

Chapter 9

Handing Over the Plant

The final step in the installation process is the handing over of the plant to the owners or the manager and community representatives. The installers must demonstrate to the recipients that the installation has been completed satisfactorily in accordance with the specifications provided; that the plant is producing the rated power and working satisfactorily in all respects; and that it is likely to perform satisfactorily in all respects in future. In addition, both the installer and the recipient must sign and keep copies of some formal documents related to the satisfactory performance, handing over, and guarantees for the future.

9.1 Completion Certificate

The completion certificate is usually needed by the installer to get the funds released from some funding agency, e.g., a bank; whereas the guarantee(s) from the manufacturers and the installers is needed more by the owner-recipient so that he can obtain services and parts to be replaced if something goes wrong during the guarantee period. These two types of document must be written in clear and precise language to avoid any ambiguity. Annex 3 shows a sample form for a completion certificate. This form contains the information needed for handing over and taking over the plant. The manufacturer/installer must also provide to the owners all drawings, catalogues, figures, sketches, maps, a copy of the feasibility study, and a well-prepared and useful operation and maintenance manual.

9.2 Guarantees

Two or more guarantees may have to be provided by the manufacturers, installers, and suppliers of equipment, depending upon where the equipment has been acquired and by whom.

The manufacturer(s), for example, should provide guarantees for a prescribed period (e.g., one year), that the equipment will be repaired free of charge including replacement of parts if the machine or a part/unit fails within this period; except if the failure is caused by improper or careless use or handling of the equipment by the operators. Usually, a guarantee is also provided for the parts or components obtained from the market or from other manufacturers, e.g., penstock pipes, bearings, bearing housing, couplings, and belts.

Similar guarantees should be provided for the civil works (if constructed by a contractor/ installer) and the transmission and distribution lines.

A sample guarantee document is shown below. This can be improved, modified, or re-written, to accommodate all the relevant components or units. The guarantee shown is for the turbine, generator, and coupling system, but other items can be added.

Guarantee

The following equipment supplied/manufactured by is hereby guaranteed by the undersigned for a period of 12 months from the date of hand over of the MHP plant. If it breaks down or fails to perform satisfactorily and produce the rated output, the supplier/manufacture hereby undertakes to repair such parts and replace faulty parts free of cost, so that the equipment gives the rated outputs. This guarantee is void if the failure of a component is caused by improper handling or operation, carelessness, or an accident

- 1) Turbine (type);kW capacity; dia. of rotormm; bearings manufactured by (country); shaft diametermm, bearing housing(type, make, country).
- 2) Generator (type); phase; rpmwith brushes/brushless.....; with/without AVR; manufacturer's name and country.....; capacitykVA
- 3) 2 Pulleys mm dia & mm dia; shaftsmm dia. andmm dia., material; having grooves (type) key.
- 4) V belts (manufacturer and country), nominal length; x-section area mm², material

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(Signature of guarantor)

Date:

Name:

Designation:

STAMP

Organization:

Address: