

NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA-769008 (ODISHA)

An Institute of National Importance under Ministry of HRD, GOI

NOTICE INVITING TENDER

Tender Notification No: NITR/PW/ME/2018/51 Dated: 10/09/2018

The National Institute of Technology, Rourkela invites bids from the eligible bidders for procurement of **Semi-automatic pick and place machine and accessories**.

Last date of Submission of Bid: 03/10/2018 at 11:00 AM

Opening date of technical Bid: 04/10/2018 at 11:00 AM

For Details:

http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx

Contact: Dr. Tarapada Roy , ME; Ph: +91-661-2462507;

Email: tarapada@nitrkl.ac.in

Bidding through: https://eprocure.gov.in/eprocure/app

sd/-

REGISTRAR



NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA-769008, ODISHA

(TENDER NOTICE NO.: NITR/PW/ME/2018/51 dated: - 10/09/2018) (PURCHASE OF Semi-automatic picks and place machine and accessories)

Item No	DESCRIPTION	Quantity
1	Semi-automatic pick and place machine	1 Unit
2	High Precision Manual Stencil Printer	1 Unit
3	Hot Air Convection Reflow Oven	1 Unit

1. Quantity required : as mentioned above(All information regarding technical specification provided in the Annexure-I)

2. Delivery : Within 60 days from the date of purchase order

3. Last Date of submission of Tender: 03/10/2018 at 11:00 AM

4. Date of opening of technical bid : 04/10/2018 at 11:00 AM

5. The firm should not have been black listed at any time.

6. The submission of following bids by the tenderer should be through https://eprocure.gov.in/eprocure/app. Please follow the guidelines as per the portal.

PURCHASE OF Semi-automatic pick and place machine and accessories

(Tender Notice No.: NITR/PW/ME/2018/51 dated: 10/09/2018) Due on 03/10/2018 at 11:00 AM

- 7. **Liquidated damage clause** will be charged for any delay in supply of goods.
- 8. The validity of the tender shall be 90 days from the date of opening of the bids.
- 9. Detailed advertisement including all tender documents is also available in our website at http://nitrkl.ac.in/OldWebsite/Jobs Tenders/9Equipment/Default.aspx.
- 10. NIT reserves the right to qualify or deny prequalification of any or all applicants without assigning any reasons.

(REGISTRAR) NIT, Rourkela Fax No- 0661-2462022 Ph. No -0661-2472021

Specifications of Semi-automatic pick and place machine and accessories

Item No	DESCRIPTION		
1.	Specifications of Semi-automatic pick and place machine:		
	SEMI AUTOMATIC PICK AND PALCE WITH INTERFACE SOFTWARE		
	PCB holder: Micro adjust holder (X, Y, theta)		
	Placement speed: 400-600 cph		
	Placement speed IC: 100-200 cph		
	Dispensing Speed: 1000-1500 dots/hour		
	Tunable capacity: 45 or 90 bins		
	Tape/stick capacity: 12 feeders (8 mm, 12mm, 16mm, SOP-8 to PLCC84)		
	Traytable capacity: 1 jdec		
	Mini tray 40 ×40 mm capacity: 22 pieces per turntable		
	Backside feeder capacity: 25 ×8 mm tapes instead of turntable		
	Tape strip feeder: 3 ×8 mm +1 ×12 mm+1 ×16 mm		
	Component range: 0402 to infinite, 0201 with optional micro camera		
	Min. lead pitch: 0.4 mm (with prism)		
	Min. PCB dimension: 25 ×25 mm		
	Min. PCB dimension: 410 ×246 mm		
	Temperature: 15-25° C		
	Pickup needle set:		
	Inner diameters 0.4mm, 0.51 mm, 0.84mm, 1.6 mm, fine pitch needle (out. Diameter 6 mm), and automated placement		
2.	Specifications of High Precision MANUAL STENCIL PRINTER:		
	Application: Print the Solder Paste onto the Bare PCB thru Laser cut Stencil, this sources applying Controlled Amount of the Solder Paste in Good Printing Accuracy & repeatability.		
	i. Localization way: trilateral positioning or PIN location		
	ii. Calibration method: manual fine-tuning		
	iii. Calibration direction: X direction, Y direction,		

	iv. Screen printing effective area: 400mm × 250mm		
	v. Overall dimension: $565\text{mm} \times 430\text{mm} \times 255\text{mm}$		
3.	Specifications of Hot Air Convection Reflow Oven:		
	The heating zone quantity: upper3/down2		
	The length of the heating zone: 960mm		
	The heating type: intelligent level sirocco and rapid infrared heating		
	The cooling zone quantity: 1		
	Maximum width of PCB board: 300MM		
	The operation direction: left→right		
	The speed of conveyer belt: 0-1600mm/min		
	The power supply: Three phase 5 line 380V 50/60Hz		
	Peak power: 4.5KW		
	Heating up time: Around 15 mins		
	Temperature control range:	Room temperature to 300°C	
	Temperature control mode:	PID closed-loop control	
	Temperature control accuracy:	±1°C	
	PCB temperature distribution deviation:	±2°C	

Other Qualification Criteria: .

- 1. Web references must be provided along with the technical bid.
- 2. Pointwise technical compliance along with any deviation of the mentioned specifications (**Annexure-I**) must be indicated along with technical documents.
- 3. Customized equipment and accessories (as per **Annexure-I**) will not be accepted. The standard equipment and accessories (as per **Annexure-I**) will only be accepted.
- 4. Make and model no. should be mentioned along with the technical bid
- 5. Dealership Certificate and Proprietary Nature Certificate (If applicable) must be provided along with technical bid.