4.12.2	Preliminary Design Report Deliverables	.16
4.12.3	Final Design Report Deliverables.	.18
4.12.4	Submission of Reports, Document and Drawings	.18
4.12.5	Quality Assurance System	.19
4.13	Training of Beneficiary's Personnel	.20
4.14	As-built Documents	.20
4.15	O&M (Operation and Maintenance) Manuals	.20
4.16	Facilities for Staff and Labor	.22
4.16.1	Facilities for Contractor's Personnel	.22
4.16.2	Facilities for Engineer's Personnel	.23
4.16.3	Meeting Facilities	.23
4.17	Health and Safety	.24
4.17.1	General	.24
4.17.2	Safety guarantee plan	.26
4.17.3	First medical aid	.26
4.17.4	Emergency measures	.26
4.17.5	Access of emergency services	.27
4.17.6	Excavations	.27
4.17.7	Fire protection	.27
4.17.8	Blasting	.27
4.18	Inspection and Testing prior to Taking-Over	.28
4.18.1	General	.28
4.18.2	Off-Site Inspection and Testing	.28
4.19	Tests on Completion	.28
4.19.1	General	.28
4.19.2	Pre-commissioning & Commissioning Tests	.29
4.19.2.1	Test Equipment	.30
4.19.2.2	Functional "Cold Water" Machine Tests	.30
4.19.2.3	Hydraulic Tests	.31
4.19.2.4	Testing of Pipes Generally	.31
4.19.2.5	Testing of Pipelines	.31
4.19.2.6	Testing of Tanks	.31
4.19.3	Trial operation (running-in and process proving)	.32
4.20	Employer's Taking-Over of the Works	.35
4.21	Test after Completion/Performance Measurement	.35