

Bill of quantities

Building automation - HOAI work stages 5 and 6

Project information

Project	Sample project
Client	Musterkunde GmbH, Musterstraße 1, 12345 Musterstadt
Contractor	MSR-Innovations GmbH
Prepared by	Max Mustermann
Date	1 January 2026
Revision	v1.0 (sample)
Procedure	Public tender
Tender opening	1 February 2026, 10:00, Musterstraße 1, 12345 Musterstadt
Award deadline	By 28 February 2026
Execution period	1 April 2026 to 31 December 2026
Tender total	Prices omitted (version without unit prices or total prices)

English translation of the anonymised German sample. Project names, dates and values are sample information.

Contents

Section	Page
Contents	2
1 Note on this sample document	4
2 Contents of the original document	5

List of tables

Table	Page
1 Profile of the original document	4
2 Contents of the original document (anonymised)	6

1 Note on this sample document

This is an anonymised sample document. It shows the cover information and the complete contents of the original document and ends at that point. The specification and individual bill items are not included in this sample. This document was prepared for MSR-Innovations GmbH. Client-specific documents are used or created for each company.

All project, company, personal and location details, dates and deadlines, and all prices have been replaced with sample information or removed. MSR-Innovations GmbH is identified as the author. The structure, chapter sequence, reference page numbers and extent are retained from the German original.

Characteristic	Details
Document type	Specification with bill of quantities
Discipline / technical field	Building automation (KG 480): automation equipment, control cabinets, automation management, cables and data networks
HOAI work stage	Stage 5 - cost estimate; stage 6 - preparation for contract award
Length of the original	252 pages
Original structure	6 sections, 18 subsections, 525 items
Hierarchy depth	3 levels (section, subsection, item)
Revision	v1.0 (sample)
Language of the original	German

Table 1: Profile of the original document.

2 Contents of the original document

The following overview reproduces the complete contents of the original document, including every section, subsection and original page reference.

Chapter	Original page
01 KG481 Automation equipment	11
01.01 Automation station	11
01.02 Sensors	116
01.03 Actuators	129
02 KG482 Control cabinets and automation centres	135
02.01 Control cabinet ASP01/ASP02/ASP04/ASP05/ASP06/ASP11/ASP12/ASP21/ASP31	135
02.02 Control cabinet ASP03	161
02.03 Control cabinet ASP41/ASP42/ASP43/ASP44/ASP45	174
03 KG483 Automation management	186
03.01 Management-level hardware	186
03.02 Management-level software	188
04 KG484 Cables, wiring and cable containment	216
04.01 Wiring	216
04.02 Connections	222
04.03 Cable containment	225
04.04 Equipotential bonding	235
05 KG485 Data networks	236
05.01 Data networks	236
06 KG489 Other	237
06.01 Core drilling and ancillary building works	237
06.02 Other	239
06.03 Fire protection measures	240
06.04 Dayworks	241
06.05 Special services	244

Contents of the original document (continued)

Chapter	Original page
Summary (level 2)	251
Summary	252

Table 2: Contents of the original document (anonymised).