

DEPARTMENT OF ELECTRICAL ENGINEERING
INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY,
SHIBPUR, HOWRAH-711 103.

No. 220/2021/EE-3/21(PS)

Dated: 11/08/2021

From : The Head of the Department,
Electrical Engineering,
IEST, Shibpur, Howrah-711 103

To : Enlisted vendors of the institute and other interested parties/ For Website Tender.

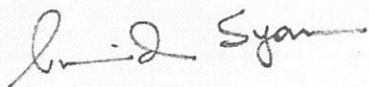
Dear Sir(s),

Sealed quotations are invited for supply of the following item(s) within **15 days** from the date of publication of this advertisement in the website. The quotation should include the 5% GST only as per institute rule, delivery charges, entry tax if any, etc. to The Head, Department of Electrical Engineering, Indian Institute of Engineering Science and Technology, Shibpur and should mention a firm delivery period. Preferences will be given to the suppliers who can supply ex-stock.

Any clarification regarding specification only can be obtained by sending e-mail to ps@ee.iests.ac.in within 10 days after the publication of the advertisement in the website of the IEST, Shibpur.

The vendors, who are not enlisted in the Institute register, should submit the copies of their valid Trade License, GST registration, PAN, latest Income Tax / Sales Tax Statement /Return, SSI/MSME certificate, if any etc. and any other commercial credentials. The institute will provide concessional GST rate certificate with the purchase order and will pay 5% GST only.

Yours faithfully,



Please put your digital/scanned signature
Signature of the indenting Officer/
Concerned Faculty Member



Prof. & Head of EE Dept.
IEST, Shibpur, Howrah – 711 103

List of Items and the specifications:

As given in Annexure-1

Warranty requirement: 1 year minimum for any manufacturing defect.



Dr. Konika Das (Bhattacharya)
Professor & Head
Electrical Engineering Deptt.
Indian Institute of Engineering Science
and Technology, Shibpur

Annexure-1

Inductor (a lot) for Industrial Electronics Research Laboratory (IERL), EE Department, IEST Shibpur

Item-1: Two numbers of identical DC inductors for indoor laboratory applications (room temperature 40 degree C) are required. Each inductor should be natural-cooled, with value of 20 mH minimum with current ratings of 20A DC, 22A peak comprising of a 20 kHz ripple current component of 2A rms. There should be a mechanism to adjust air-gap within a range of 2.5 mm in the magnetic path. Insulation should be class F or H, as applicable. Each inductor should be wrapped (shielded) by the vendor with thin aluminium sheets which will be eventually equipment-earthed by the customer to reduce EMI-related problems. (These inductors will be eventually housed by the customer inside a Z-source inverter.) A clamp structure is to be built by the vendor for each inductor to mount each inductor on a sheet steel base frame of the customer. Before acceptance, each inductor will be tested for its inductance value at the said current and for temperature rise. Insulation level should be 2 kV at least.

Item-2: Six numbers of identical AC inductors for indoor laboratory applications (room temperature 40 degree C) are required. Each inductor should be natural-cooled, with value of 20 mH minimum with current ratings of 5A AC , 50 Hz with a 20 kHz ripple current component of 0.5A peak value. There should be a mechanism to adjust air-gap within a range of 2.5 mm in the magnetic path. Insulation should be class F or H, as applicable. Each inductor should be wrapped (shielded) by the vendor with thin aluminium sheets which will be eventually equipment-earthed by the customer to reduce EMI-related problems. A clamp structure is to be built by the vendor for each inductor to mount each inductor on a sheet steel base frame of the customer. Before acceptance, each inductor will be tested for its inductance value at the said current and for temperature rise. Insulation level should be 2 kV at least.

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