

the magnetic north. Our compasses were, therefore, corrected to true north, using a declination of  $7^{\circ}$  E. This declination is an average of declinations ascertained by surveyors of several oil companies who have been, and in some instances still are, working in the region.

A French barometer compensated for temperature was used for taking altitudes over sea level.

We carried three watches, which were checked with each other, and used in combination with the barometer when observing altitudes.

All measurements were done in the metric system. For the convenience of those not conversant with this system, a table giving the equivalent in feet is found in Appendix X.

In measuring buildings a 25-meter steel tape was employed, and larger distances were paced. All plans of ruins were drawn to scale on the spot. Long descriptions of arrangements and dimensions of buildings are tiresome, and do not give a picture of their plan to the reader. Those who wish to study the drawings in more detail can easily ascertain the dimensions with the help of a graduated ruler.

Pedometers are not reliable, so when pacing, every fifth step was punched on a tally.

The smaller impedimenta used in this section of the work included drawing boards, rulers, protractors, water colours, and coloured crayons.

Next came the choice of photographic equipment, which should not be too bulky. For rough work a No. 1-A Autographic Kodak, Jr., with roll film and anastigmat F 7.7 130 mm. lens was used, to this we also had a portrait attachment. This small camera gave very good results, though roll film is always difficult in moist tropical countries, as it is apt to stick to the covering paper when rolled tight.

For more special work, such as photographing monuments and buildings, we used a Graphix camera with a Kodak anastigmat lens, F .4.5,  $1\frac{1}{2}$  inches, size  $3\frac{1}{4} \times 5\frac{1}{2}$  (post card size). Very good results were produced with this machine. The speed of the camera was of no account; all the exposures save two were made on time, with the use of a tripod. It was of great value to be able to focus the camera exactly with the help of the ground glass, and this camera is not so heavy and bulky as a Graflex. Pack film was used exclusively with this machine. The individual films in the pack lie loose between sheets of black paper, so that the tropical moisture is not so apt to damage them as with roll film.