

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

No. 171/2020/EE-3/21(KM-PEL)

Dated: 28/02/2020

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

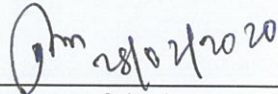
To : Enlisted vendors of the institute and other interested parties/ For Website Tender.

Dear Sir(s),

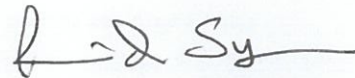
Sealed quotations are invited for supply of the following item(s) within 09/03/2020. The quotation should include the taxes as per rule, delivery charges, entry tax if any, etc. to Indian Institute of Engineering Science and Technology, Shibpur and should mention a firm delivery period. Preferences will be given to the suppliers who can supply ex-stock.

The vendors, who are not enlisted in the Institute register, should submit the copies of their valid Trade License, PAN, latest Income Tax / Sales Tax Statement /Return, SSI/MSME certificate, GST certificate if any etc. and any other commercial credentials.

Yours faithfully,



Signature of the indenting Officer/
Concerned Faculty Member



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



Prasid Syam
Professor & Head
Electrical Engineering Dept.
Indian Institute of Engineering Science
and Technology, Shibpur
Howrah-711 103

List of Items:

Required for Power Electronics laboratory, IEST Shibpur:

Wire-wound resistors (a lot)

Wire wound resistors are required of the following specifications:

(i) 560 ohms \pm 5%, 125W – 4 numbers tentative*

(a) Each wire-wound resistor, as mentioned above, should be fixed tubular, hollow type suitable for mounting around steel studs as per drawing given below in Fig. 1.

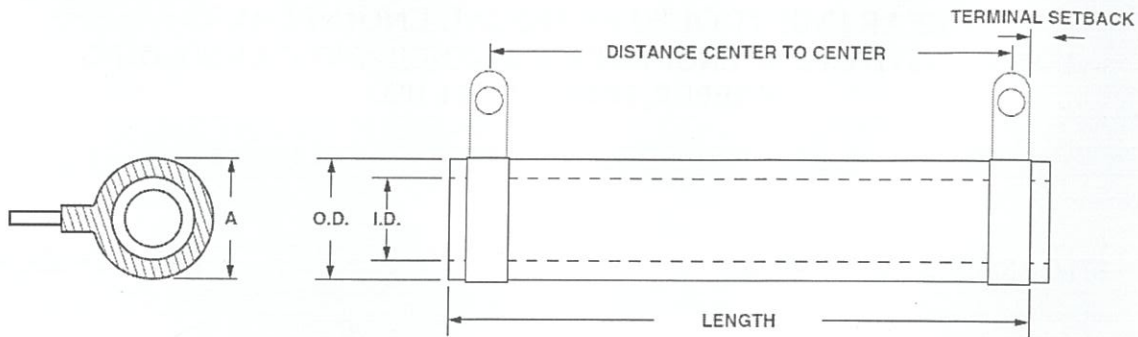


Fig. 1: Front view and side view of required wire-wound resistor with dimensions

- (b) Length (as shown in Fig. 1) should be 6 inches or more but not more than 6.25 inches
- (c) I.D. (as shown in Fig. 1) should be $\frac{1}{4}$ inches or slightly more
- (d) O.D. (as shown in Fig. 1) should be 1 inch or slightly more (not more than 1.5 inches)

(ii) 1120 ohms $\pm 5\%$, 60W – 4 numbers tentative*

- (a) Each wire-wound resistor, as mentioned above, should be fixed tubular, hollow type suitable for mounting around steel studs as per drawing given below in Fig. 1.
- (b) Length (as shown in Fig. 1) should be 4 inches or more but not more than 4.5 inches
- (c) I.D. (as shown in Fig. 1) should be $\frac{1}{4}$ inches or slightly more
- (d) O.D. (as shown in Fig. 1) should be 1 inch or slightly more (not more than 1.5 inches)

(iii) 2240 ohms $\pm 5\%$, 30W – 4 numbers tentative*

- (a) Each wire-wound resistor, as mentioned above, should be fixed tubular, hollow type suitable for mounting around steel studs as per drawing given below in Fig. 1.
- (b) Length (as shown in Fig. 1) should be 2.5 inches or more but not more than 3 inches
- (c) I.D. (as shown in Fig. 1) should be $\frac{1}{4}$ inches or slightly more
- (d) O.D. (as shown in Fig. 1) should be $\frac{5}{8}$ inch or slightly more but less than 1 inches

For each of the above resistors, arrangements must be there for soldering/screwing with external copper wires. Should be suitable for 1 kV insulation level (dielectric voltage), should be suitable for natural cooling, should have high stability of resistance value at high temperatures. Resistors will be finally wall mounted by customer with natural cooling. Heating element should be made up of Copper-Nickel alloy or Nickel-chrome alloy with as less inductive effect as possible. Insulation resistance should be at least 1 Meg-ohm.

***Notes:**

- (i) Final quantity of each type will be decided as per funds available. **Quotations should be given on a per unit basis.**
- (ii) While delivery, customer will test for the resistor value, Megger, High Voltage insulation test and temperature rise before final acceptance.