

OROMIA POTABLE WATER SUPPLY & SEWERAGE SERVICE FEDERATION

Directorate of Engineering, Technical Standards & BOQ Coordination

Technical Reference Manual • Standard Bill of Quantities (BOQ) Guidelines (2026 Edition)

Document Code:	OPWSSSF-TS-BOQ-2026-V1
Scope:	Deep Well Drilling, Distribution Networks, Reservoirs & Electromechanical Supplies
Effective Period:	Fiscal Cycle 2026 – 2028
Approved By:	Federation Executive Secretariat & Technical Review Council

1. Executive Purpose & Scope

This technical guideline establishes standardized unit rate templates, material specifications, and engineering takeoff methodologies for all capital water infrastructure procurement conducted by member utilities under OPWSSSF umbrella.

2. Standard Procurement & Engineering Schedule

Item	Engineering Description & Scope	Unit	Standard Spec	Compliance
1.01	Rotary drilling for deep production water wells (depth 200m - 350m) including lithological logging	Meter (m)	ISO 22475	Mandatory
1.02	Supply and installation of High Density Polyethylene (HDPE) pressure pipes PN 16, DN 110mm to DN 315mm	Meter (m)	ISO 4427 / EN 12201	Mandatory
1.03	Submersible multi-stage centrifugal pump assembly with automated soft-starter control panel	Set	DIN 24255	Mandatory

Item	Engineering Description & Scope	Unit	Standard Spec	Compliance
1.04	Reinforced circular concrete service reservoir (RC) capacity 500m ³ to 2,000m ³	Lump Sum	BS 8007 Water Retaining	Mandatory

3. Quality Assurance & Factory Acceptance Testing

All electro-mechanical units, pressure fittings, and water treatment chlorination units procured under Federation pooled procurement tenders must undergo strict Factory Acceptance Testing (FAT) with participation from designated Federation water engineers.