

## **B. Outline of Apparatus**

### **1. Automatic Level**



Source :

([http://img.diytrade.com/cdimg/636179/4720826/0/1195520062/32X\\_automatic\\_level.jpg](http://img.diytrade.com/cdimg/636179/4720826/0/1195520062/32X_automatic_level.jpg) )

A Professional Leveling Tool used by Contractors, Builders, Land Surveying Professionals, or the Engineer who demands accurate leveling every time ( Engineering Supply, 2014).

### **2. Adjustable Leg Tripod**

Source :

([http://www.vsa-services-india.com/images/products/accessories/leg\\_e/L.jpg](http://www.vsa-services-india.com/images/products/accessories/leg_e/L.jpg) )

Adjustable-leg tripods are easy to set up on ground because each leg can be adjusted to exactly the height needed to find level, even on a steep slope (Johnson Level, 2010).



### **3. Optical Plummet**



Source :

([http://www.hayesinstrument.com/accs\\_TopconTribrachOP.jpg](http://www.hayesinstrument.com/accs_TopconTribrachOP.jpg) )

A device on some transits and theodolites; used to center the instrument over a point, in place of a plumb bob, which moves in a strong wind. (McGraw-Hill, 2008).

# Site Surveying And Levelling

**Mike Jess**



## Site Surveying And Levelling:

Site Surveying and Levelling John Clancy, 2013-03-07 This popular and useful text has been completely revised and updated so that it forms an indispensable handbook for any student of surveying. An additional chapter on modern developments is included and the text has also been extended to cover ordnance survey calculation of areas, computation of true horizontal length, measurement of vertical angles, Code of Measuring Practice, curve ranging and calculations of volumes for earthworks.

Site Surveying and Levelling John Clancy (Dip. Arch.), 1981      **Site Surveying and Levelling** H. Rawlinson, **Site Surveying and Levelling** John Pettet, 1981-01      **A Text-book on Surveying and Leveling** H. Threlfall, 1920      **Site Surveying and Levelling** H. Rawlinson, 1982      **Site Surveying and Levelling** John Pettet, 1981      *Surveying and Levelling for Builders* Noel Lees Reece, 1950      **Site Surveying and Levelling 2** Walter S. Whyte, R. E. Paul, 1982      **A System of Land Surveying and Levelling** Peter Fleming, 1815      **A system of Land Surveying and Levelling; wherein is demonstrated the theory, with numerous practical examples, as applied to all operations, either relative to the land surveyor, or civil and military engineer. (Part first.).** Peter Fleming (Civil engineer), 1815      **A Practical Treatise on the Science of Land and Engineering Surveying, Levelling, Estimating Quantities, &c** Henry S. Merrett, 1863

*The Ceylon Blue Book* Ceylon, 1922      Civil Engineering: Supervision and Management A.C. Twort, J.G. Rees, 2012-12-06 This book covers methods adopted for undertaking the design and construction of civil engineering projects. The options for separate design and construction are compared with design and build projects, construction management and management contracting. The salient differences are shown between the various conditions of contract used. The roles of the engineer, employer's project manager or his representative under different forms of contract are compared. Requirements for the production of contract documents, specifications, tendering procedures and choice of contractor are set out. The engineer's powers and the duties of his resident engineer on the site of construction are considered in detail. Records filing systems, programme and progress charts used by the resident engineer are illustrated and advice is given on the handling of safety problems and difficult situations on site. Problems of measurement and billing of quantities according to the civil engineering standard method are described. Correct procedures for setting rates for varied work, payment for method-related items and handling claims for unforeseen conditions under ICE Clause 12 are given. Difficulties with delay claims and situations where the contractor submits quotations before undertaking varied work are discussed. The approach is essentially practical throughout and covers many actual problems met on site, including measures that are advisable in relation to site surveys and investigations, construction of earthworks and pipelines and the production and placing of concrete.      **Aid to Survey Practice for Reference in Surveying, Levelling, and Setting Out** Lewis D'Aguilar Jackson, 1880      A catalogue of works in all departments of English literature Longmans, Green and Co, 1848      *Field Archaeology* Peter Drewett, 2011-02-09 Peter Drewett's comprehensive survey explores every stage of the dig process from the core work of discovery and excavation to

the final product the published archaeological report      **A catalogue of works in all departments of English Literature, classified; with a general alphabetical index. The full titles, sizes, prices and dates of the last editions are given. Second edition, corrected to January 1st, 1848 ,1848**      **A Treatise on the Principal Mathematical Instruments Employed in Surveying, Levelling, and Astronomy** Frederick Walter Simms,1844      *A treatise on the principal mathematical instruments employed in surveying, levelling, and astronomy ... Fourth edition* Frederick Walter Simms,1838

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