

## ANNEX I: TECHNICAL DATA

### I.1 Replacement of power supply cables at the trolley power chain system (on RMG cranes):

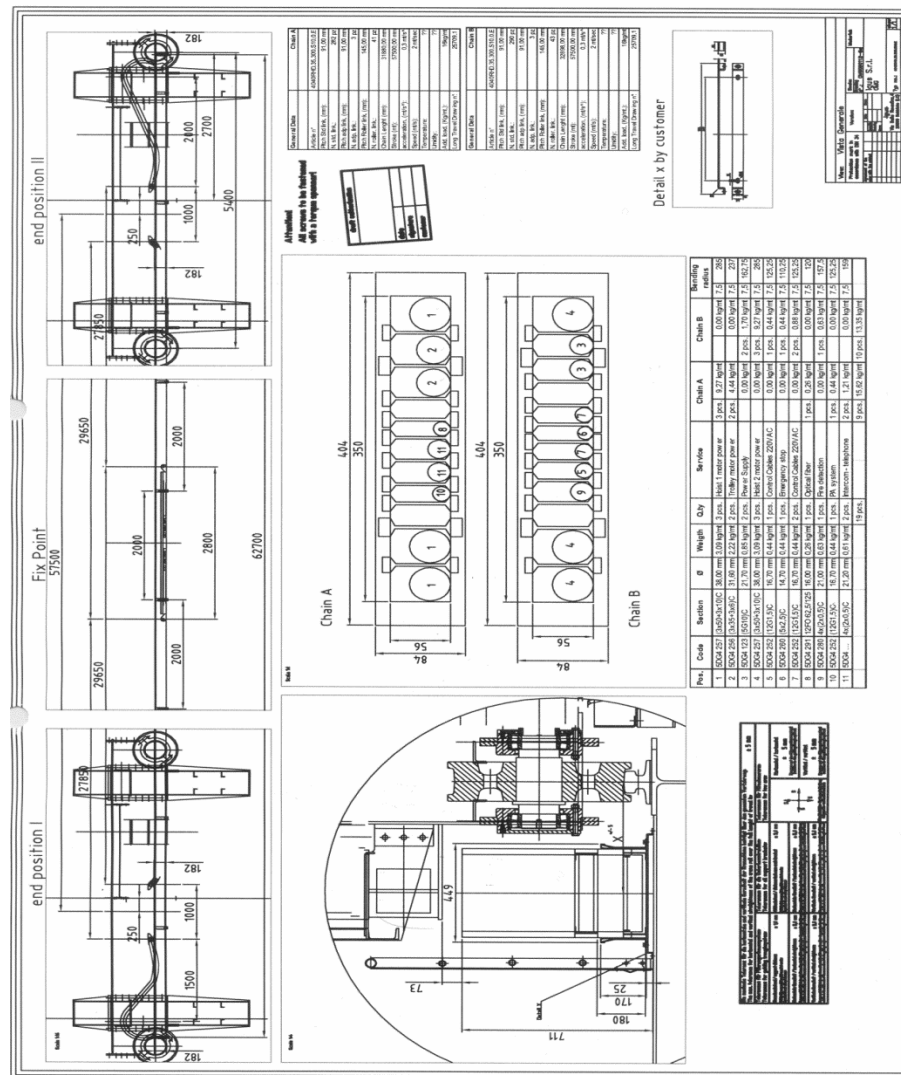
The trolley chain system consists of two power chains (A & B) with lengths of approx. 32 m (power chain A) and approx. 33 m (power chain B).

On each RMG the power supply cables which must be replaced are 10 cables with approx. 70 m length each and approx. total length for every RMG 700m, the cables specifications mentioned at Annex I.

**Important note:** The cables will be provided by PPA side.

Power supply cables at the trolley power chain system on each RMG:

N°	Section cable (mm <sup>2</sup> )	QTY		Cable length (m)	Total length (m)
1	3x50+3x10	6	pcs	70	420
2	3x35+3x6	2	pcs	70	140
3	5G10	2	pcs	70	140



## **I.2 Replacement of spare parts at trolley power chain:**

The trolley power chain is IGUS 4040RHD.35.300.S10.O.E. and consists of the following parts:

- i. Side part IGUS 4040RHDB.01.300.S10.O.E – Six hundred and seventy two (672) pieces,
- ii. Other side link 4040RHDB.02.300.S10.O.E – Six hundred and seventy two (672) pieces,
- iii. Cross bar 450.33 – One thousand, three hundred and forty-four pieces (1344).
- iv. Mounting brackets 4040.HD.12.E.

The parts that must be replaced are the 4040RHD.35.300.S10.O.E, 4040RHDB.01.300.S10.O.E, 4040RHDB.02.300.S10.O.E and the 4040.HD.12.E where is necessary with extra charge, the rest parts will remain as original.

**Important note:** The spare parts will be provided by PPA side. The contractor is obliged to repair any misalignment of the supporting channel in order to guarantee the smooth operation of system.

## **I.3 Replacement of RMG spreader cables:**

The spreader cable is Brand: SPREADERFLEX 3GSLTOE-J 48x2.5 mm<sup>2</sup> and has a length of 42 meters on each crane.

## **I.4 Re-connecting the cables in cable channels, with metallic tie wraps**

The RMG cranes equipped with cable channels of approx. length of 100 meters. Some of the cables are out of position and the re-positioning of them is necessary for the smooth operation and life span of cables.

The requested works regards the reposition of the cables to the original position by the use of proper metallic tie wraps for long life support of the cables.

Important note: The provision of the metallic tie wraps will be borne by the contractor.

## **IMPORTANT NOTE FOR ALL ABOVE WORKS**

**The contractor who will execute the above works is obliged, in the event of pin changes to the cables, to update the electrical drawings of the machinery.**