**Action Research Project Report**

**On**

**IS 10434 (Part 2) : 1996**

**GUIDELINES FOR INSTALLATION, MAINTENANCE**

**AND OBSERVATION OF DEFORMATION MEASURING**

**DEVICES IN CONCRETE AND MASONRY DAMS**

**PART 2 VIBRATING WIRE TYPE JOINT METER**

Sectional Committee No.: WRD 16

Title: (Hydraulic Structures Instrumentation Sectional Committee)

1. **OBJECTIVE OF THE STANDARD**

This Indian Standard (Part 2) was adopted by the Bureau of Indian Standards, after the draft finalized by the Hydraulic Structures Instrumentation Sectional Committee had been approved by the River Valley Division Council.

To minimize-cracking, large straight gravity and arch gravity dams are made in blocks, separated from each other by transverse and longitudinal contraction joints, To restore the dam to its monolithic state for integrated behaviour, contraction joints are grouted with cement grout. Grouting of joints is done when the joints have opened to their maximum. Measurement of joints movement during grouting operation will indicate the quantity of grout to be pumped into the joints.

1. **SCOPE OF THE STANDARD**

This standard (Part 2) covers the details of installation, maintenance and observations of vibrating wire type jointmeters of the embedded type for measurement of joint movements at the surface and in the interior of concrete and masonry dam.

1. **ACTION RESEARCH METHODOLOGY AND RESEARCH**

The objective of this review is to study the standard and the latest developments, if any, so that an informed decision may be taken out of the 5 possible options that may chosen regarding the standard -

1. Reaffirm
2. Reaffirm with amendment
3. Reaffirm and Revise
4. Reaffirm and Archive
5. Withdraw
6. **NATIONAL AND INTERNATIONAL REFERENCES**
* IS 10434 (Part 1) : 2003 - Installation, maintenance and observation of deformation measuring devices in concrete and masonry dams - Guidelines: Part 1 resistance type jointmeters (first revision).
* IS 6524 : 1972 - Code of practice for installation and observation of instruments for temperature measurements inside dams : resistance type thermometers.
1. **ACTION RESEARCH OUTPUT**

Pursuant to the above, the Standard still seems to be relevant and the expert members may be requested to give their inputs. It may be decided to reaffirm the standard without any change from the date of it being due, for a further period of five years. In case of any further developments, the committee may choose to take up the amendment / revision of the standard.

**Mr. Vaibhav Yadav**

Scientist-B

Water Resources Department