



INDIAN INSTITUTE OF TECHNOLOGY KANPUR
DEPARTMENT OF CIVIL ENGINEERING

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12 December 2013

Enquiry no. CE/STRLAB/2013-14/Dec/01

We would like to purchase springs made of shape memory alloy (SMA) for experimental research work on use of SMA spring for vibration damping of small scale building models. Following are the general technical specifications required for the SMA springs:

Sl. No.	Technical Specifications	
1	Spring stiffness	300 N/m
2	Spring wire diameter	2.0 mm
3	Spring Diameter (outer/inner)	24.0/20.0 mm
4	Pitch	10.0 mm
5	Spring coil length	90.0 mm
6	Threaded end length (dia : 3 mm on both ends)	30.0 mm
7	Modulus of elasticity (Martensite)	40 GPa
8	Spring material	NiTinol (Shape Memory Alloy)
9	No. of turns in the spring coil	09

Note: The spring should be able to sustain both tension and compression for cyclic loading. Further, the ends of the spring should have provision of threads of 3 mm diameter (as shown in the enclosed drawing) for proper connection of springs to the model. The SMA springs will be used in ambient laboratory temperature (0° to 40° C) condition.

Please send your offer for the SMA Springs (Qty.: 08) with above mentioned technical specifications (in a sealed envelope) mentioning the following:

1. Cost of the item with technical specifications in detail
2. Warranty period
3. Delivery time
4. Educational discount applicable considering end use for research and teaching
5. Payment terms (please mention the cost on CIP New Delhi basis)
6. Proprietary Certificate, if applicable
7. Any other relevant details

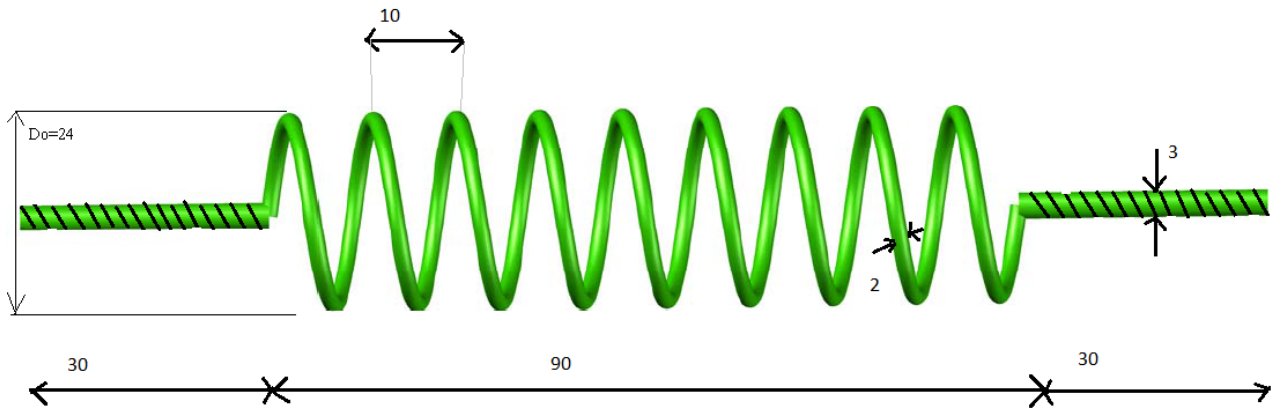
An early reply latest by 23 December 2013 will be highly appreciated.

Thanking you...

Sincerely

(Sudib K. Mishra)

Enclosure: as mentioned above



ALL DIMENSIONS ARE IN mm