of the obligations under the Purchase Order.
- ii) The supplier shall notify the Purchaser promptly of the occurrence of Force Majeure and submit his case in writing within 03 days of such occurrence.
- iii) If any of the party is prevented to fulfill its assumed obligations by Force Majeure of constant duration of at least one month, the party shall meet for negotiation. If no satisfactory agreement is reached within a period of two months from the commencement of the Force Majeure conditions, either party shall have the right to cancel the Purchase Order with immediate effect.

17) Award Criteria

- i) Subject to qualification requirement and criteria (mentioned in standard forms, evaluation criteria) the Purchaser will award the contract to technically qualified bidders on low cost basis.

18) Notification of Award

- i) Prior to the expiration of the period of bid validity, the Purchaser will notify the successful Bidder in writing by registered letter or by fax, to be confirmed in writing by registered letter, that its bid has been accepted.

19) Signing of Contract

- i) The bidder will submit the signed Contract Form on Legal Stamp Paper provided in the Bidding documents before issuance of work order.

20) Corrupt or Fraudulent Practices

- i) The Purchaser observes the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Purchaser:
 - a. Defines, for the purposes of this provision, the terms set forth below as follows

“corrupt and fraudulent practices” includes the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official or the supplier or contract in the procurement process or in contract execution to the detriment of the procuring agencies; or misrepresentation of facts in order to influence a procurement process or the execution of a contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non- competitive levels and to deprive the procuring agencies of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official the course of the exercise of his duty.
 - (b) Will reject proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question
 - (c) Will declare the firm ineligible, either indefinitely or for stated period of time, to be awarded PCRET financed contract if it at any time determines that the firm has engaged in corrupt and fraudulent practices in competing for, or in executing PCRET financed contract.

STANDARD BID FORM

Firm Name	
National Tax Number	
Sales Tax Registration Number	
Date of Registration (Company)	
Owner(s) Name(s)	
Business Address	
Contact Details (Phone, Cell, Fax, Email etc)	

Authorized Signature/Stamp

Attachments:

- ✓ Copy of CNIC
- ✓ Copy of NTN
- ✓ Copy of STRN

Tender Submission Date	
Earnest Money	
Bank Draft/Pay order	
Issuing Bank	

Note: Contractors/ Vendors Must fill in all details as required in the form. Print in blue ink, use capital letters

Contract Form (on Legal Paper)

- 1) This agreement is made on _____(date) between the Project Director Pak-Korea Project with its office located in H-9, Plot 25, Islamabad herein after called the “Buyer” and M/S _____ with its registered office at _____ herein after called the “Supplier.
- 2) The Buyer having invited Tenders and decided to accept the rates item basis:
- 3) The Supplier undertakes to complete the supply/installation according to the provided to the supplier within 90 days of issuance of the supplier order. In case of delay the Buyer (PCRET) reserves the right to impose a penalty or liquidated damages @ 0.3% per day of the quoted amount of non-supplied items. This penalty may increase up to 5% of the contract value in case of continued default by the supplier.
- 4) If the supply / installation is not made according to the agreed specification, the reserves the right to cancel the supply order and get the work done from second bidder at the cost and risk of the Supplier If the Buyer would have to pay any amount in excess of the agreed amount the difference shall be recovered from the Supplier.
- 5) Supplier shall supply the items at its own cost and risk at the location (as per supply order), strictly according to the specifications and in the original best condition.
- 6) The Bank Guarantee will be forfeited if the Supplier fails to honor and/or maintain its quoted rates or if it does not abide by other conditions of the bidding and this supply
- 7) The Buyer reserves the right to increase or decrease the quantity of the Tender; in that case payment will be made as per actual supply. However, this agreed quantity shall not exceed 15% of the original contract value.
- 8) The amount deposited by the Supplier as Earnest Money will be release after completion of work and performance bond will be released at its expiry (i.e. 04 months) subject to completion of work.
- 9) If the supplies / installation work is not according to the satisfaction of the Buyer, Buyer reserves the right to reject it altogether or may impose a penalty not exceeding of the amount of contract and if so required, also confiscated and call the bank guarantee.
- 10) The supplier shall not assign the contract or sub-let any of the work of supplier under this agreement without the prior consent of the Buyer.
- 11) Payment shall be made through AGPR (Accountant General Pakistan Revenues, Islamabad), as per policy of incumbent government. 50% payment will be made on the supply of transformers/sync panel/protection panel/cables and 50% payment will be made after installation and commissioning of the electricity connection. Preparation of wire test report at the end of the task will be responsibility of the contractor.
- 12) Time shall be deemed of essence, provided that the time for completing any of the work has been or is likely to be delayed by reason of force majeure or other cause beyond the control of the supplier, However, the extension period shall be equal to the length of delay so caused, provided a prompt notice is served to the buyer about the occurrence causing or likely to cause such delay.
- 13) All disputes or differences that may arise between the buyer and seller arising out of or in connection with this Agreement, shall be settled amicably through mutual negotiations in good faith. All such disputes that are not settled amicably within 30 days front the date of notification of such dispute shall be referred to arbitrator i.e. JEA MoST, Islamabad or his nominee (Arbitrator), whose decision shall be final and binding on both the parties.

14) The Supplier shall be under obligation to remove any discrepancy at its own expense, as may be noticed at a later stage notwithstanding the fact that the supply was earlier accepted and payment released in accordance with this agreement.

- i) Buyer may terminate this agreement at any stage time, without incurring any liability or cost, if the supply is not satisfactory or is not according to the specification referred in bid and approved for supply.
- ii) This agreement has been prepared in duplicate.
- iii) In witness whereof Project Director, Buyer, Islamabad and M/S_____affixed their authorized signatures on this agreement on the day and year mentioned here under.

On the Behalf of Supplier

On the Behalf of Buyer

Name

CNIC

Signature

Witness I

Witness II

Name

CNIC

Signature

No. 1188-92/CEO/IESCO/CE(P&E)/CFC-1506Date: 23/06/2023PD (CO) IESCO
Islamabad.

SUBJECT: SANCTION FOR PROVISION OF ELECTRICITY CONNECTION TO PAK KOREAN TESTING LABORATORY FOR PV MODULES AND ALLIED EQUIPMENTS IN RESPECT OF PAKISTAN COUNCIL OF RENEWABLE TECHNOLOGY MINISTRY OF SCIENCE AND TECHNOLOGY AT PLOT NO.55, STREET N.7, SECTOR H-8/4 ISLAMABAD.

The Chief Executive Officer IESCO, Islamabad has been pleased to accord the approval for **1201 KW** load in respect of subject premises as one point supply through HT metering under tariff A-3(a) with the terms, conditions and work details as given below: -

WORK DETAIL:

Name of Work	Capital Cost (Rs.)	Vetting fee (Rs.)	Security amount (Rs.)	Ultimate Load	Regd No.
Admin approval & technical sanction of BOQ/Cost estimate for 1201 KW load IRO subject premises at Plot No.55 Street No.7 Sector H-8/4 Islamabad.	6,638,283/-	99,574/-	2,173,810/-	1201 KW	CE(P&E)SO 2022-23

TERMS AND CONDITIONS:

- The approval for 1201 KW ultimate load under Tariff A-3(a) in respect of subject work from 11 KV 4-9 feeder emanating from 132 KV Zero point Grid station.
- The Admin. Approval and Technical Sanction of the BOQ/cost estimate amounting to **Rs.6,638,283/-**, for external electrification work by CEO IESCO Islamabad with recovery of design vetting fee **Rs.99,574/- @ 1.5% of the total estimated cost & Security amount Rs.2,173,810/- @ 1.5 % on the total estimated cost against 1201 KW load by the office of CE (P&E) IESCO Ltd against 1201 KW under Tariff A-3(a).**
- The demand notice shall be issued by CE (P&E) IESCO for the following:-
 - Capital cost amounting to **Rs.6,638,283/-**.
 - Vetting fee **Rs.99,574/- @ 1.5 % on total estimated cost.**
 - Security amount **Rs.2,173,810/- @ 1.5% against 1201 KW load.**
- The work shall be executed by PD (CO) IESCO Islamabad after receipt of Capital cost, Vetting fee & Security amount from the applicant. He is requested to arrange the drawl of material within due course of time after receipt of payment to avoid revision of the estimate due to escalation in the cost of material.
- "Any cost if required additionally due to escalation in cost of material during construction work or any other unforeseen reason will have to be deposited by the applicant". The actual material and its installation charges for the network to be installed should be charged at the prevailing store issue rates at the time of execution of the job. Difference/variation if occurred (less/excess) shall be adjusted accordingly after completion of the entire work.
- The metering shall be carried out at applicant's premises through 11 KV industrial metering panel to be installed in the separate room. For the purpose the applicant will provide / construct and maintain a locked, weather and fire proof room at his own cost for IESCO having access door from outside only, adjacent / touching boundary wall at agreed location. The size of this room shall be 5x3 meter as per drawing No.CEOD/327 and applicant shall have no access to this room.

SANCTION FOR PROVISION OF ELECTRICITY CONNECTION TO PAK KOREAN TESTING LABORATORY FOR PV MODULES AND ALLIED EQUIPMENTS IN RESPECT OF PAKISTAN COUNCIL OF RENEWABLE TECHNOLOGY MINISTRY OF SCIENCE AND TECHNOLOGY AT PLOT NO.55, STREET NO.7, SECTOR H-8/4 ISLAMABAD.

- 7) The appropriate capacity of distribution transformer upto sanctioned load arranged and installed by the applicant at his own and the same shall be purchased from approved manufacturers of IESCO/PPMC. 11 KV / low voltage distribution Transformer to be installed at the applicant premises shall not be more than the sanctioned load.
- 8) The protection panel having the appropriate capacity of GTs as per extended load shall be provided and installed by the applicant at his own and the same shall be purchased from approved manufacturers of IESCO/PPMC.
- 9) The expenditure should be restricted to the amount deposited by the applicant and work shall be executed as per IESCO / PPMC SDI and shall be completed within stipulated time period prescribed in the NEPRA Consumer Service Manual (CSM) 2021.
- 10) The Right of way for electrical network to be constructed from concerned administrative Authority and NOC if required from owners of existing feeders will be the sole responsibilities of applicant.
- 11) The applicant shall install power factor correction equipment / 11 KV capacitor at his own cost, so that power factor of applicant's load shall not fall below 90% and percentage voltage drop in the system could be improved.
- 12) Balancing arrangements of 3/Phase should be provided by the applicant to ensure that the difference of current / voltage between any two phases is not more than 5% as per bridged conditions of supply.
- 13) Automatic arrangement for balancing and power factor correction switching will have to be provided by the applicant for above balancing / correction of power factor. Manual operation of capacitor switching shall not be allowed.
- 14) Grading/protection time coordination in the relays of the panel of the applicant shall be provided so that applicant's panel is disconnected before IESCO 11 KV breaker at the Grid Station in the event of any fault / overloading.
- 15) The load shall be authorized after receipt of contractor wiring test report and NOC from electrical Inspector Govt. of Punjab against the approved extended load upto 1201 KW from the applicant duly verified by Chief Engineer IESCO Islamabad and work completion report by executing agency of IESCO.
- 16) All the requirements/equipment's be got checked by the Technical Committee IESCO Islamabad as mentioned above, before energization of extended load. The committee should confirm that protection / metering C.Ts are not fixed for over load rating beyond 120% of the sanctioned load. The relays / panel should be sealed to ensure this aspect. It should also confirm that the provision of all the relevant clauses as mentioned above have been satisfactorily carried out by the applicant for extension of load.
- 17) The standard ICU meter having features to record KWH/MID/KVARH as approved by PPMC for 11 KV applicant for metering purpose be installed / ensured. The meter should be programmed for TOD tariff.
- 18) Meter testing job & sealing should be carried out by Technical Committee as and when constituted for the purpose.
- 19) The Technical committee shall be constituted and SCO issued for energization of load by (P&E) IESCO after receipt of contractor wiring test report duly verified by the CE (P&E) IESCO lbd from the applicant and completion of work / job report from executing agency of IESCO and NOC from Electrical Inspector Govt. of Punjab.
- 20) All requirements dictated by NEPRA/PPMC/IESCO Commercial Procedure, Standard design instructions, electricity rules, tariff applicable should be strictly met with according to the latest instructions.
- 21) All other Departmental formalities should be observed before energization of extended load.

XEN (E) Operation Division No.2 IESCO Islamabad, shall intimate the relevant clauses to the applicant and also monitor / pursue the implementation of all the above noted terms and conditions in true letter and spirit.

DA/Estimate


Chief Engineer (P&E)
IESCO Islamabad.

Copy to:-

- 1 SE (E) IESCO Islamabad for information.
 - 2 XEN (E) IESCO, Operation Division No.2 Islamabad for information and necessary action.
 - 3 Mr's The Superior Engineering Consultant House No.7, Street No.7, Block-A Soan Gardens lbd for information.
 - 4 Mr Afzal Hussain Project Director Establishment of Pak Korea Testing Laboratory for PV Modules and Allied Equipment Plot No.55 Street No.55 Sector H-8/4 Islamabad.
- Master File

Page 2 of 2