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ENQUIRY No.EC/EMSD/PUR/2900/4412/1115

DATE: 17.10.2014

DUE DATE: 15.11.2014

ELECTRONICS CORPORATION OF INDIA LIMITED
(A Govt. of India Enterprise)
Electronic Manufacturing Services Division
Industrial Development Area, Phase-II,
Cherlapally,
HYDERABAD – 500 051

PLEASE SUBMIT YOUR QUOTE IN SEALED ENVELOPE SUPERSCRIBING RFQ ENQUIRY & DUE DATE BY POST / COURIER TO THE UNDERSIGNED. QUOTE YOUR BEST PRICE ETC., FOR THE FOLLOWING ITEM/S SO AS TO REACH US ON OR BEFORE DUE DATE AND TIME.

NOTE: QUOTATIONS RECEIVED THROUGH EMAIL / FAX WILL NOT BE CONSIDERED

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| 01. “3D SOLDER PASTE INSPECTION SYSTEM (LATEST VERSION)” | - 02 NOS |
| (TECHNICAL SPECIFICATIONS AS PER ANNEXURE-I) | |
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GENERAL TERMS AND CONDITIONS:

THE QUOTE IS TO BE SUBMITTED BY HAND/POST/COURIER DULY SUPERSCRIBING OUR REFERENCE OF OUR “REQUEST FOR QUOTATION”.

THE BID SHALL BE IN TWO- PARTS:

TECHNICAL BID AND PRICE BID ENCLOSED IN SEPARATE SEALED ENVELOPES EACH SUPERSCRIBED WITH THE REFERENCE OF REQUEST FOR QUOTATION. THESE TWO PARTS SHOULD BE TOGETHER PUT IN A SINGLE SEALED ENVELOPE SUPERSCRIBED WITH REFERENCE OF REQUEST FOR QUOTATION AND SUBMITTED. THE PRICE BIDS WILL BE CONSIDERED FOR ONLY THOSE OFFERS WHICH QUALIFY IN TECHNO-COMMERCIAL BID EVALUATION.

OPENING OF TENDER:

TECHNICAL BIDS WILL BE OPENED ON 17TH NOVEMBER, 2014, THE MONDAY AT 2 PM BEFORE THE BIDDERS PRESENT.

ANNEXURE -I				
TECHNICAL SPECIFICATIONS FOR 3D SOLDER PASTE INSPECTION SYSTEM				
S No	Parameter		Specifications	Complied
A	Basic specifications			
1.1	Functions	1.1.1	3 Dimensional solder paste Inspection & measurement	
		1.1.2	Complete Computer Control Operation with Programmable Automatic inspection	
1.2	Type of Measurements required		Paste Volume, Area, Height, Offset, Bridging and shape deformity	
1.3	Type of defects to identify		Insufficient / excessive / missing Paste, Bridging, shape Deformity, Paste Offset, Paste coverage problems	
1.4	Measurement Principle		Lighting Method should ensure shadow free images.	
1.5	Light Source		White LED / RGB LED	
1.6	Camera		High resolution 4Mpix High Speed camera or above	
1.7	X-Y Pixle size		20µm	
1.8	Field of View (FOV)		47 x 34.6mm	
1.9	Inspection time for FOV		0.29 seconds	
2	Paste Height Range		0.37 to 400µm (0 to 15.75 mils)	
2.1	Volume repeatability		< 1% at 3σ (on KY Calibration target), < 3% at 3σ (on a PCB)	
2.2	Height Accuracy Range		1.5µm (15µm resolution)	
2.3	01005 capability Gage R&R		<< 10% at 6σ on 01005 deposit	
2.4	Height Resolution		0.37µm	
2.5	No PCB color sensitivity		Machine should be Capable of inspecting RED, BLACK, BLUE & DARK GREEN PCB's with 100% results	
2.6	Conveyor width adjustment		Automatic - Programmable in Product Recipe	
2.7	Fixed Rail Conveyor		Front	
2.8	PCB Clamping method		Edge Clamping with Backup pin Support	
2.9	Min. Board size		60 X 60 mm	
3	Max Board size to be handled		500mm x 500mm	
3.1	Board Thickness		0.4mm to 5mm	
3.2	Board edge clearance		5mm	
3.3	Underside component clearance		15mm	
3.4	Board War page compensation		± 5.0mm	
3.5	Machine Control		PC Control	
3.6	Monitor		17" TFT/LCD (1600 X 1200)	
3.7	Software's		A) Windows XP Professional Operating system & above B) Import Gerber software tool	

ANNEXURE -I			
TECHNICAL SPECIFICATIONS FOR 3D SOLDER PASTE INSPECTION SYSTEM			
S No	Parameter	Specifications	Complied
3.8	Inspection machine type	Automatic Inline system	
3.9	Power Supply	200 - 240VAC, 50/60Hz, single phase, 10A	
4.0	Spares and accessories along with machine	A) 1 set of consumable spares like bulbs, fuses, sensors, belts filters to be supplied with the machine B) Tool kit to be supplied C) Calibration kit/ Jig to be supplied.	
4.1	Safety Compliance	CE certification must be required	
4.2	Noise level	Should be less than 73dB	
4.3	Barcode Reader	Optional Barcode reader for Top & Bottom Barcode reading capability separately	
4.4	Offline Programming	Availability of Offline Programming software tool	
4.5	Communication of Inspection results	4.5.1 Automatic board movement to next process if found OK	
		4.5.2 Visual/Audible Process Stop Alarm if board is defective.	
		4.5.3 Display of the PCB on the monitor with results of inspection.	
		4.5.4 Recording of Results with PCB Bar code.	
4.6	Bar code reading	Required to read 1D/2D barcode on PCB	

S No	TERMS & CONDITIONS	Clause		Complied
5	QUALIFICATION DOCUMENTS	5.1	Bidders must be the original equipment manufacturers or their authorised agents only.	
		5.2	Only one bid must be submitted either by the manufacturer or their authorised agent.	
		5.3	The authorised agent should submit documentary evidence to that effect along with the bid.	
		5.4	In case multiple bids are submitted by manufacturer or their authorised agents, the bids would be liable for rejection.	
		5.5	The bid must be accompanied by documentary evidence of similar equipment having been supplied to customers in India in the last 3 years along with the performance certificates from the users. In case such equipment has not been supplied to Indian customers, details of customers in other countries to whom such equipment has been supplied, in the last three years, should be provided along with the performance certificates from such users.	
		5.6	The manufacturer should have their authorised service agent in India. Service engineer training & experience certificate form OEM should also be enclosed.	
6	BID DOCUMENTS	6.1	The bid must be submitted in two parts.	
		6.2	The first part, marked "Techno-commercial" should contain all technical, commercial and qualification documents except the price. The commercial terms and conditions should also be part of the Techno-commercial bid.	
		6.3	The second part, marked "Price Bid" should contain the unit rate and total price. No other information should be included in the price bid.	
		6.4	Price should not be mentioned anywhere in the techno-commercial bid. Failure to comply with this requirement would render the bid liable for rejection.	

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6	CONTINUED.. BID DOCUMENTS	6.5	Clause-wise compliance statement of technical specifications	
		6.6	Clause-wise compliance of commercial conditions	
		6.7	Deviations from technical specifications and commercial conditions, if any	
		6.8	Technical data and catalogues	
		6.9	a) List of international standards to which the equipment conforms along with documentary evidence. b) Machine should comply with CE / UL certification	
		6.10	List of customers to whom similar equipment has been supplied in the last 3 years	
		6.11	Performance certificates from the customers	
		6.12	The list of tools, accessories, calibration and preventive maintenance kits that will be supplied along with the equipment.	
		6.13	Copy of the price bid with the values replaced with "xxx"	
7	SPARE PARTS	7.1	List of basic spare parts and consumables kit required for operation and maintenance of the equipment up to the warranty period	
		7.2	List of spares recommended for 5 years operation after the warranty period which should include all parts prone to wear-and-tear, all printed circuit boards and consumables.	
		7.3	Confirmation of availability of spares and service for a period of 10 years beyond the warranty period.	
8	GENERAL TERMS	8.1	Prices should be quoted CIF Hyderabad, India.	
		8.2	The bids should be valid for a period of 120 days from the due date of the tender.	
		8.3	The equipment quoted should be brand new.	
		8.4	The price bids of only technically qualified bidders would be opened and considered for placement of order.	

S No	TERMS & CONDITIONS	Clause	Complied
9	INSTALLATION AND COMMISSIONING	9.1	Special requirements for installation and commissioning including power, civil works, clean room, air-conditioning and ventilation.
		9.2	Installation and commissioning of the equipment at ECIL should be carried out by the supplier at no additional cost . The supplier should demonstrate the full capabilities of the equipment during commissioning.
		9.3	The supplier's representative should visit the site and indicate the works to be carried out to make the site ready for the installation and commissioning of the equipment
		9.4	In case of delay in supply and/or installation and commissioning of the equipment beyond the agreed schedule, penalty would be levied at 0.5% of the equipment value per week or part thereof, subject to a maximum of 10% of the order value.
10	TRANING		One week training on operation, maintenance, programming and basic troubleshooting to be provided to ECIL engineers at the time of commissioning.
11	MANUALS	11.1	Two sets (each set comprising of one hard copy and one soft copy) of operation, programming and maintenance to be supplied with machine
		11.2	Machine drawings should contain Mechanical assembly details, Electrical drawings (including schematic & wire drawings) and Spare part list (including mechanical & electrical parts) for the model offered.
12	DELIVERY		The equipment should be delivered preferably within 12 weeks of the release of order.
13	COC		Certificate of conformance along with test results should be furnished along with invitation for pre-despatch inspection.

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14	INSPECTION	14.1	List of tests that would be conducted during pre-despatch inspection.	
		14.2	The travel and living expenses for pre-despatch inspection would be borne by ECIL.	
		14.3	The equipment should be despatched only after satisfactory completion of pre-despatch inspection at manufacturer’s site for the full range of operations and to be witnessed by ECIL	
15	SOFTWARE UPGRADATION	All software updates should be sent at free of cost		
16	PAYMENT TERMS	Payment terms would be as follows: a. 80% of the supply value through irrevocable letter of credit with a usance of 60 days. b. Balance 20% upon acceptance of the equipment post installation and commissioning at ECIL. However, all bank charges inside India will be borne by ECIL and outside India to your account only.		
17	BANK GUARANTEE	The successful bidder should submit a performance bank guarantee equivalent to 10% of the order value before the final 20% payment is released. The performance bank guarantee should be valid till the end of the warranty period and should have a claim period of 1 month		
18	WARRANTY	18.1	Availability of warranty and post-warranty support	
		18.2	Confirmation of availability of AMC for a period of 5 years post-warranty, the prices for which should be included in the price bid.	
		18.3	The equipment warranty should be for a period of 42 months from the date of supply or 3 years from the date of commissioning whichever is earlier. The warranty should be comprehensive on-site warranty inclusive of all charges towards spares, labour, freight, insurance, taxes and levies. Preventive maintenance should be carried out as per schedule during the warranty period. The preventive maintenance schedule should be detailed in the techno-commercial bid.	

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19	SERVICE SUPPORT	19.1	Breakdown calls should be attended to and the equipment restored to running condition within 48 hours of intimation during warranty and AMC. Any delay would result in a penalty of 0.1% of the equipment value per day or part thereof.
		19.2	Details of their authorised service agent who should be contacted for service requirements.
20	LIQUIDATED DAMAGES		In the event of any delay in supply beyond the stipulated delivery schedule, Liquidated damages will be recovered at the rate 0.5% per week of delay subject to maximum of 10% of the value of the order.
21	RISK PURCHASE		In case of failure to deliver the goods within the delivery date stipulated in the purchase order, unless prior extension of delivery period is obtained, ECIL will be at liberty to obtain such items as necessary from other sources and recover the additional costs incurred from the supplier
22	ORDER CANCELLATION	22.1	ECIL will be at liberty to cancel the order if the equipment is not delivered within the delivery date specified in the order including any extensions granted.
		22.2	ECIL has the right to close the tender without placing the order without assigning any reasons.

- 1. Please provide point-wise compliance to all our above terms and conditions/notes.**
- All further clarifications regarding this tender and all communications including e-mails and letters and minutes of meeting shall be treated as part of the tender.
- For any clarifications, please contact Shri. K.P Reddy, Senior Manager, EMSD, and ECIL, e-mail: puremsd@ecil.co.in; puremsd@gmail.com, Phone: 9949079313/040-27260071.