CERN HILUMI LHC PROJECT POINT 1
EXTENSION OF PARTICLE ACCELERATOR
GENEVA (CH)

CLIENT
CERN European Organization for Nuclear Research, CH-1211 Geneva

DESIGNER
JV Origin
Setec alS, FR-69006 Lyon
CSD Ingénieurs SA, CH-1007 Lausanne
Rocksoil Spa, IT-20121 Milano

TIME OF COMPLETION
03.04.2018 – 31.08.2022

EXECUTION OF THE WORK
Joint Venture Marti Meyrin

CONSORTIUM PARTNERS
Marti Tunnel AG, CH-3302 Moosseedorf
Marti GmbH Deutschland, DE-70567 Stuttgart
Marti GmbH Österreich, AT-8045 Graz

LEAD COMPANY – TECHNICAL AND COMMERCIAl LEAD
Marti Tunnel AG, CH-3302 Moosseedorf

CONTRACT SUM
CHF 67.7 Mio.
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PROJECT DESCRIPTION
HiLumi LHC Project Point 1
Extension of particle accelerator
Access Shaft Ø 12 m, depth 60 m
Cryogenic Cavern L = 51 m / B = 18 m / H = 20 m
Long Power Converter Tunnel L = 300 m
Service Tunnels 4 pcs / Ø 3 m / L = 200 m
5 complex industrial buildings

WORK DESCRIPTION
Overground
Complex industrial buildings 5 pcs
Underground
Excavation 50'500 m³
Shotcrete (unreinforced, with fibres / net) 7'300 m³
Anchors 13'300 m
Steel construction 382 t
Formwork 16'300 m²
Reinforcement 935 t
In-situ concrete 17'800 m³
Waterproofing 16'800 m²

GEOLOGY
- Fresh water molasses:
  - 50% Sandstones
  - 50% marl
  - Horizontal storage

03.05.2018