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ORGANIZATION OF NATIONAL CARTHOGRAPHIC
DEPARTMENTS

Paper submitted by the Government of the Republic of Tunisia

M66-1007

ORGANIZATION OF NATIONAL CARTOGRAPHIC
DEPARTMENTS^{1/}

While continuing to carry out normal work resulting from the task organically allotted to it, the Tunisian Survey Department has been interested in cartographic activities since 1960.

Before, because all such activities were the reserved province of the French Army Geographic Department which, since 1960, has become the National Geographical Institute, we were completely dependent upon it in this field.

Political independence opened new horizons for us and offered us new prospects.

Thus, by the March 14th 1961 Convention, the Institute undertook to provide Tunisia, as and when requested to do so, with data for the reproduction of ordnance survey maps.

From that date, the problem of taking over was posed, particularly by the modernisation of photomechanical, zincographic, photogrammetric compilation and rectification workshops, and also by the question of professional training and of sending to refresher courses abroad many members of staff working in fields closely connected with cartography.

Workshop Modernization.

(a) Zincography Workshop

Its basic installations prior to 1956 were :

- 1 hand turnable and 1 mechanical turnable
- 2 hand presses
- 2 grainers and one laboratory with arc lamp

The additions made to the installations are at present as follows:-

^{1/} Translation submitted by the Tunisian Government.

- 2 guillotines, -
- 3 grainers (one hanging)
- 1 monocolour Man offset machine (format 1035 x 1270)
- 1 two-tone Harris offset machine (format 85 x 98)
- 3 Heidelberg typo machines (format 38 x 52)
- 1 Heidelberg typo machine (format 26 x 38)
- 1 Proving machine (Dcurdouille I metre x 1.45 metres)
- 2 laboratories with arc lamp, turnable and Klimsch frame
- 2 staplers.

(b) Photomechanical Workshop

Available equipment before 1956 was made up as follows:-

- Heliography 1 printer 7 lamps (scrapped)
- 1 printer 14 lamps "
- 1 developing box "

Processing and Enlargement Apparatus: Vertical (Noxa)
18 x 24 (scrapped)

- Contact Printers : 90x 115
- 50 x 60 (scrapped)
- 45 x 55
- 35 x 45

Enlarger : 9 x 12

- Duplicating chamber : 40 x 40 (scrapped)
- Square camera for professionals (Linhof) 13 x 18
- 1 rotary dryer (scrapped)

Since, this equipment has continuously been added to; it now consists of a set of the most modern machines:-

- Heliography : 1 printer 45 amps.)
- 1 printer 25 amps.) "Metem"

Processing and projector apparatus - Klimsch Autohorika.

- 1 x 1 metres
- 1 Klimsch Vaku-printer 63 x 63
- 1 Durst enlarger 24 x 36
- 1 André Sebrie microfilm
- 1 Hunter processing camera 60 x 90 (scrapped)
- 2 calibrators, 1,30 metres long
- 1 drying and humidifying cabin
- 1 Klimsh drying cupboard
- 1 Sprint dryer, 1 metre wide
- 1 Klimsch densitometre
- 2 Foca Zeiss cameras, 24 x 36 millimetres
- 1 Bouzard AVL Vertical processing camera, 50 x 60
- 1 Vacuum frame 120 x 150
- 1 Contact vacuum printer 80 x 80
- 1 Contact vacuum printer 63 x 63
- 1 Rotary glazing machine

(c) Photogrammetry workshop

Before 1956, this workshop contained only the following equipment :

- 2 Poivilliers B
- 1 B type photogoniometre

Since, the Survey Department has acquired :

- 1 Zeiss C 8 stereoplanigraph with electronic co-ordinates recorder
- 1 Wild A 8 plotter
- 1 Wild B 8 plotter

Besides, as part of the workshop modernization programme, air conditioning has been installed.

(d) Rectification Workshop

The 1962-63 aerial photographic coverage of the whole of the territory as well as that effected in 1964, for Cadastral Survey purposes, have led the Department in question, for a rational utilization of its photo library, to create a Rectification and Aerial Photo Proofing Workshop.

This workshop has the following equipment :

- 1 Zeiss SEG V rectifier
- 1 Electronic printer with "Photronic" transistors
- 1 Electronic contact printer "log Etronic Europ C P 45 model"
- 2 Zeiss (K G 30) printers for aerial photographs
- 1 Meteor glazing and drying apparatus
- 1 "Moll" plastic laboratory
- 1 reducer - a precision machine for reducing Zeiss aerial photographs

Cartographic Section

The creation of this section, which dates from 1960, was rendered necessary by the comprehensive programme for starting map editing and printing, quite independently of the task of bringing up to date town, administrative and other road maps. This young section has since seen an increase in staff and in the necessary equipment (Scribing - light tables etc...).

The extent of the future activities of this section has induced the Head of the Tunisian Survey Department to suggest and encourage the setting up of a Cartography Circle which would include, beside the above mentioned Drawing Section, a Section for Map Revision.