



ELECTRONICS CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

COMPONENTS DIVISION – PURCHASE

EVM –VVPAT-POWER PACKS PROJECT

REQUEST FOR QUOTATION

(TWO PART BID)

- (i) TECHNO-COMMERCIAL CRITERIA
- (ii) PRICE BID

**FOR THE SUPPLY OF “DUAL PULSE SPOT WELDING MACHINES
AND WELD HEADS”**

15 th October 2016

REFERENCE No. ECIL/CD/PUR/23-5811/Q

RCD BUILDING
ECIL POST
HYDERABAD – 500 062
E mail: cdpurchase@ecil.co.in

Tel: 0091 40 2718 2721
0091 40 2718 2248
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PART A:**SCOPE:****A 1.1 Purpose:**

Electronics Corporation of India Limited (ECIL) Hyderabad is manufacturing Electronic Voting Machines and Voter Verified Paper Audit Trail (VVPAT). ECIL needs Dual Pulse Welding Machines for manufacturing VVPAT Power Packs.

A 1.2 Invitation:

Electronics Corporation of India Limited, Hyderabad, inviting proposals from the Suppliers for the supply of the following to meet the requirements set out in this Request for Quotation (RFQ).

- (i) Dual Pulse Resistance Welding Power Supply: Qty. 10 Nos.
- (ii) Precision, parallel gap Welding head with foot pedal and accessory cable set: Qty. 10 Nos.
- (iii) Welding Reflow tips: 1000 Nos.

Proposal for the above Item should be submitted as per the details given below

A.1.3 Technical Specifications:

Application: This unit is used to spot weld the tabs of AA size Batteries to assembly a Power Pack Unit. The spot welding operation of batteries is very sensitive and the duration of pulse and its energy should be correctly maintained and ensure that no damage occur to the batteries during the operation.

| Technical Specifications | | |
|--------------------------|--|-----------------------------|
| 1 | Dual Pulse Resistance Welding Power Supply: | |
| Sl. No. | Item specifications | Description |
| (i) | Input voltage | 180 to 260 Volts VAC, 60 Hz |
| (ii) | Input VA, max | 1300 VA |
| (iii) | Charge circuit type | Switched mode |
| (iv) | Weld capacitor charge voltage | 430 V max |
| (v) | Output Energy (max per pulse) | 125 Watts/sec |
| (vi) | Weld pulses per schedule | 2 |
| (vii) | Repetition rate (Pulses per minute) | 1 Ws 300/min |
| | | 5 Ws 190/min |
| | | 10Ws 140/min |

| | | |
|--------|---|---|
| | | 20 Ws 100/min |
| | | 25 Ws 90/min |
| | | 50 Ws 66/min |
| | | 75 Ws 55/min |
| | | 100 Ws 47/min |
| | | 125 Ws 45/min |
| | | |
| (viii) | Hit rate | 1 Ws 345/min |
| | (Pulses per minute) | 5 Ws 265/min |
| | | 10Ws 225/min |
| | | 20 Ws 185/min |
| | | 25 Ws 172/min |
| | | 50 Ws 137/min |
| | | 75 Ws 105/min |
| | | 100 Ws 75/min |
| | | 125 Ws 60/min |
| | | |
| (ix) | Rise time @ max energy into a 1 | Very short (VS) : 0.65 ms No upslope |
| | milli Ohm load with very | Short (S) : 0.65 ms No upslope |
| | Low inductance | Medium (M) : 0.85 ms No upslope |
| | | Long (L) : 1.2 ms No upslope |
| | | |
| | | Short (S) : 0.9 ms With upslope |
| | | Medium (M) : 1.40 ms With upslope |
| | | Long (L) : 2.80 ms With upslope |
| (x) | Typical pulse duration times at | Very short (VS) : 2.0 ms No upslope |
| | max energy into a 1 milliohm | Short (S) : 2.3 ms No upslope |
| | load with very low inductance. | Medium (M) : 2.5 ms No upslope |
| (xi) | Duration measured at 10% of peak currents | Long (L) : 3.9 ms No upslope |
| | | |
| | | Short (S) : 2.4 ms With upslope |
| | | Medium (M) : 2.8 ms With upslope |
| | | Long (L) : 4.7 ms With upslope |
| (xii) | WATT Second adjustment range | 1 to 125 watt Second in 0.1 Ws |
| (xiii) | Polarity selection | Positive, negative or alternating |
| (xiv) | Squeeze time | 0 to 2999 m sec |
| (xv) | Hold time | 0 to 2999 m sec |
| (xvi) | Weld counter | 0 to 999999 |
| (xvii) | Control system | Processor controlled, to provide highly stable output, independent of input voltage fluctuations and consistent energy delivery from weld to weld |

| | | |
|----------|--|--|
| 2 | Precision, parallel gap Welding head with foot pedal and accessory cable set: | |
| | | |
| (i) | Actuation | Foot (pedal) activated |
| (ii) | Weld force range - low | 1 to 5 kg |
| (iii) | Weld force range - high | 10 kg |
| (iv) | Electrode diameter | 3.0 mm/0.125 inch to mm/0.25 inch |
| (v) | Weld ON/OFF switch | Yes |
| (vi) | Alarms | Low weld current indicator |
| (vii) | Timing control | Automatic |
| | | |
| 3 | Welding Reflow tips: | |
| (i) | Size | 6mm / 0.25 inch dia. (Strait electrodes) |
| (ii) | Material | GLIDCOP AI-20 - dispersion strengthened copper - .4% |
| (iii) | Strength | 80 B rockwell hardness |
| (iv) | Conductivity | 89% |
| (v) | Length | 2 inches |

Brief requirements:

- a. The suppliers must quote for supply of the machines as per the above specifications
- b. The supplier should provide detailed technical catalogues along with the Technical Bid
- c. All the items must be from the same manufacturer in original and these must be certified by the OEM
- d. Two years onsite warranty should be included.
- e. Two sets of O & M manuals should be provided along with equipment in hard copy and soft copy. All the literature and documentation should be in English
- f. Factory Acceptance Test (FAT) certificates to be provided
- g. Valid calibration certificates from reputed laboratory along with test results should be provided at the time of supply.
- h. AMC charges should be specified for a period of 3 years from the date of expiry of two year warranty period

A.1.4 Time Schedule of various Bid related events:

| EVENT | LAST DATE |
|---|---|
| 1. Bid Issue date | 15.10.2016 |
| 2. Receipt of request for clarifications from Bidders | 31.10.2016 |
| 3. Reply by ECIL on queries by bidders | 02.11.2016 |
| 3. Due date for submission of Quotation / Bids | 09.11.2016 at 14.00 Hrs. |
| 4. Opening the Techno commercial Criteria | 09.11.2016 at 14.30 Hrs. |
| 5. Due date for opening of Price bids | Will be intimated |
| 6. Contact person and address for submission of Quotations /Bids. | Dy. General Manager, Purchase Components Division, RCD Building |

| | |
|---------------|--|
| | M/s. Electronics Corporation of India Ltd., ECIL Post, Hyderabad - 500 062. Telangana, India. Phone : +91 40 2718 2248/2718 2721 FAX: + 91 040 27120288/27120495 E-Mail: cdpurchase@ecil.co.in |
| Reference No. | ECIL/CD/PUR/23-5811/Q |

Part B:

B. 1. Documents Constituting the Bid:

1.1 The bid prepared by the Bidder shall comprise the following components:

- I. **Techno-Commercial Bid:** - Technical Bid should contain commercial terms and technical details like specifications makes, literature etc, but **without PRICE**.
- II. **Price Bid:** - Price Bid should cover price and priced commercial terms like basis of price, delivery terms, mode of dispatch, Taxes applicable and payment terms etc. Price shall be indicated in figures and words. The Price Bid Format is given under “PART-G”
- III. All information called for like, Techno Commercial Bid and Price Bid should be submitted in 2 separate sealed envelopes. Two (2) sealed envelopes should be kept in an outer cover and sealed. The outer cover and the inner envelopes/covers should be super scribed with details like addressee, Tender reference, last date/time for submission and bidder’s address.

Part C:

Instructions to Bidders:

C. Period of validity of Bids:

C.1.1 Bids shall remain valid for a period of 90 days from the date of opening of bids.

C.1.2 The bidder must submit an EMD (Earnest Money Deposit) of Rs. 2 lakhs (Rupees Two lakhs only) by way of a demand draft from any Nationalized / Scheduled bank drawn in favour of M/s ECIL, payable at Hyderabad. EMD is Non-interest bearing.

Requisite EMD Draft/Bankers Cheque is to be kept in Techno-Commercial Bid only.

C.1.3 Deadline for submission of Bids:

The bids must be received by ECIL at the address specified, not later than the scheduled time on the due date of receipt of tenders as specified under “Part-A 1.4.” In the event of the specified

date for the submission of Bids being declared a Holiday for ECIL, the bids will be received up to the specified time on the next working day.

C.1.4 Late Bids:

Any bid received after the deadline for submission of bids prescribed by ECIL will be rejected. It will be the bidder responsibility to ensure that the bids are submitted at the correct delivery address and before the bid closing time & date.

C.1.5 Bid opening and evaluation of Bids:

All the technical bids received before due date will be opened at CD Purchase, ECIL. Technical evaluation will be carried out by the Technical Committee of ECIL to assess and finalize the technically acceptable bidders. The price bids of only the technically acceptable bidders will be opened. Bidders shall certify in the quotation that the offered Machines will meet the specifications mentioned above.

C.2. Clarification of Bids:

During evaluation of bids, the ECIL may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and response shall be in writing.

Part-D:

Techno Commercial Bid:

- a) Provide Comprehensive details of registration / Incorporation of the Bidder Company / firm/Organization
- b) Complete address of the registered office of the bidder should be provided
- c) Following Documents for the last three consecutive years are to be submitted :-
 - i) Income Tax Returns
 - ii) Signed and certified copy of audited balance sheet
(need not submit complete annual report)
 - iii) Signed and certified copy of audited Profit and Loss Account
(need not submit complete annual report)
- d) Documentary evidences/Brochures etc for support of commercial activities and competence of the bidder
- e) Signed undertaking accepting of all Terms and Conditions given in the RFQ
- f) Copy of ISO Certificates /CMMI certificates , if any are to be submitted
- g) ECIL shall have the right to accept / reject any /all of the bids without assigning any reason, as its own discretion.
- h) ECIL shall have the right to cancel / re-float the RFQ at its discretion

- i) Purchase Order will be issued on L1 rate quoted Supplier. L1 rate will be offered to L2 supplier if L1 do not accept, L3, L4 etc will be contacted.
- j) Warranty period should be 3 years
- k) **Suppliers must produce their Customers list to whom these type of Machines supplied in India**
- 1) **Security Deposit:** Successful Bidder Shall deposit an amount equal to 10% of the order value as security deposit in form of a Demand Draft / Bank Guarantee from a Scheduled Bank, within 1 week from the receipt of Order from ECIL.

PART-E:

Terms & Conditions:

- 1) The supply will be strictly evaluated and tested for compliance to the specification. In case of non-compliance the Machines will be rejected.
- 2) Test report certifying the Technical Specifications of Machines as given above.
- 3) **Delivery Period:** ECIL Expects delivery of Machines within 4 weeks of the Order. Bidder must confirm Delivery Period of 4 weeks from the date of Order in their Technical Bid
- 4) **Delivery Point:** Electronics Corporation of India Limited, Opp. CRS, Renigunta Road, Tirupati-517506, Andhra Pradesh, INDIA.
- 5) **Payment Terms:** Payment for supplies of Machines will be made within 60 days from the date of receipt and acceptance.
- 6) **Liquidate Damage Clause:** Once the Order is placed on successful Bidder should be in a position to supply as per the delivery schedule given by ECIL. In the event of any delay in the agreed delivery schedule, Liquidated Damages will be recovered @ 0.5% per week of delay or part there of subject to a maximum of 10% of the value of the order.
- 7) **Risk Purchase Clause:** It is explicitly spelt that in the event of failure of the supplies to comply with the Purchase Order terms, ECIL has the right to cancel the Order and procure the materials from alternative sources. That in the event of such alternative procurement, the defaulting supplier shall be liable to bear any extra cost which may be incurred by ECIL. Such extra cost could be on account of either a higher unit price or any higher rate of foreign exchange conversion rate by such delayed alternative procurement. The recovery of such extra cost would be affected from the available credit in the account of the defaulting supplies or by invocation of Bank Guarantee issued in favor of ECIL.
- 8) **Termination Clause:**
 - a. ECIL may, without prejudice to any other remedy, by written notice of termination sent to the supplier, terminate the contract, in whole or part, without any liability to ECIL whatsoever, if:- within any extension thereof granted by

ECIL pursuant to conditions of contract or if the supplier fails to supply under the contract.

- b. The supplier becomes bankrupt or otherwise insolvent.
- c. In any of the above event, termination will be without compensation to the supplier, and that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue hereafter to ECIL. The supplier shall be responsible for the difference in prices of new contract for supplies purchased elsewhere.

9) Law of Land: The applicable law for this RFQ is Indian Law.

10) RESOLUTION OF DISPUTES AND ARBITRATION:

- (i) All disputes or difference of any kind, whatsoever, arising out of or in connection with this contract or in discharge of any obligation arising out of this contract the parties to this contract shall Endeavour to settle such disputes and or difference amicably. If both the parties fail to reach such amicable settlement either party may within 30days of such failure, give a written notice to the either party clearly setting out there in the specific disputes and or differences which require to be arbitrated upon. Such disputes and / or difference shall be referred to a sole arbitrator appointed by C&MD, ECIL. The Arbitrator will be the officer from ECIL.

Arbitration proceedings shall be held at Hyderabad, India and the language of the Arbitration proceedings and that of all documents and communications between the parties shall be English.

The Arbitration shall be covered by the provision of the arbitration and Conciliation Act, 1996 or any statutory modification or reenactment thereof and rules framed there under from time to time.

- (ii) **Jurisdiction:** The court at Kapra Circle, GHMC, Hyderabad, and Telangana State shall only have competent jurisdiction.

PART-F:

CHECK LIST FOR RFQ FOR SUPPLY OF DUAL PULSE WELDING MACHINES:

| S.No. | Particulars | Description |
|-------|--------------------------------------|-------------|
| 1. | Name and Address of the Organisation | |
| 2. | Management Structure | |
| 3. | Contact Person with designation | |
| 4. | Contact Telephone No./Fax | |

| | | |
|-----|--|--|
| 5. | Email | |
| 6. | Current Operational Area of Work | |
| 7. | Turnover for last three years | |
| 8. | Approval/Registration with any Govt.-Agency | |
| 9. | Expertise in manufacturing/Marketing of Products | |
| 10. | Regular manpower available on Roll | |
| 11. | Any other Credentials | |
| 12. | Acceptance of Terms & Conditions of RFQ | |
| 13. | No of PSU/Govt. Customers during last 3 years | |
| 14. | No of offices / Branch Office in India | |
| 15. | Permanent Account No (PAN) | |
| 16. | Sales Tax Registration No (TIN) | |
| 17. | Service Tax Registration No. | |
| 18. | Details of Registrations with DGFT | |
| 19. | Warranty Period on Products offered | |
| 20. | Details of RFQ – EMD, such as DD No./ Name of the Bank/ Amount | |

PART-G:

PRICE BID FORMAT:

Prices are to be quoted invariably on CIF basis:

| S. No. | Name of the Product/Model/Part No. | Quantity | Rate(Rs.) | Applicable Tax |
|--------|--|-----------|-----------|----------------|
| 1 | Dual Pulse Resistance Welding Power Supply | 10 Nos. | | |
| 2 | Precision, parallel gap Welding head with foot pedal and accessory cable set | 10 Sets | | |
| 3 | Welding Reflow tips | 1000 Nos. | | |

Other Terms and Conditions of price quoted above :

- i. Delivery period :
- ii. Payment Terms :
- iii.
- iv.
