

## ***TELEPHONY MAGAZINE***

August 13, 1921

### **Switchboard Shipped to Philippine Island Companies.**

Recent shipments of telephone switchboards to the Philippines indicate that the people of our island possessions are right up to date when it comes to telephone service and equipment.

Two of the most notable recent consignments are magneto multiple switchboards of the type shown by the accompanying illustration and purchased by the Iloilo Telephone & Telegraph Co., Iloilo, and the Cebu Telephone Co., Cebu.

The board for the former company will be installed in Iloilo and replaces a three position 450-line transfer board.

The new board is a four-position magneto multiple equipped for the immediate operation of 720 lines and has an ultimate capacity for 1,080 lines. The drop signals are of the electrically-restored type, manufactured exclusively by the Leich Electric Co., Genoa, Ill., claimed to make the operation of the board almost identical with that of common battery boards. Sixty-four cord pair equipments were provided, 16 in each position and were of standard high efficiency type, equipped with electrically-restored clear-out signals, repeattrically-restored clear-out signals, etc.

The equipment for the Cebu Telephone Co. also consisted of a four-position magneto multiple board with 640 lines installed for immediate operation and provide with the same type of apparatus as above described. With this installation, there was furnished a set of 55 cells of 80-ampere hour capacity storage batteries, a motor-generator set for charging them and a special charging rheostat, making it possible to charge the battery as a whole, or in

groups of 5 cells, at rates of current varying from 1 to 15 amperes.

Only five cells of the storage battery system will be utilized to supply current for the operation of the switchboard, the remaining portion of the battery is to furnish current for lighting the exchange, operating fan motors, etc.

The switchboards are of the unit type and were completely assembled when shipment was made. All that will be required to place the boards in operation will be the connection of the line cables to the distributing frames and attaching of the battery leads to the proper terminals.

Due to the severe climatic conditions which switchboards in the tropics must withstand, nothing but micarta and bakelite insulation were used in the various parts and all coils were impregnated with an insulating varnish by a vacuum process and thoroughly dried in electric ovens.

Brass was used for all metal work in place of iron wherever possible and where iron was required, it was given special treatment to prevent rusting.

Complete arrester and distributing racks of the fuse and carbon block type were supplied with both boards.

These two installations were planned and furnished complete by the Leich Electric Co. of Genoa, Ill.

