LUGAO

INSTRUCTION MANUAL



OPERATION AND

MAINTENANCE MANUAL

FOR DISTRIBUTION TRANSFORMERS

1 Introduction

The transformer requires less care compared with other electrical equipment. The degree of maintenance and necessary inspection for its operation depends on its capacity, on the importance within electrical system, the place of installation within the system, on the weather conditions, and the general operating conditions.

In this part of the manual the operating instructions and maintenance is supplied. Our intention is to provide the necessary assistance to the maintenance personnel to facilitate a periodic inspection of the transformer and to indicate the steps that they should follow to effect a more detailed examination of the active part in case that is required.

2 Transportation

2.1 The Transportation method mostly have road 、 railway and on the sea transport. The transformers is filled by the nitrogen, and the parts、disassembly parts、leave factory documents else installed with the transformers.

2.2 Transformers suspend

When transformers have packing box ,the suspend must use 5t forklift from the bottom two side of packing box extend enter. If from the bottom middle entering, must stagger the expand oil stuff under the tank and strengthen plate on the base. When transformers have not the packing box ,must use the four lift draw which on the transformers upper . When lifting the parts、disassembly parts, must according to correlation lift mark .When lifting, the nip angle of rope and vertical line not exceeding 30°.

2.3 The gradient of transformers not exceeding 15at the transport and avoid accept strike

3. Inspection and accept

After received transformers, consumer should immediately check the under item:

3.1 According to the nameplate ,check the product if the type and specification same with the contract .

3.2 Check the explanation book、product eligibility certification、fixing drawing、nameplate sign , if they are full .

3.3 Check the transformer reality ,affirm product and part if have mangled or not , if porcelain tube is full. Check the airproof part if have the leakage .

4. Preventive maintenance program

Write down the readings from the meters or gauges that are generally installed. These readings will be very useful. If the readings are very different from the ones obtained in normal conditions, it is necessary to perform a careful revision.

In addition, pay close attention to any abnormal signs such as noise, color change or smells.

- **Transformer's temperature**

The temperature of the transformer is directly related to the life span of the insulating materials; therefore, it is necessary to pay close attention.