Procurement of OEM Kevlar cable

Marck G Smit
Jack Schilling
Start point/wishes

- Start point:
  - Existing cable: 16 ton, 7 conductors: good track record
  - Trials Nexans test cable:
    - Ss tubing, gel filled, 4 fibers: performed good
    - Straight yarns: not suitable for traction winch
- Wishes:
  - Fiber optics added
  - Higher Breaking Load: ø18 mm ➔ ø 20 mm
Suitable for NIOZ traction winch
2 steps: 1. 300 m trial cable, 2. final cable
Nominal load: 20% of breaking load
Accepted overload: 10 x/year: 30%
Penalties for lost fibers/conductors
Penalty for breaking load deterioration > 4% after 2 year
Delivery time test cable: 3 months
Delivery time 9500 m final cable: 5 months
Interest IMR, NOC and Portugese Hydr Inst mentioned
Quotations from:

- ATLAS ELEKTRONIK, UK
- Cousin-Trestec, France
- JDR, Netherlands
Thank you

Remarks, questions?

msmit@nioz.nl