

خوكاب -HV Ducab - HV



INTRODUCTION

Ducab HV (DHV) is the first dedicated high voltage (60kV - 150kV) and extra high voltage (220kV - 500kV) power cable manufacturing facility in the Middle East. The company is a joint venture between Ducab Group (50%); Abu Dhabi Water and Electricity Authority (ADWEA -25%) and Dubai Electricity and Water Authority (DEWA -25%).

This unique partnership draws on the collective strengths of its shareholders:

Ducab Group - proven local power cable manufacturing quality up to and including 132kV. The first of Ducab's factories was erected in Jebel Ali, Dubai in 1979, under the auspices of BICC, with it's first HV cable supplied in 2004. Now generating turnover in excess of US\$1 billion, the Group manufactures cables in three regionally based factories, including a copper rod manufacturing facility. In keeping with its pioneering spirit in the region, Ducab Group still proudly bears the BICC brand and, through DHV, has now successfully extended its operational base to a fourth factory.

ADWEA and DEWA - represent the two largest water and electricity authorities in the region and are experienced leaders in the electricity supply industry. Due to the rapid growth associated with both emirates, each owns, operates and installs extensive underground (LV, MV, HV and EHV) cable networks with Abu Dhabi controlling one of the world's largest 400kV XLPE underground cable networks.

The DHV facility is a state of the art plant employing the latest machinery and technology available to produce HV and EHV cable. In order for the factory to maximise its resources and produce world's best practice within a reliable and repeatable process it was decided at the outset to also align with an experienced cable technology partner.

HV and EHV manufacturing technology has been in existence since the 1960's when Japanese cable makers were the first to produce XLPE insulated cables in these voltage ranges. A natural fit with a technology leader has therefore now also been cemented with the signing of a technology transfer agreement between DHV and J-Power Systems (a Japanese joint venture company bringing together the combined HV and EHV power cable expertise of Hitachi and Sumitomo).

The combined experience, technology and know how brought together by DHV's facilities, its shareholders and its engagement with its technology partner culminate in making it a formidable player in the power cable market. The company draws on the best available resources world wide and looks forward to bringing its customer base **ENERGY AT A HIGHER LEVEL**.

The DHV plant was formally inaugurated by His Highness Sheikh Mohammed Bin Rashid Al Maktoum, UAE Vice-President, Prime Minister and Ruler of Dubai on 29 November 2011 and in the presence of His Highness Sheikh Hamed Bin Zayed Al Nahyan, Chairman of the Abu Dhabi Crown Prince's Court.

PRODUCT AND SERVICE RANGE

Ducab HV offers turnkey cable system solutions:

MANUFACTURE OF XLPE INSULATED POWER CABLES FROM 60kV – 500kV

- · Conductors in either copper or aluminium
- Conductor sizes from 150mm² 2500mm²
- Cables are currently finished with a combination of either a lead sheath and copper wire screen or a laminated sheath and copper wire screen

ACCESSORIES

- Full range to suit cable, from pre-approved suppliers
- System type tested/pre-qualification tested
- Proven compatibility of components

TECHNICAL

- · Theory and specifications
- System design
- Earthing and bonding design
- Optimisation (includes longer cable lengths)

INSTALLATION

- Site supervision services
- Civil work
- Cable installation
- Jointing and terminating

TRAINING

- In-house and tailor made to customer's requirements
- Facilitating

TESTING

- Dedicated Type Test laboratory
- 600kV ac test capability
- 1900kVp impulse generator



