

**PRASAR BHARATI
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SPECIFICATION Code. STM 13/2005-06
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SPECIFICATION FOR DVCPRO DIGITAL RECORDING FORMAT TAPES

1. SCOPE

The required performance characteristics of DVCPRO Digital Recording Format Tapes (Digital Cassette Tapes) to be used in TV Studios for broadcasting and programme production purposes are laid down in this specification.

2. FEATURES REQUIRED

- a) The tape should be 6.35mm wide metal particle digital tape.
- b) The tape should have high output and lower noise ultra-fine metal magnetic particles for delivering superb picture, sound quality low error rate, high level of reliability and high frequency characteristics needed in high density digital recording.
- c) It should have ultra smooth magnetic layer surface to **eliminate spacing loss & micro dropout** and to achieve low error rate and higher C/N ratio.
- d) It should have excellent durability with repeated usage & still playback and even after long storage.
- e) It should have high precision dust proof cassette shell with a static electricity free lid and a robust mechanism for stable tape recording and playback, as well as high durability. It should have reel lock mechanism for preventing tape sagging and erase prevention mechanism.
- f) Tapes having the maximum recording time such as **33 minutes (Medium), 66 minutes (Medium), 94 minutes (Large) and 126 minutes (Large) as tendered** are required to be offered.

3. TECHNICAL SPECIFICATIONS

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|----|-----------------------|---|--------------------|
| a) | Format | : | DVCPRO |
| b) | Magnetic layer | : | Metal particles |
| c) | Tape width | : | 6.35 mm |
| e) | Tape thickness | : | 8.5 μ m |
| f) | Yield strength | : | ≥ 5 N |
| g) | Breaking Tensile | : | ≥ 10 N |
| h) | Residual Elongation | : | $\leq 0.2\%$ |
| i) | Coercivity force (Hc) | : | 183 KA/m (2300 Oe) |

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| | | | |
|----|--------------------------|---|---------------------------------------|
| j) | Retentivity (Br) | : | 370 mT (3700 Gauss) |
| k) | Squareness | : | 0.86 |
| l) | Video RF output | : | 0 dB (difference with reference tape) |
| m) | Video C/N | : | 0 dB (difference with reference tape) |
| n) | Audio Sensitivity | : | 0 dB (difference with reference tape) |
| n) | Audio Frequency Response | : | 0 dB (difference with reference tape) |

4. COMPLIANCE

A point by point compliance statement in respect of all the parameters laid down in the technical features and specifications from the manufacturer is to be enclosed with the offer. Any deviation from the specification should also be highlighted separately. Offers without compliance statement are likely to be rejected.

5. DOCUMENTATION

The equipment should be supplied along with technical literature for operation and maintenance. One copy of the above material should be supplied along with the tender.

6. GUARANTEE

The equipment should be guaranteed for one year from the date of supply for trouble free operation. Any failure within the guarantee period should be replenished free of cost.

7. ADVANCE SAMPLE

The firms are required to submit advance samples for technical evaluation on non returnable basis along with the tender. Offers without the advance samples are likely to be rejected.

8. INSPECTION

The pre-shipment inspection of the stores will be carried out at Delhi.

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4/12/2008