

Indian Standard

QUANTITATIVE CLASSIFICATION SYSTEM OF ROCK MASS – GUIDELINES

PART 4 GEOLOGICAL STRENGTH INDEX (GSI)

1 SCOPE

This standard (Part 4) covers the procedure for obtaining the geological strength index (GSI) and to estimate the rock strength parameters required for engineering analysis of underground structures and other structures on rock.

2 REFERENCES

The standards given below contain provisions, which through reference in this text, constitutes 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 given below:

<i>IS No.</i>	<i>Title</i>
4880 (Part 6) : 1971	Code of practice for design of tunnels conveying water: Part 6 Tunnel supports
7317: 1993	Code of practice for uniaxial jacking test for deformation modulus of rock (<i>first revision</i>)
9143 : 1979	Method of determination of unconfined compressive strength of rock materials
13365	Quantitative classification systems of rock mass — Guidelines
(Part 1) : 1998	Rock mass rating (RMR) for predicting engineering properties
(Part 2): 1992	Rock mass quality for prediction of support pressure in underground openings