

(PREVIEW)

IS 14476 (Part 1) : 1998

Indian Standard

**TEST PUMPING OF WATER WELLS –
CODE OF PRACTICE**

PART 1 GENERAL

1 SCOPE

This standard (Part 1) lays down the general aspects to be kept in mind during the planning and execution of a pumping test.

PART 2 HYDROGEOLOGICAL CONSIDERATIONS

1 SCOPE

1.1 This standard (Part 2) lays down the hydrogeological aspects to be kept in mind at or around the proposed site for a pumping test.

PART 3 PRETEST PLANNING

Section 1 General Aspects

1 SCOPE

1.1 This standard lays down guidelines for planning the aspects of site facilities, organization and utilities prior to a pumping test.

PART 3 PRETEST PLANNING

Section 2 Test Design

1 SCOPE

1.1 This standard provides guidance on aspects that should be kept in mind while designing a pumping test.

PART 3 PRETEST PLANNING

Section 3 Observation Wells

1 SCOPE

This standard (Part 3/Sec 3) lays down the features to be kept in mind during drilling of observation wells for a pumping test.

PART 3 PRETEST PLANNING

Section 4 Test Wells

1 SCOPE

This standard (Part 3/Sec 4) lays down the features to be kept in mind during designing of a test well and making measurements therein.

PART 4 PRETEST OBSERVATIONS

1 SCOPE

1.1 This standard (Part 4) lays down guidelines for hydrological, hydrogeological and meteorological observations to be made before carrying out a pumping test. These include observation of surface water, ground water and meteorological parameters as well as abstraction and discharge.

PART 5 PUMPING TEST

1 SCOPE

This standard (Part 5) lays down the procedure to be followed during various stages of the pumping test.

PART 6 SPECIAL TESTS

1 SCOPE

This standard (Part 6) lays down guidelines for conducting slug tests and packer tests.

PART 7 POST TEST OBSERVATIONS AND PRESENTATION OF DATA

1 SCOPE

1.1 This standard (Part 7) lays down guidelines for post-test observations and presentation of data of a pumping test.

PART 8 WATER LEVEL AND DISCHARGE MEASURING DEVICES

1 SCOPE

1.1 This standard (Part 8) lays down guidelines for water level and discharge measuring devices to be used for test pumping of water wells.

1.2 This standard also describes methods of measurement and gives practical guidance in the use of conventional water level recorders. These operate by the movement of a float within the recorders. These operate by the movement of a float within the borehole or stilling well of a weir tank.

2 REFERENCES

The following standards contain provisions which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<i>IS No.</i>	<i>Title</i>
2952 (Part 1) : 1964	Recommendations for methods of measurement of liquid flow by means of orifice plates and nozzles: Part 1 Incompressible fluids
9108 : 1979	Liquid flow measurement in open channels using thin plate weirs

PART 9 WELL DEVELOPMENT

1 SCOPE

This standard (Part 9) lays down guidelines for well development.