



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH

PUNE

CLARIFICATION ON TENDER NUMBER - IISER-PUR-1530-18

ITEM DESCRIPTION- PROCUREMENT OF ELECTRODE COATING MACHINE, SLITTING MACHINE, WINDING MACHINE, TOP & BOTTOM WELDING MACHINE, TAB WELDING MACHINE AND DIFFUSION CHAMBER

Refer our Press Tender Notice No.IISER/S&P/21/2018 dated 15.3.2019 for procurement of Electrode Coating Machine, Slitting Machine, Winding Machine, Top & Bottom Welding Machine, Tab Welding Machine and Diffusion Chamber. Tender Reference Number - IISER-PUR-1530-18.

Pre-Bid meeting was held on March 22nd, 2019 at 3.00 pm and minutes of meeting is as under.

At the outset, the Chairman welcomed all the Members and the representative of the Prospective Bidders and briefed in general the scope of the Project and thereafter requested Assistant Registrar (S&P) to brief the vendors on the salient features of the commercial terms and the indenting Officer to read out the clarification sought by the Prospective Bidders and replied thereto as detailed in Annexure -II

The representatives present were satisfied with the replies given and it was informed that the corrections / additions / clarifications given, as discussed during the Pre-Bid Conference would be hosted on the website of IISER Pune and all the Prospective Bidders are required to take cognizance of the proceedings of the Pre-Bid Conference before submitting their bids as stipulated in the Bidding Documents.

The other terms & conditions of the notice issued on our IISER website www.iiserpune.ac.in will remain unchanged. No more correspondence in this regard will be entertained

The meeting ended with vote of thanks to the Chair

22.3.2019

Sd/-
Assistant Registrar (S&P)



IISER PUNE

PRE-BID CONFERENCE FOR PROCUREMENT OF ELECTRODE COATING MACHINE, SLITTING MACHINE, WINDING MACHINE, TOP & BOTTOM WELDING MACHINE, TAB WELDING MACHINE AND DIFFUSION CHAMBER

TECHNICAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISER-PUR-1530-18

DATE : 22.3.2019

S.No	Query/Clarification Sought	Clarification / Amendment
1.	We have found that TENDER mentioned System Size / Dimension , Shipping Size / Dimension/Weight ; Two different company never match same dimension & weight . We believe apart from some hidden / flexible specifications , all instruments are specified to a particular manufacturer.	The specifications have been amended as placed below

Chapter 4 – Schedule of Requirements, Specifications and Allied technical details

Electrode coating machine

Traverse Speed	<ul style="list-style-type: none">• 0 - 100 mm/sec variable• Accuracy: 10mm/sec or better
Stroke Length	10 - 700 mm adjustable by using Adjustable Position Switch
Minimum Coating Dimensions	250mm(W) x 700mm(L)
Platform	Aluminum alloy flat vacuum chuck Vacuum Chuck Dimensions: 800mm(L) x 300mm(W) x 30mm(H) or appropriate for the above stated coating dimensions
Vacuum Pump	Noise level ≤ 60 dB(A), Vacuum level: 80~100 torr
Film Applicator	One <u>Micrometer Film Applicator</u> (coating width should adjustable in the range of 0 to 250 mm), with adjustable thickness from 0.01 mm - 5 mm (or more)
Heating Lid	Working power ~1150W or more Should have fan with adjustable speed (0-2000rpm)

Slitting Machine

Technical Parameters:

- Hob diameter: ~ Φ 80mm
- Speed: up to 10m/min adjustable
- Electrode Cutting thickness: 10-300 micron
- Match a set of cutter
- The cut size should be in the range (10 mm to 50 mm adjustable)
- The cutter quality: No burr.
- Material of cutter: Preferable Tungsten steel
- Width of cutting roll: 20-300 mm

Winding Machine

It is a semi-automatic winder for winding electrodes with separator together in the research of Li-ion cylinder batteries.

SPECIFICATIONS:

Winding Speed	0 - 250 RPM Adjustable
Winding Shaft	1, Dimensions: 4mm(OD) x 65mm(L) for 18650 cylinder battery core It should be possible to use this for smaller dimensions of cylindrical cells having length up to 10mm
Rotate speed	0-170rpm/min, adjustable
Winding Mode	Switchable between clockwise and counterclockwise

Top and Bottom Welding Machine

Specification	<ul style="list-style-type: none">➤ output maximum power: 10 kw➤ welding current: 00 to 99 A➤ power supply: AC220V plus or minus 10% 50 ~ 60 hz➤ input pressure: 0.3 ~ 0.7 MPa➤ applicable scope: is suitable for the various welding pieces of 0.03 mm to 0.25 mm➤ the weight: Should not be more than 50 kg➤ installation dimensions: Should not be more than (L800 * H1200mm *W560)➤ Welding should be suitable for Aluminum/Nickel tab with current collectors (Cu or Al foils)
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Tab Welding Machine

The main specification and performance

- 1) Tab welder is worked through solid phrase weld, and the weldments are effected by high-mode vibration and the stress of all the work pieces.
- 2) Max output power : 1000VA
- 3)frequency: Min 25KHZ±10%
- 3) input voltage : 220V±10%
- 4) Air supply : Working pressure 0.4~0.6Mpa, humidity less than 48%, high temperature not exceed 45°C.
- 5) control way : CPU
- 6) working stroke : 15mm
- 7) welding time : less than 1S
- 8) Welding area: Min 4mm x 4mm

8) welding ability : multilayer copper and aluminum below 0.3mm

9) Size: L×W×H(mm): Welding Head : Should not be more than (420mm x180mm x290mm)

Main Case : Should not be more than (480mm x365mm x202mm)

10) Air-Compressor with required pressure range as mentioned above must be included

Diffusion Chamber

Specifications

Parameter	* cavity is made of aluminum alloy corrosion resistance, firm structure. * let stand time can be set to 0-99.99S is adjustable * vacuum upto - 90 kpa * the compressed air source pressure: 0.5 ~ 0.7 Mpa * chamber volume in the body: About W300mm L330mm* H300mm *Max opening height of chamber: About 200mm Machine should be Glove Box compatible
	<ul style="list-style-type: none">• Air Inflation Time: 0 - 99.99 sec• Vacuum Condition Hold Time: 0 - 99.99 sec• Suitable Vacuum Pump & Air Compressor must be included.
	<ul style="list-style-type: none">• Cylinder Slot Tray is working for the cylindrical cell type of battery



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COMMERCIAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISER-PUR-1530-18

DATE : 22.3.2019

S.No	Query/Clarification Sought	Clarification / Amendment
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