

ELECTRONICS CORPORATION OF INDIA LIMITED
CONTROL AND AUTOMATION DIVISION
Materials Management Division

ECIL/CAD/MMS/2013-14

Dt.30/10/2013

Sub: Tender through "tenders.gov.in" and "ECIL Website" – Reg.
Ref: Indent No.19-61-612121, Dt.26/10/2013.

...
This request may please be put under the heading "TENDERS".

Enclosed herewith enquiry calling quotations for "**Supply, Installation and Commissioning of RPT System**" through "tenders.gov.in" and "ECIL Website".


Matter to be written in tenders column:

Manufacturers/ Authorized Distributors of "**Supply, Installation and Commissioning of RPT System**" is invited to quote.

Due date : 21/11/2013

Data that is to be put on website consists of 7 pages is enclosed here with.

You are requested to publish on website "tenders.gov.in" & "ECIL Website".

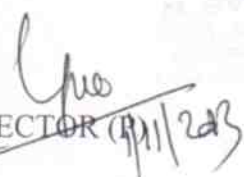

(Y.HEMALATHA)
SM/PUR


THROUGH: (G.MOHAN RAO)
I/C,MMS


HEAD,RPD 17-13


DIRECTOR (9/11/2013)

To
Shri M.P.Ranga Rao/ Shri A.C.Rao, SDGM
Administrator EC Net
ECIL.


वी.एस.बी.बाबु
V.S.B. BABU
निदेशक (पर्सनल)
Director (Personnel)

Head RPD's Office, CSG
Inward No. 1094
Date 31-10-2013

Phone : +91-40-2718 6619, 2718 2395 & 2718 2242, 2712 1013
 Fax : +91 -40-2712 1013 / 2712 3762
 E-mail : yhemalatha@ecil.co.in, rrc@ecil.co.in, cadmms@ecil.co.in



Electronics Corporation of India Limited
 A Government of India Enterprise
CONTROL & AUTOMATION DIVISION-PURCHASE
 ECIL Post, Hyderabad - 500 062.

ENQUIRY No. EC/PUR/TAD/ 1961/612121

DATE: 2013.11.08

DUE DATE: 2013.11.25

Ph:

e-mail:

OFFICE COPY

Contact: YHL(SM), yhemalatha@ecil.co.in

Dear Sir(s),

Kindly submit you quotation in a Sealed Envelope Superscribing Enquiry No. and Due Date for the supply of the following items as per terms and conditions overleaf to PURCHASE MANAGER - CONTROL & AUTOMATION DIVISION ECIL, HYDERABAD-62. QUOTATIONS AGAINST EACH TENDER SHALL BE SENT IN SEPARATE ENVELOPE. QUOTATIONS RECEIVED AFTER THE DUE DATE AND TENDERS SENT IN OPEN/UNSUPERSCRIBED ENVELOPE WILL BE REJECTED. PLEASE SEND REGRET LETTER, IF YOU ARE NOT ABLE TO QUOTE TO CONTINUE TO KEEP YOUR NAME IN OUR MAILING LIST.

IMPORTANT INSTRUCTIONS

Parties must give the following information otherwise offer may be rejected.

- | | |
|--|---|
| 1. Unit Rate and Terms of price | 6. Estimated Packing and Forwarding Charges |
| 2. Quantity discount if any | 7. Validity of quotation |
| 3. Rate of Excise Duty, Sales Tax if any | 8. Terms of payment |
| 4. Firm Delivery schedule | 9. Sales Tax Registration Number/
VAT and Service Tax Regn. No |
| 5. Mode of despatch | 10. SSI/NSI Regn. No. |

Sl.No.	Material Description and Specification	Estimated Requirement	
		Unit Code	Quantity
1	Additive Manufacturing /Rapid Prototyping Machine, as per Annexure A.	Nos.	1
2	Finishing Touch Smoothing Machine as per Annexure B.	Nos.	1
Note: i) 1 & 2 should be procured from same supplier for ease of maintenance. ii) The Tender is Two part bid comprising of Technocommercial and Price bids. The Technical bid constitutes Qualifying criteria as per Annexure-D. Subsequently the price bids of the short listed parties only would be opened. iii) You shall provide technical data for compliance of the eligibility criteria. iv) Systems will be inspected as per the approved ATP Document.			

NOTE: 1. CERTIFICATE OF COMPLIANCE/BATCH CERTIFICATE /CODE/CMRI/ATX/WARRANTY TEST CERTIFICATE SHALL BE FURNISHED. PLEASE CONFIRM.

2. DATA SHEETS (CATALOGUES) SHALL BE SUPPLIED WITH THE QUOTATION.

3. IF THE MATERIAL IS COVERED UNDER DGS & D RATE CONTRACT. PLEASE QUOTE THE RATES ACCORDINGLY.

4. IF THE MATERIAL IS COVERED UNDER EXCISE, FURNISH EXCISE TARIFF NUMBER AND CLASSIFICATION.

Yours faithfully,

For **Electronics Corporation of India Limited**

वाई. हेमलता / Y. HEMALATHA
 वरिष्ठ प्रबंधक / Senior Manager
 सी ए डी - क्रय / CAD-PURCHASE
 ई सी आई एल, हैदराबाद
 ECIL, HYDERABAD-500 062

Phone : +91-40-2718 6619, 2718 2395 & 2718 2242, 2712 1013
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ENQUIRY No. EC/PUR/TAD/

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Sl.No.	Material Description and Specification	Estimated Requirement	
		Unit Code	Quantity
	<p><u>Special Notes.</u></p> <p>1. OUR PAYMENT TERMS ARE 90 DAYS CREDIT. PLEASE QUOTE WITH THE SAME TERMS.</p> <p>2. PLEASE SEND CATALOGUES AND DATA SHEETS ALONG WITH YOUR OFFER.</p> <p>3. PLEASE QUOTE TERMS OF PRICE AS FREE DELIVERY TO OUR STORES</p> <p>4. THE ABOVE MATERIALS ARE URGENTLY REQUIRED. PLEASE QUOTE EARLIEST DELIVERY DATE.</p> <p>5. IF YOU ARE UNABLE TO QUOTE, SEND REGRET LETTER POSITIVELY BY FAX/MAIL. OUR FAX NO 27121013 ANAD MAIL ID yhemalatha@ecil.co.in. TO ENABLE US TO KEEP YOU IN MAILING LIST.</p>		

- NOTE:**
- CERTIFICATE OF COMPLIANCE/BATCH CERTIFICATE / CCOE/CMRI/ATX/WARRANTY TEST CERTIFICATE SHALL BE FURNISHED. PLEASE CONFIRM.
 - DATA SHEETS (CATALOGUES) SHALL BE SUPPLIED WITH THE QUOTATION.
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Yours faithfully,

For **Electronics Corporation of India Limited**

वाई. हेमलता / Y. HEMALATHA
 वरिष्ठ प्रबंधक / Senior Manager
 सीएटी-कय / CAD-PURCHASE
 ई सी आई एल, हैदराबाद
 ECIL, HYDERABAD-500 062

Detailed Specifications: Technology & Machine

Sl No	Heading	Description
1	Technology	Additive Manufacturing / Rapid Prototyping system capable of producing physical models & assemblies to check fitment, form, ergonomics & visualization, produce hydroforming tools, jigs and fixtures, composite tooling, investment casting patterns with internal honeycomb structures etc., through temperature controlled filament extrusion for uniform layering/deposition process. Non-laser based technology that does not involve human exposure to any form of solvents/resins/powders/hazardous chemicals etc. Ability to insert electronics and other inserts like sensors, magnets, RFIDs etc in the part build by pausing the machine is mandatory.
2	Build Size	914 x 610 x 914 mm (36 x 24 x 36 inches)
3	Materials	Industrial grade thermoplastics like ULTEM/ABS-ESD7/ABS/PC which are strong, durable, static dissipative and are not hygroscopic or photosensitive post build.
4	Layer thickness	0.18 mm or better
5	Software	Automatic pre-processing, slicing, support generation, part packing/nesting /custom & standard/sparse build generation for printing parts. Software bundled with RP system and supplied with Windows 7 /XP compatibility
6	Facility Requirements	Machine compatible of working in office environment setup with no special requirements like nitrogen supply, venting etc
7	Network Connectivity	TCP/IP 10/100 base T Connection Ethernet Protocol
8	Workstation Compatibility	Windows 2000/ XP/7
9	Operator	Easy to use and hands free to maximum possibility. Unattended lights out operation with limited human intervention for job start & stop.
10	Warranty	Completely 'comprehensive warranty' for at least 12 months. During the warranty period, should there be a failure of any parts, vendor should replace it at free of cost without charging taxes/excise/custom duties. The comprehensive warranty should cover all the parts of the machine including electrical, electronic and mechanical systems/components.

Detailed Specifications: Material & application (Contd...)

1. Materials should be strong and durable thermoplastics for fit form and functional testing.
2. Should be capable of producing complex assemblies.
3. Materials with anti-static or static dissipative properties for electronic enclosures.
4. Materials should come in multiple color options.
5. Parts have to be capable of being used as pattern for sand & investment casting application
6. Durable materials that can withstand wind tunnel testing for subsonic applications.
7. Materials capable of withstanding temperatures of 250 deg. C or better.
8. Materials to have a shelf life of at least 24 months from the date of supply.
9. Capability to have metal inserts as part of the build for additional strength requirements.
10. Materials to support composite tooling for composite wet layups etc.
11. Aerospace grade materials with necessary certifications from the governing agencies like DGCA/FAA or EASA will be preferred.
12. Mandrels created in the RP machine should be soluble after winding the filament winding for making complex profiled aerospace ducting and curing in the autoclave.
13. Regulatory certified materials which can be used for manufacturing and end use applications in aerospace & avionics industry.
14. Materials should withstand pressures and thermal expansions when working in tandem with industrial grade epoxies for tooling applications.
15. Materials capable of handling general autoclave curing temperature of 180 deg. C and to withstand the air pressures required for composite tools curing.

Software and Process

1. Software should be capable of :
 - a. Automatic pre-processing with slicing
 - b. Support generation
 - c. Part packing and nesting
 - d. Custom & standard sparse builds.
 - e. Slice edit feature to fix bad stl files.
 - f. Capability to section large parts with feature alignment options.
 - g. Support structure customization.
 - h. Seam and curves optimization with clipping and filtering options.
 - i. Capable of processing stl files generated from reverse engineering processes.
2. Machine and the process have to be clean and non- dusty and which can be installed in a design office setup.
3. The process has to be safe and should not emit harmful radiation, hazardous lasers or toxic fumes.
4. The materials has to be eco-friendly and completely recyclable as per the local governing norms.
5. The wastage (if any) has to be non- hazardous and should not require any special procedures / treatments and the wastage has to be cleared by the environmental board.
6. Operator intervention to be minimal and has to be unattended lights out operation

Detailed Specifications:

Sl.No.	Heading	Description
1	Technology	Semi-automated processes that improve the surface finish of thermoplastic parts to near injection moulded quality finish without the labour and cost associated with traditional manual finishing techniques.
2	Chamber Size	330 x 406 x 508 mm (13 x 16 x 20 inches)
3	Materials	Thermoplastics of RP system compatible ABS variants
4	Smoothing media	Smoothing Station Fluid (SSF) from Micro care or equivalent
5	Toxicity	Non-toxic process and materials
6	Facility Requirements	Requires 4 in (102 mm) exhaust to outside Well-ventilated area Maximum room temperature of 85°F (29.4°C) Maximum room humidity of 85% RH
7	Operator	Intermittent operator attendance to expose Parts.
8	Additional Requirements	Compressed Air Required Compressed air minimum of 5 CFM @30 psi

1. Machine quoted should be from the standard range of production of the firm and the quoted model should be in the market minimum for the last 5 years. No proto type or developmental basis machine will be acceptable.

- The Bidder should be a manufacturer /authorized representative of a manufacturer who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the "Technical Specification". The Manufacturers' Authorization Form must be enclosed with the technical bid. Equipment / System offered must be of the most recent series/models incorporating the latest improvements in design. The models should be in successful operation for at least one year as on date of Bid Opening.

2. The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):

- a) The bidder (OEM/Direct Distributor/Dealer) should have supplied and installed during past 3 years, at least two similar equipment/systems. The Bidder should furnish the information on all past supplies and satisfactory performance during past 3 years.
- b) Bidders shall invariably furnish documentary evidence (client's certificate) in support of the satisfactory operation of the equipment / system.
- c) Bidder shall completely conform to the technical specifications of the tender requirement, failing which the bid shall be liable to be rejected

3. Details of Service Centres and information on service support facilities that would be provided after the warranty period.

4. Either the Indian Agent on behalf of the foreign principal or the foreign principal directly could bid in a tender. However, the offer of the Indian Agent should also accompany the authorization letter from their principal. In case of foreign principal, a self-declaration should be included

5. The firm should demonstrate the capability of the machine in processing of ABS, High strength thermoplastics, high heat resistant thermoplastics, High Impact strength thermoplastics by building some samples as mentioned in the technical specifications.

6. Machine features and capabilities are to be demonstrated after installation and commissioning of the machine at ECIL. The acceptance test will be conducted by the ECIL, their consultant or other such person nominated by the ECIL at its option after the equipment is installed at ECIL's site in the presence of supplier's representatives. The acceptance will involve trouble free operation. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of the equipment is expected to occur.

7. The period of validity of warranty shall be: 36 (thirty six) months and will be comprehensive.

The bidders who do not fulfil the above Qualification Criteria shall be rejected during the Technical Evaluation of Bids.

INSTRUCTIONS AND COMMERCIAL CONDITIONS
ENQUIRY NO: 612121

NOTES:

1. The Quote is to be submitted by courier in Duplicate.
2. We require validity for at least 30 days from the date of your Price Bid.
3. The Standard Liquidated Damages clause is applicable for delayed deliveries. The Clause Read as "In the event of any delay in Deliveries according to Purchase Order, Liquidated Damages will be recovered @ ½% per week subject to maximum of 5% on undelivered portion.
4. The standard Risk Purchase Clause is applicable to this requirement. The Clause Read As "In the event of failure to comply with the Purchase Order Terms & Conditions, ECIL has Right to cancel the order and proceed with an alternate source. In such case, you shall have to bear the extra cost incurred by us which will be recovered from your available Credits. Please convey your acceptance in your quote.
5. Arbitration: All disputes or differences whatsoever arising between the parties out of or relating to the construction meaning and operation or effect of this contract or the breach thereof shall be settled by arbitration in accordance with the rules of arbitration of the Indian council of arbitration, the venue of arbitration being in India and the award made in pursuance thereof shall be binding on the parties
6. EMD: Earnest Money Deposit shall be submitted in the form of Bank Guarantee/DD for Rupees 2 Lakhs along with the quotation in a separate envelope. EMD Security Deposit waived off for small scale Industries. Documentary Evidence should be provided.
7. . Security Deposit: Shall be provided for the amount of 25 Lakhs immediately after receiving the purchase order. However this amount can be converted into Performance Bank Guarantee.
8. Please comment on each of above Clauses in your quote without fail and also comment on technical specifications in your quote.