

THE OMAN NATIONAL RAILWAY (ONR) PROJECT



Italferr S.p.A.



Italferr, the Italian State Railways Group engineering firm, operates on the Italian and international markets in the field of rail transport engineering.

A highly qualified staff and specialist knowhow coming from the finest engineering traditions give Italferr a strategic role in the modernization and development process of the Italian railway network and ranks the firm on the international market, where it fulfils important roles.



Our figures



- **1,250** highly qualified, **specialist** staff members
- 12 branch offices around Italy
- 12 branches/offices overseas
- Estimated production value for 2013: 138 million
 Euro
- Investments managed: 73 billion Euro
- Operating in more than 100 construction sites as
 Director and Supervisor of Works
- **580 contracts** currently under management



Our services



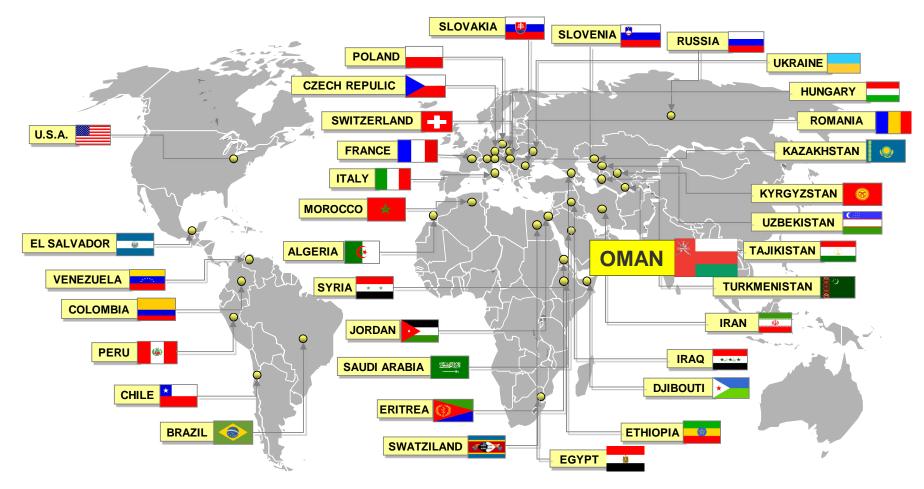


GRUPPO FERROVIE DELLO STATO ITALIANE

- Feasibility studies
- Transport development plans
- Costing
- Preliminary, definitive and executive designs
- Validation of plans
- Environmental impact studies
- Competitive bid documentation and procedures
- Project Management
- Integrated Management Systems (QAS)
- Cost planning and control
- Direction of works/Supervision of works
- Testing and commissioning
- Start-up
- Management assistance
- HR training and organizational consultancy services

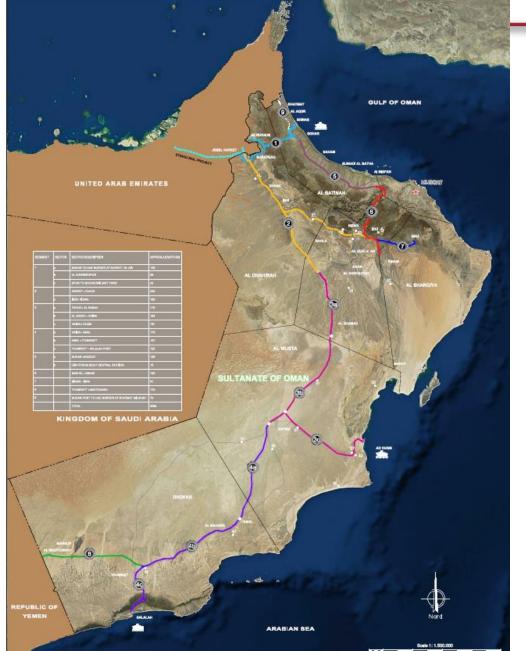
Italferr around the world

Italferr has run rail projects in more than 60 countries worldwide





The Oman Railway Network



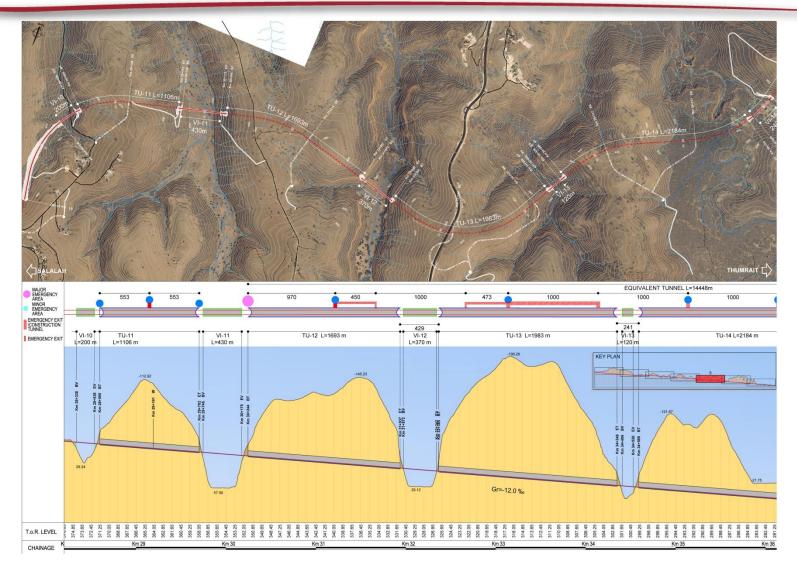
Segm ent	Sector	Sector Description	Approx Length km
b	Al Buraimi Spur	34	
с	Spur to Sohar Railway Yard	38	
2	а	Hafeet - Ibri	114
	b	Ibri –Al Dahra economic zone (Fahud)	126
	С	Ibri- Nizwa	160
3	а	Al Dhara economic zone - Al Gabah	116
	b	Al Gabah-Haima	197
	с	Al Gabah - Duqm	175
4	а	Haima- Amal	166
	b	Amal - Thumrayt	220
	с	Thumrayt - Salalah Port	93
5	а	Sohar - Muscat (Al Misfah)	188
	b	Link for Muscat Central Station	18
6	а	Al Misfah - Sinaw	160
7	а	Sinaw - Ibra	91
8	а	Thumrayt - Mazyounah	194
9	а	Sohar Port to UAE Border at Khatmat Milaha	70
		Total	2295

Numbers of Oman National Railway Project

- Total Length of about 2300 km, divided into 9 Segments linking Omani ports and main economic centres with UAE and the GCC Railway. Future connection to Yemen border is also planned;
- Double Track non-electrified railway line with Continuous Welded Rail (CWR);
- Mixed Freight and Passenger traffic;
- Maximum speed of 120 km/h for freight trains and 220 km/h for passenger trains (corridor design up to 350 km/h);
- Maximum permissible axle load: 32,4 tons;
- Design Standards: Arema/International Std;
- Signaling System based on ERTMS Level 2;
- □ Telecommunication System based on GSM-R based.



Alignment Design – Plan Profile





Tunnelling

The Project envisages the necessity of tunneling to overcome the orographic situation of the territory.





STRUCTURES





STRUCTURES





Multiple arch Viaduct



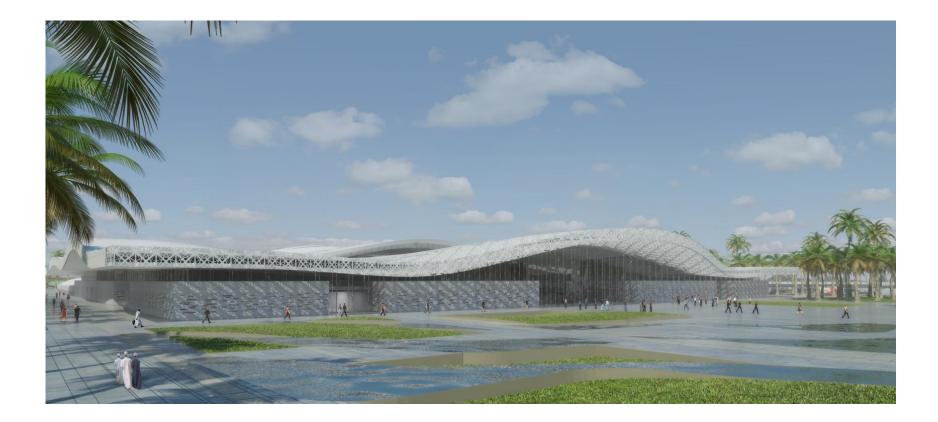


Single arch viaduct





STATIONS





Signaling

Signaling_UNISIG RULES and ERTMS L2 Data flow

