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1. INFORMATION ON SOLAR WATER HEATER DESIGNATION

- 1.1. The stipulated minimum threshold percentage for local production and content of Solar Water Heater (SWH) is **70%**. The components designated are only storage tanks / geysers and solar collectors.
- 1.2. To ensure that local production and content is discharged on manufacturing activities, the following which have been designated must be included in bid invitations:

SWH Components	Stipulated Minimum Threshold
¹ Storage tanks/ geysers	70%
² Solar collectors	70%

¹Storage tank/ geyser

The storage tank is a container that stores portable water in various sizes up to 450 litres. It consists of at least an inner tank, thermal insulation and an outer cover. It also incorporates some or all of the following components; anodes, heat exchangers, temperature and pressure safety valve.

²Solar collector

A solar collector is a device that contains or incorporates an absorber and a means for transferring thermal energy from the absorber to a fluid passing through the device. Solar collectors are typically categorised in one of 2 groups, namely, flat plate collectors and evacuated tube collectors:

- A flat plate collector consists of a collector box covered with a transparent cover. This box is insulated and contains an absorber, which is typically a metal plate attached to flow tubes (risers) that is connected to a header (manifold). The absorber is coated with a thermal absorbent coating. Heat is transferred from the absorber to the fluid inside the flow tubes.
- An evacuated tube collector typically consists of several tubes mounted in parallel in a manifold. Tubes are normally manufactured of glass but could be of different material. Inside each tube is an absorber with a thermal coated layer/ fin that absorbs heat and that transfers heat to a transfer fluid. There is a vacuum between the outer cover and the absorber to act as thermal insulation.

- 1.3. In the designation, imported input raw materials (i.e. copper and aluminium) used for fabrication of SWHs are deemed as locally



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manufactured input materials. This is to encourage local manufacturers to seek the best global competitive prices for primary materials.

- 1.4. The competitive imported input materials (copper and aluminium) used in the manufacturing of SWHs will be deemed to have been sourced locally for the purposes calculating local content. These input materials (copper and aluminium) should be imported in raw material form and further fabricated in South Africa.
- 1.5 For further information, bidders and procuring state organs may contact Green Industry Sector Desk within **the dtic** at telephone 012 394 5318/1792 or email localcontent@thedtic.gov.za