



LIVRE
ENGINEERING &
CONSULTING

ABOUT US

LivRE was established in June 2020 in Ankara to provide engineering and consultancy services for the railway industry as LivRE Mühendislik Danışmanlık San. ve Tic. Limited Şirketi.

Parallel to the structural reforms in the European Railway sector, Turkey has taken steps towards a liberal railway market that revealed the need for services such as technical conformity assessment, independent safety and risk assessment, certification against various standards/regulations and consulting. In this regard LivRE started its journey in order to meet changing needs of particularly local clients blending various personal technical expertise in different transport modes, primarily railways, within its organization.

RAILWAY ENGINEERING AND CONSULTING SOLUTIONS

SERVICES

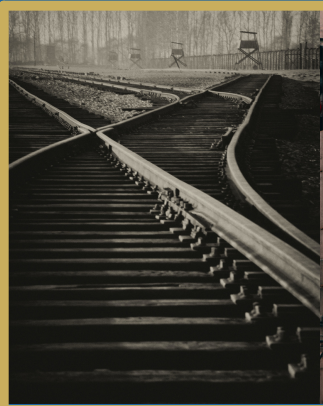
INDEPENDENT SAFETY ASSESSMENT AGAINST CSM RA AND EN 5012X STANDARD SERIES

With regards to independent safety assessment; LivRE is able to oversee the safety assessments to be performed at component and / or system level as a whole and support its clients with the preparation of engineering documents and management of the entire assessment process in line with CSM RA (Common Safety Method for Risk Assessment) and also the project life cycle stages specified in EN 5012X standard series.

CERTIFICATION AND CONSULTANCY SERVICES FOR ENTITIES IN CHARGE OF MAINTENANCE (ECM)

You can not only benefit from LivRE's expertise in the execution of the entire certification process with certification bodies but also in developing the maintenance management system and preparation/improvement of a series of instructions and procedures that should be prepared and implemented exclusively for the maintenance activities performed.

KEY SERVICES WITH RESPECT TO RAILWAY SUB-SYSTEMS

	
Infrastructure	Energy
EC Verification (TSI INF, PRM, SRT)	EC Verification (TSI ENE, SRT)
Independent Safety Assessment	Independent Safety Assessment
Test Witnessing (Track geometry, wheel-rail interaction)	Test Witnessing (uplift, catenary-panto interaction)
Product Approval (rail, sleeper, rail fastening system)	Trainings for operation and maintenance
Trainings for operation and maintenance	

	
Control-Command-Signalling	Rolling Stock
EC Verification (TSI CCS, SRT)	EC Verification (TSI Loc&Pas, Noi, PRM, SRT)
Independent Safety Assessment	Independent Safety Assessment
Test Witnessing (ERTMS, ATS)	Approval Management
Product Approval (ETCS on-board, RBC, Eurobalise)	ECM Certification
ERTMS trainings	Product Approval (bogies, wheel etc.)
	Trainings for operation and maintenance

TECHNICAL CONFORMITY ASSESSMENTS AGAINST TECHNICAL SPECIFICATIONS FOR INTEROPERABILITY

LivRE is able to carry out the technical conformity assessment process starting from module selection, document preparation up to conformity assessment and certification stages in one hand according to technical specifications for interoperability, which are mandatory for all railway systems across Europe and for the rolling stock sub-system in Turkey.

CONSULTANCY SERVICES FOR URBAN/NATIONAL TRAIN OPERATORS AND INFRASTRUCTURE MANAGERS ON SMS

Currently, both in Europe and in Turkey, train operators and infrastructure managers are obliged to carry out their activities in line with a safety management system established within their organizations. In this context, National Safety Authorities perform audits periodically and certify/authorize operators. LivRE can carry out a series of activities such as document preparation, document improvement, training for the development of safety culture, and provides important support services that will contribute to the overall safety performance of train operators and infrastructure managers.

LivRE provides engineering-consultancy services for all processes in this summary table and can carry out all the testing, certification and approval management processes at component or system level.

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