

TECHNICAL SPECIFICATIONS FOR CABLE/CONDUCTOR MEASURING MACHINE :-

01. SCOPE :-

The Cable/Conductor machine should be capable to measure all the cable/conductors having diameter from 7.5mm to 20mm easily. The cable/conductor machine should be fully automatic.

Moreover, Cable/Conductor length measuring machine will be comprising of :-

A)	<ul style="list-style-type: none"> ➤ Column type “take up stand” of height 1000 mm suitable to take drum of flange diameter 2000 mm and transverse 1100 mm ➤ Load Bearing Capacity 2000 Kg. ➤ Screw of Dia. 50 mm ➤ Clutch of Dia. 400 mm ➤ 5 HP Squirrel cage induction motor with gear box to drive drum ➤ 1.5 HP Squirrel cage induction motor with gear box to drive drum or geared motor to lift/lower the drum.
B)	<ul style="list-style-type: none"> ➤ Column type “Pay off stand” of height 1000 mm suitable. ➤ Load bearing capacity 2000 Kg ➤ Screw of Dia. 50 mm ➤ Clutch of Dia. 400 mm. ➤ 1.5 HP Squirrel Cage AC Induction Motor with gear box geared motor to lift/lower the drum
C)	In between take up and pay off stand there will be length measuring unit comprising of counter meter and vertical rollers, as well as horizontal rollers, through which cable/conductor will pass. The measuring unit should be equipped with mechanical as well as electronic measuring system.
D)	The Measuring system should be capable to wind cable/Conductor of various sizes under magnetic tension control mechanism with liner speed of maximum 40mtr/min.

Tenderers may offer conductor/cable measuring machine of latest version if any, with suitable drawing.

2.0 The tenderer has to submit the electrical & mechanical detailed drawings of whole measuring system along with their bid. The schematic Drawing of the same also to be submitted.

3.0 The successful bidder has to submit the calibration certificate of whole measuring system from Govt. approved NABL Lab.

4.0. GUARANTEE:-

The Measuring instrument shall be guaranteed for the period of 18 months from the date of commissioning .The instrument found defective within the above guarantee period shall be replaced/ repaired by the supplier free of cost within 15 days of receipt of intimation. If the defective instruments are not replaced/repaired within

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the specified period above, the UGVCL shall recover an equivalent amount plus 10% supervision charges from any of the bills of the supplier.

4. PACKING :

4.1 The instrument shall be suitable packed in order to avoid damage or disturbance during transit or handling. Each instrument may be suitably packed in the first instance to prevent ingress of moistures and dust and then placed in a cushioned carton of a suitable material to prevent damage due to shocks during transit.

The lid of the carton may be suitable sealed. A suitable number of sealed cartons may be packed in a case adequate strength with extra cushioning, if considered necessary. The cases may then be properly sealed against accidental opening in transit. The packing cases may be marked to indicate the fragile nature of the contents.

4.2 The following information shall be furnished with the consignment :

Name of consignee

Details of consignment

Destination

Total weight of consignment

Sign showing upper/lower side of crate

Sign showing fragility of the material

Handling and unpacking instructions

Bill of Materials indicating contents of each package and spare materials.

5. DEMONSTRATION :

The successful bidder has to demonstrate the measuring system at their works prior to dispatch. After successful & satisfactory demonstration & function of measuring system UGVCL will issue the dispatch clearance. The successful bidder has to demonstrate the operation of instrument within three months from the date of order.

8. TRAINING OF ENGINEERS :

The successful supplier contractor shall train Engineers of the purchaser free of charge at their works for familiarization of design, application, operation and maintenance of the instrument.

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