

**DRAFT**

## Summary of lifting and handling equipment for ILC

The cost estimate for the ILC project includes 107 Electrical Overhead Traveling (EOT) cranes with a Safe Working Load (SWL) ranging from 5t to 80t for a total value of 36.65MCHF, 25 electrical hoists with a SWL of 5t for a total value of 2.5MCHF and 36 lifts with a SWL ranging from 0.32t to 3t cranes for a total value of 10.13MCHF.

All equipment is designed according to the European norms and consequently supplied with a CE conformity declaration.

All equipment is fitted with frequency/speed converters for all movements (i.e. lifting, crab and bridge movements of EOT cranes)). The long traveling (shaft) EOT cranes are in addition equipped with over speed detection, load variation detection and a safety brake that acts directly on the cable drum.

The high capacity EOT cranes ( $\geq 20t$ ) are in addition equipped with auxiliary hoist(s) of 5t capacity.

- 20 EOT cranes; SWL 5t; lifting height  $\leq 8m$ ; span  $\leq 10m$ ; single girder
- 4 EOT cranes; SWL 10t; lifting height  $\leq 12m$ ; span  $\leq 17m$ ; single girder
- 30 EOT cranes; SWL 15t; lifting height  $\leq 10m$ ; span  $\leq 22m$ ; double girder
- 28 EOT cranes; SWL 20t; lifting height  $\leq 9m$ ; span  $\leq 17m$ ; double girder
- 4 EOT cranes; SWL 20t; lifting height  $\leq 22m$ ; span  $\leq 32m$ ; double girder
- 15 EOT cranes; SWL 20t; lifting height  $\leq 120m$ ; span  $\leq 17m$ ; double girder
- 2 EOT cranes; SWL 40t; lifting height  $\leq 7m$ ; span  $\leq 57m$ ; double girder
- 4 EOT cranes; SWL 80t; lifting height  $\leq 120m$ ; span  $\leq 22m$ ; double girder
- 25 electrical hoists; SWL 5t; lifting height  $\leq 10m$
- 4 lifts; SWL 0.535t;  $\leq 7$  passengers; cabin dimension (l\*w\*h) 950\*1000\*2200mm; 6 floor cavern
- 5 lifts; SWL 0.675t;  $\leq 9$  passengers; cabin dimension (l\*w\*h) 1240\*1100\*2200mm; 3 to 5 floor buildings
- 7 lifts; SWL 1.6t;  $\leq 21$  passengers; cabin dimension (l\*w\*h) 2900\*1100\*2200mm; 2 to 5 floor buildings
- 10 lifts; SWL 1.6t;  $\leq 21$  passengers; cabin dimension (l\*w\*h) 2900\*1100\*2200mm; shaft 100m, 5 floors
- 10 lifts; SWL 3t;  $\leq 35$  passengers; cabin dimension (l\*w\*h) 2700\*1850\*2200mm; shaft 100m, 5 floors