



केन्द्रीय इलेक्ट्रॉनिकी अभियान्त्रिकी अनुसंधान संस्थान

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**EXPRESSION OF INTEREST FOR PROCUREMENT OF  
"Vacuum Processing Station for Microwave Tube Vacuum Processing"**

Director, CSIR- CEERI, Pilani invites interested manufacturer / authorized distributors only to participate in per-indent conference for procurement of the "Vacuum Processing Station for Microwave Tube Vacuum Processing" which is required for processing of Microwave Tubes of maximum size 400 mm dia.X600 mm ht. and weight 8-10 Kg. at 600 °C maximum with temperature uniformity of  $\pm 5^{\circ}\text{C}$ . The System has TWO Base Plates made of Stainless Steel 304L with TWO ports with a common bell jar for heating. There will be a common lifting mechanism for the bell jar. Therefore, the system should have a suitable combination of TWO sets of UHV grade pumps to obtain an ultimate vacuum of  $1 \times 10^{-10}$  Torr or better on each port. Also a suitable mechanical pump is provided to generate guard vacuum of better than  $1 \times 10^{-2}$  Torr. The complete system should be leak tested using helium leak detector up to the leak rate of  $2 \times 10^{-10}$  Torr. Incoly sheathed tubular heaters arranged in a serpentine fashion is to be provided in the bell jar. A suitable branded chiller may also have to be provided for cooling the bell jar. All control instrumentation such as Auto/Manual Vacuum Controller, programmable logic controller, safety devices an interlocks, temperature controller etc. are to be provided. The meeting will be held on 22.8.2013 at 2.30 P.M. in CEERI New Conference Room. The interested participants should visit CSIR-CEERI, Pilani at their own cost and should bring supporting documents i.e. leaflets/technical literature and also be able to deliver technical presentation of the Vacuum Processing Station for Microwave Tube Vacuum Processing.

Stores & Purchase Officer