

'ജലം ജീവാമൃതം'



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KERALA WATER AUTHORITY

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Kerala

PROCEEDINGS OF THE MANAGING DIRECTOR

PRESENT : Sri Venkatesapathy S. IAS

Sub:- Kerala Water Authority - Implementation of Meter Policy - Reg.

No: 4461/AE II(OP)/2020/KWA

Dated: 15.03.2021

Read:- 1) Resolution No. 11129 of the 419th meeting of KWA held on 23/02/2021.
2) Proceedings No. 4461/AE II(OP)/2020/KWA dated 26/08/2020 of the Technical Member, KWA.
2) 415th meeting of KWA held on 21/07/2020.

As per the decision taken in the 415th meeting of KWA held on 21/07/2020, a committee has been constituted vide proceedings read 2 above of the Technical Member with CE (P&O). Chief Law Officer, KWA, DCE Monitoring, SE, PHC Kollam, EE, Operations and Technical expert from FCRI, Palakkad as Committee members to formulate a strategy to address issues related to inconsistent or inaccurate water meter readings, so as to reduce the NRW.

It has been decided that the committee shall draft a water meter policy for KWA for the connection to, and management of, all water meter installation requirements applies to domestic and non domestic (including industrial and casual) connections and which will address issues related to inconsistent or inaccurate water meter readings. Accordingly draft meter policy with specification, selection, testing, installation is prepared and placed in the Technical Committee formed for this purpose on 03/11/2020. The suggestions and recommendations of the committee members were incorporated and draft meter policy placed before the Authority for approval.

The Authority in its 419th meeting held of 23/02/2021, discussed the matter in detail and



resolved to approve the draft meter policy (vide resolution 11129), which has encompassing provision for reducing NRW by assuring quality, testing and replacement of water meter in KWA. The approved meter policy is attached herewith for strict compliance.

Sd/-

Venkatesapathy S. IAS
Managing Director

To

CE(SR,CR,NR,PPD&WASCON,HRD&GL, P&O), FM&CAO,CLO, All SE's, EE's

Copy To

EE to MD,PA to AM, AE to TM, AE IT





KERALA WATER AUTHORITY

Meter Policy



Kerala Water Authority

[Selection, Testing, Installation and Replacement]

OPERATIONS

This document contains Kerala Water Authority's policy for the connection to, and management of, all water meter installation requirements applies to domestic and non domestic (including industrial and casual) connections.

The document is digitally approved. Hence signature is not needed.



Introduction

This document contains Kerala Water Authority's policy for the connection to, and management of, all water meter installation requirements applies to domestic and non domestic (including special causal connection and industrial connections) house connections.

Kerala Water Authority may change or replace any part of this Metering Policy at any time. The latest version of this Metering Policy can be obtained by downloading a copy from our website www.kwa.kerala.gov.in. Any changes to this Metering Policy will operate prospectively and not retrospectively.

Meter Policy Objectives

The objectives of the Water Meter Policy are:

1. To provide fair equity for the KWA Customers
2. To encourage best practice
3. To ensure consistent approach to metering solutions.

Provisions in KWA Act and Regulations

The provisions in Kerala Water Supply & Sewerage Act, 1986 (Latest amendment in 2008) and Kerala Water Authority (Water Supply) Regulations, 1991 (Latest amendment in 1998) pertaining to standard of water meters is reproduced below for review.

1. Kerala Water Supply & Sewerage Act, 1986 - Chapter VI- Section 42

Provision of water meters.—

- (1) The consumer shall provide a water meter and attach the same to the service, pipes in his premises connected with the water works of the Authority after obtaining approval from the Authority.
- (2) The consumer shall repair or replace water meters installed in his premises, at his own cost whenever required to do so by the Authority.
- (3) Notwithstanding anything contained in sub-section (1), the Authority shall have the power to install its own water meters to any connection wherever the Authority deems fit.
- (4) The provision of water meters and the transfer of connection thereto, the use, maintenance and testing of such meters and the expense of installation thereof and their rents and the furnishing of security, if any, in connection therewith shall be regulated by regulations.

2. Kerala Water Authority (Water Supply) Regulations,1991 – Regulation 12

Installation of water meter and stop cock.—

- a) Every premises to which water is supplied, shall be provided with a separate house connection,



separate stop cock and separate meter attached to the connection pipe.

(b) In the case of all types of connection, the meter at the premises shall be provided by the consumer. Where, however, the meter has already been provided by the Authority, the hire charges for such meters shall be Rs. 10 per month.

(c) The meter installed as provided in clause (a)] shall have Bureau of Indian Standards Certification Marks and approved by the Authority and having a test certificate issued by the Assistant Executive Engineer regarding the accuracy of the meter. Meter shall be procured by the applicant and produced before the Assistant Executive Engineer for inspection and installation at site.

(d) Every meter shall be provided with a meter box and cover, of a type approved by the Authority made of good weather resistant and strong material like steel, cement concrete or HDPE, by the owner or occupier of the premises. The meter shall be placed above ground level, wherever practicable, in such a manner as to be easily read, repaired or serviced.

Indian and International Standards

- IS 779: 1994 (Reaffirmed 2015) - SPECIFICATION FOR WATER METERS (DOMESTIC TYPE)
- IS 2373: 1981 (Reaffirmed 2017)- SPECIFICATION FOR. WATER METERS (BULK TYPE)
- IS 2401: 1973 - CODE OF PRACTICE FOR SELECTION, INSTALLATION AND MAINTENANCE OF DOMESTIC WATER METERS
- IS 6784:1996 – METHOD OF PERFORMANCE TESTING OF WATER METERS
- ISO 4064-1:2014 – WATER METERS FOR COLD POTABLE WATER AND HOT WATER – METROLOGICAL AND TECHNICAL REQUIREMENTS
- ISO 4064-2:2014 – WATER METERS FOR COLD POTABLE WATER AND HOT WATER – TEST METHODS

Water meter (domestic) is an instrument covered in the Seventh Schedule of Legal Metrology (General) Rules, 2011 and as per Rule 13 of the Legal Metrology (General) Rules, 2011 shall conform, as regards physical characteristics, configuration, constructional details, materials, performance, tolerances and such other details, to the corresponding specifications laid down for such measuring instrument in Eight Schedule. The Legal Metrology (Government Approved test Centre) Rules, 2013 prescribes that water meters shall be verified by Govt. Approved Test Centres in addition to verification done by the State Government Officers of Legal Metrology. The International Organization of Legal Metrology (OIML) has even published separate Regulations for water meters as Weights and Measures (Metrological Control of Water Meters) Regulations, 2014.

Sizing of Water Meters

The nominal sizes of domestic water meters are varying from 15 mm to 50 mm as per {IS 779: 1994 (Reaffirmed 2015)} and bulk water meter is varying between 50 mm & above as per {IS 2373: 1981 (Reaffirmed 2017)}. ISO 4064:1993/ISO 4064:2014, Range of operation (flow rate) is specified for each water meter. Water meters should be selected based on the flow rate range expected at the location of installation. It is not depended on the adjoining pipe size. In general, main considerations are as follows:

