



केन्द्रीय इलेक्ट्रॉनिकी अभियान्त्रिकी अनुसंधान संस्थान

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EXPRESSION OF INTEREST FOR PROCUREMENT OF “ VACUUM PROCESSING STATION”

Director, CEERI, Pilani invites interested manufacturer / authorized distributors only to participate in pre-indent conference for procurement of **Vacuum Processing Station for High Power Microwave Laboratory** on 30.09.2011 at 2.30 P.M. in CEERI New Conference Room. The interested participants should bring supporting documents i.e. leaflets/technical literature and also be able to deliver technical presentation of equipment at CEERI, Pilani at their own cost. The details of expression of interest i.e. The Vacuum Processing Station is required in high power microwave laboratory for processing of large size microwave tubes. It should have vertically mounted cylindrical bell jar made with stainless steel 304L. They maximum size of the job to be vacuum processed is 2000mm ID x 5000mm height. The bell Jar system may be made in three sections with bottom and middle sections each of 2000mm height and the top section with dished end. The maximum weight of the job is 200 kg and the maximum operating temperature is 600°C with temperature uniformity of $\pm 20^{\circ}\text{C}$. The system should have suitable combination of UHV grade pumps to produce an ultimate vacuum of 1×10^{-9} torr or better. Also suitable mechanical pump should be provided to generate a guard vacuum of better than 1×10^{-2} torr. The complete system should be leak tested using helium leak detector upto the leak rate of 2×10^{-10} torr. Incoly sheathed tubular heaters arranged in a serpentine fashion are to be provided on the each chamber separately. Three temperature programmer controllers should be provided for each chamber separately to control and measure the temperature independently. Programmable logic controller should be provided for semi automation of the vacuum pumping system and to achieve various safety interlocks provided in the system.

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