



**HES HACILAR ELEKTRİK
SANAYİ VE TİCARET A.Ş.**

**‘HES KABLO’
IS THE MEMBER OF
BOYDAK HOLDING**





BOYDAK HOLDING

- 8 Sectors
- 42 Companies
- 7 Companies at Top 500 in Turkey
- 13,830 Employees
- 3.0 Billion USD Turnover



SECTORS

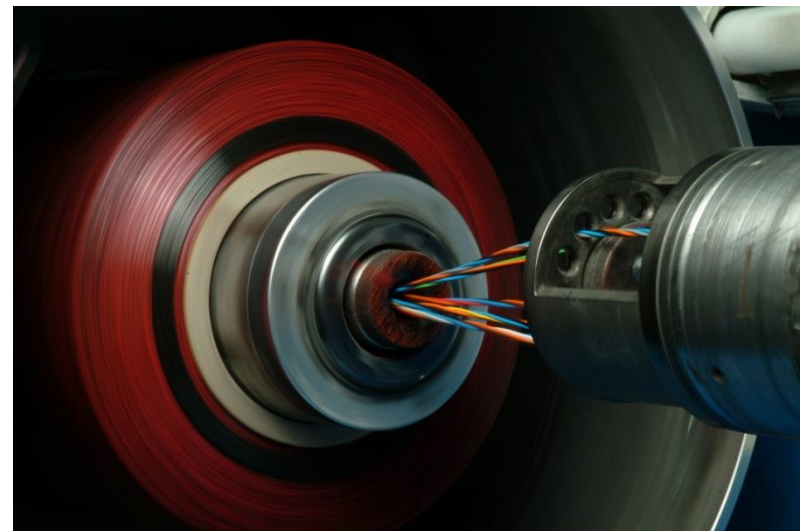
- CABLE - IT
- STEEL
- ENERGY
- FURNITURE
- TEXTILE
- CHEMISTRY
- LOGISTIC AND SERVICE
- FINANCE



BRAND NAMES

- HES KABLO
- HCS
- ERCİYES ÇELİK
- İSTİKBAL
- BELLONA
- MONDİ
- DECO
- BOYTEKS
- BOYDAK ENERJİ
- TÜRKİYE FİNANS

HES KABLO





COMPANY PROFILE

Establishment	1974
Employees	985
Turnover (2015)	456 million USD
Export (2015)	110 million USD
Site area	250,000 m ²
Floor space	120,000 m ²



MARKET AND SALES

Turkey Top 500 Industrial Companies 2014 Ranking	68th
Shortlist Among Cable Companies	Number 1
Overseas	133 Countries Worldwide



ADDRESS

Head Office	Kayseri
Offices	İstanbul Ankara
Production	Kayseri - Hacılar Kayseri – Industrial Zone

QUALITY MANAGEMENT SYSTEMS

ISO 9001

 Kalite Yönetim Sistemi TS EN ISO/IEC 17021 AB-0002-YS	KALİTE YÖNETİM SİSTEMİ BELGESİ QUALITY MANAGEMENT SYSTEM CERTIFICATE	 Partner of IO Net THE INTERNATIONAL CERTIFICATION NETWORK										
TÜRK STANDARDLARI ENSTİTÜSÜ bu belge ile HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş. MERKEZ: ERCİYES MAH. HES CAD. NO:22 HACILAR - KAYSERİ ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD. NO:68 MELİKGAZİ - KAYSERİ / TÜRKİYE kuruluşunun TS EN ISO 9001:2008 şartlarına uygun bir KALİTE YÖNETİM SİSTEMİNE sahip olduğunu onaylar.	 TÜRK STANDARDLARI ENSTİTÜSÜ TURKISH STANDARDS INSTITUTION Kayseri Belgelendirme Müdürü Kayseri Certification Director A. Mahmut ULAŞ Türk Standardları Enstitüsü Türk Akreditasyon Kurumu TÜRKAK tarafından akredite edilmiştir. Turkish Standards Institution, has been accredited by the Turkish Accreditation Agency TÜRKAK.	TURKISH STANDARDS INSTITUTION hereby certifies that the organization HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş. MERKEZ: ERCİYES MAH. HES CAD. NO:22 HACILAR - KAYSERİ ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD. NO:68 MELİKGAZİ - KAYSERİ / TÜRKİYE has a QUALITY MANAGEMENT SYSTEM which fulfills the requirements of the TS EN ISO 9001:2008 Scope of the certificate is given in annex <table border="1"><tr><td>Belge No / Certificate No</td><td>KY-054-03/KG-93/09-R</td></tr><tr><td>Belge Tarihi / Date of Certificate</td><td>11.03.2015</td></tr><tr><td>Geçerlilik Tarihi / Valid Until</td><td>11.03.2018</td></tr><tr><td>Revizyon Tarihi / Date of Revision</td><td>11.03.2015</td></tr><tr><td>İlk Belge Tarihi / Initial Certification Date</td><td>15.11.1993</td></tr></table> This certificate is valid provided that compliance with the certification requirement is maintained.	Belge No / Certificate No	KY-054-03/KG-93/09-R	Belge Tarihi / Date of Certificate	11.03.2015	Geçerlilik Tarihi / Valid Until	11.03.2018	Revizyon Tarihi / Date of Revision	11.03.2015	İlk Belge Tarihi / Initial Certification Date	15.11.1993
Belge No / Certificate No	KY-054-03/KG-93/09-R											
Belge Tarihi / Date of Certificate	11.03.2015											
Geçerlilik Tarihi / Valid Until	11.03.2018											
Revizyon Tarihi / Date of Revision	11.03.2015											
İlk Belge Tarihi / Initial Certification Date	15.11.1993											
Belge kapsamı Ek'te verilmiştir												
Bu belge belgelendirme şartlarına uygunluk sağlandığı sürece geçerlidir.												

ISO 9001



KALİTE YÖNETİM SİSTEMİ BELGESİ QUALITY MANAGEMENT SYSTEM CERTIFICATE EK / ANNEX



Belge No / Certificate No: KY-054-03/KG-93/09-R

Belgeli Kuruluş Adı, Adresi:

Name and Address of the Certified Organization:

Belge Kapsamı:

TS EN ISO 9001:2008

- TELEFON KABLOLARI
- ALCAK, ORTA VE YÜKSEK GERİLİM ENERJİ KABLOLARI
- HAVA HATLARINDA KULLANILAN ORGULU BAKIR İLETKENLER
- EMAYE BOBİN TELİ
- FİBER OPTİK KABLOLAR
- HAVA HATLARINDA KULLANILAN ALUMİNYUM İLETKENLER
- DATA KABLOLARI
- FİBER OPTİK KABLO AKSESUARLARI
- HAVA HATLARINDA KULLANILAN ALUMİNYUM İLETKENLİ KABLOLAR
- DATA KABLO AKSESUARLARI
- BAKIR FİLMASIN
- ALUMİNYUM FİLMASIN
- GRANUL ÜRETİM
- BAKIR TEL
- ALUMİNYUM TEL
- ÇELİK ÖZLÜ ALUMİNYUM İLETKENLER
- OPGW FİBER OPTİK KORUMALI İLETKEN
- TASARIM VE ÜRETİMİ



Belge Tarihi / Date of Certificate: 11/03/2015

HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş.
MERKEZ: ERÇİYES MAH. HES CAD. NO:22
HACILAR - KAYSERİ
ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD.
NO:68 MELİKGAZİ -
KAYSERİ / TÜRKİYE

Scope of the Certificate:

TS EN ISO 9001:2008

- DESIGN AND PRODUCTION OF
- TELEPHONE CABLES
 - LOW, MEDIUM AND HIGH VOLTAGE POWER CABLES
 - STRANDED COPPER CONDUCTOR FOR OVERHEAD LINES
 - ENAMELLED COPPER WIRE
 - FIBER OPTIC CABLES
 - ROUND WIRE CONCENTRIC LAY OVERHEAD ELECTRICAL STRANDED ALUMINIUM CONDUCTORS
 - LAN CABLES
 - FIBER OPTIC CABLE ACCESSORIES
 - ROUND WIRE CONCENTRIC LAY OVERHEAD ELECTRICAL STRANDED ALUMINIUM CONDUCTORS CABLES
 - LAN CABLES ACCESSORIES
 - COPPER ROD
 - ALUMINIUM ROD
 - GRANULE PRODUCTION
 - COPPER WIRE
 - ALUMINIUM WIRE
 - STEEL CORE ALUMINIUM CONDUCTORS
 - OPGW OPTICAL GRAUND WIRE

ENVIRONMENTAL MANAGEMENT SYSTEM ISO 14001

 TÜRKAK Çevre Yönetim Sistemi TS EN ISO/IEC 17021 AB-0002-YS	ÇEVRE YÖNETİM SİSTEMİ BELGESİ ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE	Partner of  THE INTERNATIONAL CERTIFICATION NETWORK										
TÜRK STANDARDLARI ENSTİTÜSÜ bu belge ile HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş. MERKEZ: ERCİYES MAH. HES CAD. NO:22 HACILAR - KAYSERİ ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD. NO:68 MELİKGAZI - KAYSERİ / TÜRKİYE kuruluşunun TS EN ISO 14001:2004 şartlarına uygun bir ÇEVRE YÖNETİM SİSTEMİNE sahip olduğunu onaylar. Belge kapsamı Ek'te verilmiştir	 TÜRK STANDARDLARI ENSTİTÜSÜ TURKISH STANDARDS INSTITUTION Kayseri Belgelendirme Müdürü Kayseri Certification Director A. Mahmut ULAS Türk Standardları Enstitüsü Türk Akreditasyon Kurumu TÜRKAK tarafından akredite edilmiştir. Turkish Standards Institution, has been accredited by the Turkish Accreditation Agency TÜRKAK.	TURKISH STANDARDS INSTITUTION hereby certifies that the organization HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş. MERKEZ: ERCİYES MAH. HES CAD. NO:22 HACILAR - KAYSERİ ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD. NO:68 MELİKGAZI - KAYSERİ / TÜRKİYE has an ENVIRONMENTAL MANAGEMENT SYSTEM which fulfills the requirements of the TS EN ISO 14001:2004 Scope of the certificate is given in annex <table border="1"><tr><td>Belge No / Certificate No</td><td>CY-055-06/00</td></tr><tr><td>Belge Tarihi / Date of Certificate</td><td>11.03.2015</td></tr><tr><td>Geçerlilik Tarihi / Valid Until</td><td>11.03.2018</td></tr><tr><td>Revizyon Tarihi / Date of Revision</td><td>11.03.2015</td></tr><tr><td>İlk Belge Tarihi / Initial Certification Date</td><td>21.06.2000</td></tr></table> This certificate is valid provided that compliance with the certification requirement is maintained.	Belge No / Certificate No	CY-055-06/00	Belge Tarihi / Date of Certificate	11.03.2015	Geçerlilik Tarihi / Valid Until	11.03.2018	Revizyon Tarihi / Date of Revision	11.03.2015	İlk Belge Tarihi / Initial Certification Date	21.06.2000
Belge No / Certificate No	CY-055-06/00											
Belge Tarihi / Date of Certificate	11.03.2015											
Geçerlilik Tarihi / Valid Until	11.03.2018											
Revizyon Tarihi / Date of Revision	11.03.2015											
İlk Belge Tarihi / Initial Certification Date	21.06.2000											

ISO 14001



ÇEVRE YÖNETİM SİSTEMİ BELGESİ ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE EK / ANNEX



Belge No / Certificate No: ÇY-055-06/00

Belgeli Kuruluş Adı, Adresi:

Name and Address of the Certified Organization:

Belge Kapsamı:

TS EN ISO 14001:2004

- TELEFON KABLOLARI
- ALCAK, ORTA VE YÜKSEK GERİLİM ENERJİ KABLOLARI
- HAVA HATLARINDA KULLANILAN ÖRGÜLÜ BAKIR İLETKENLER
- EMAYE BOBİN TELİ
- FİBER OPTİK KABLOLAR
- HAVA HATLARINDA KULLANILAN ALÜMİNYUM İLETKENLER
- DATA KABLOLARI
- FİBER OPTİK KABLO AKSESUARLARI
- HAVA HATLARINDA KULLANILAN ALÜMİNYUM İLETKENLİ KABLOLAR
- DATA KABLOLARI AKSESUARLARI
- BAKIR FİLMASIN
- ALÜMİNYUM FİLMASIN
- GRANÜL ÜRETİM
- BAKIR TEL
- ALÜMİNYUM TEL
- ÇELİK ÖZLÜ ALÜMİNYUM İLETKENLER
- OPGW FİBER OPTİK KORUMALI İLETKEN TASARIM VE ÜRETİMİ



Belge Tarihi / Date of Certificate: 11/03/2015

HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş.
MERKEZ: ERCİYES MAH. HES CAD. NO:22
HACILAR - KAYSERİ
ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD.
NO:68 MELİKGAZİ -
KAYSERİ / TÜRKİYE

Scope of the Certificate:

TS EN ISO 14001:2004

- DESIGN AND PRODUCTION OF
- TELEPHONE CABLES
 - LOW, MEDIUM AND HIGH VOLTAGE POWER CABLES
 - STRANDED COPPER CONDUCTOR FOR OVERHEAD LINES
 - ENAMELLED COPPER WIRE
 - FIBER OPTIC CABLES
 - ROUND WIRE CONCENTRIC LAY OVERHEAD ELECTRICAL STRANDED ALUMINIUM CONDUCTORS
 - LAN CABLES
 - FIBER OPTIC CABLE ACCESSORIES
 - ROUND WIRE CONCENTRIC LAY OVERHEAD ELECTRICAL STRANDED ALUMINIUM CONDUCTORS CABLES
 - LAN CABLES ACCESSORIES
 - COPPER ROD
 - ALUMINIUM ROD
 - GRANULE PRODUCTION
 - COPPER WIRE
 - ALUMINIUM WIRE
 - STEEL CORE ALUMINIUM CONDUCTORS
 - OPGW OPTICAL GRAUND WIRE

ENERGY MANAGEMENT SYSTEM ISO 50001

TSE

ENERJİ YÖNETİM SİSTEMİ BELGESİ ENERGY MANAGEMENT SYSTEM CERTIFICATE



TÜRK STANDARDLARI ENSTİTÜSÜ
bu belge ile

HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş.
MERKEZ: ERCİYES MAH. HES CAD. NO:22
HACILAR - KAYSERİ
ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD.
NO:68 MELİKGAZI -
KAYSERİ / TÜRKİYE



Belge kapsamı Ek'te verilmiştir

TÜRK STANDARDLARI ENSTİTÜSÜ
TURKISH STANDARDS INSTITUTION

Kayseri Belgelendirme Müdürü
Kayseri Certification Director

A. Mahmut ULUŞ

Bu belge belgelendirme şartlarına
uygunluk sağlandığı surece geçerlidir.

Bu belge, Türk Standardları Enstitüsü'nün kuruluşu hakkındaki 132 sayılı kanun uyarınca verilmiştir.
This certificate is issued in accordance with the Law No. 132 establishing Turkish Standards Institution.

TURKISH STANDARDS INSTITUTION
hereby certifies that the organization

HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş.
MERKEZ: ERCİYES MAH. HES CAD. NO:22
HACILAR - KAYSERİ
ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD.
NO:68 MELİKGAZI -
KAYSERİ / TÜRKİYE

Scope of the certificate is given in annex

Belge No / Certificate No	EYB-012-12/EY-020-11
Belge Tarihi / Date of Certificate	09.03.2015
Geçerlilik Tarihi / Valid Until	09.03.2018
Revizyon Tarihi / Date of Revision	09.03.2015
İlk Belge Tarihi / Initial Certification Date	27.06.2011

This certificate is valid provided that compliance
with the certification requirement is maintained.

ISO 50001

TSE

ENERJİ YÖNETİM SİSTEMİ BELGESİ
ENERGY MANAGEMENT SYSTEM CERTIFICATE
EK / ANNEX

Partner of
IONet
THE INTERNATIONAL CERTIFICATION NETWORK

Belge No / Certificate No: EYB-012-12/EY-020-11

Belgeli Kuruluş Adı, Adresi:

Name and Address of the Certified Organization:

Belge Kapsamı:

TS-EN-ISO 50001

- TELEFON KABLOLARI
- ALCAK, ORTA VE YÜKSEK GERİLİM ENERJİ KABLOLARI
- HAVA HATLARINDA KULLANILAN ORGULU BAKIR İLETKENLER
- EMAYE BOBİN TELİ
- FİBER OPTİK KABLOLAR
- HAVA HATLARINDA KULLANILAN ALUMİNYUM İLETKENLER
- DATA KABLOLARI
- FİBER OPTİK KABLO AKSESUARLARI
- HAVA HATLARINDA KULLANILAN ALUMİNYUM İLETKENLİ KABLOLAR
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- ALUMİNYUM FİLMASIN
- GRANUL ÜRETİM
- BAKIR TEL
- ALUMİNYUM TEL
- ÇELİK ÖZLÜ ALUMİNYUM İLETKENLER
- OPGW FİBER OPTİK KORUMALI İLETKEN

TASARIM VE ÜRETİMİ

TSE
TS - EN - ISO
50001

Belge Tarihi / Date of Certificate: 09/03/2015

HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş.
MERKEZ: ERCİYES MAH. HES CAD. NO:22
HACILAR - KAYSERİ
ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD.
NO:68 MELİKGAZI -
KAYSERİ / TÜRKİYE

Scope of the Certificate:

TS-EN-ISO 50001

DESIGN AND PRODUCTION OF

- TELEPHONE CABLES
- LOW, MEDIUM AND HIGH VOLTAGE POWER CABLES
- STRANDED COPPER CONDUCTOR FOR OVERHEAD LINES
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- COPPER WIRE
- ALUMINIUM WIRE
- STEEL CORE ALUMINIUM CONDUCTORS
- OPGW OPTICAL GRAUND WIRE

381103201503131492

CUSTOMER SATISFACTION MANAGEMENT SYSTEM ISO 10002

TSE	MÜŞTERİ MEMNUNİYETİ YÖNETİM SİSTEMİ BELGESİ CUSTOMER SATISFACTION MANAGEMENT SYSTEM CERTIFICATE	Partner of IONet THE INTERNATIONAL CERTIFICATION NETWORK										
TÜRK STANDARDLARI ENSTİTÜSÜ bu belge ile	TURKISH STANDARDS INSTITUTION hereby certifies that the organization											
HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş. MERKEZ: ERCİYES MAH. HES CAD. NO:22 HACILAR - KAYSERİ ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD. NO:68 MELİKGAZI - KAYSERİ / TÜRKİYE	HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş. MERKEZ: ERCİYES MAH. HES CAD. NO:22 HACILAR - KAYSERİ ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD. NO:68 MELİKGAZI - KAYSERİ / TÜRKİYE											
	M - C TSE - ISO 10002											
Belge kapsamı Ek'te verilmiştir	TÜRK STANDARDLARI ENSTİTÜSÜ TURKISH STANDARDS INSTITUTION Kayseri Belgelendirme Müdürü V. Vice Kayseri Certification Director  C. Zafer DİLCİ	Scope of the certificate is given in annex										
		<table border="1"><tr><td>Belge No / Certificate No</td><td>MY-054/11</td></tr><tr><td>Belge Tarihi / Date of Certificate</td><td>02.06.2014</td></tr><tr><td>Geçerlilik Tarihi / Valid Until</td><td>02.06.2017</td></tr><tr><td>Revizyon Tarihi / Date of Revision</td><td>02.06.2014</td></tr><tr><td>İlk Belge Tarihi / Initial Certification Date</td><td>27.06.2011</td></tr></table>	Belge No / Certificate No	MY-054/11	Belge Tarihi / Date of Certificate	02.06.2014	Geçerlilik Tarihi / Valid Until	02.06.2017	Revizyon Tarihi / Date of Revision	02.06.2014	İlk Belge Tarihi / Initial Certification Date	27.06.2011
Belge No / Certificate No	MY-054/11											
Belge Tarihi / Date of Certificate	02.06.2014											
Geçerlilik Tarihi / Valid Until	02.06.2017											
Revizyon Tarihi / Date of Revision	02.06.2014											
İlk Belge Tarihi / Initial Certification Date	27.06.2011											
Bu belge belgelendirme şartlarına uygunluk sağlandığı sürece geçerlidir.	Bu belge, Türk Standardları Enstitüsü'nün kuruluşu hakkındaki 132 sayılı kanun uyarınca verilmiştir. This certificate is issued in accordance with the Law No. 132 establishing Turkish Standards Institution.	This certificate is valid provided that compliance with the certification requirement is maintained.										

ISO 10002

TSE

MÜŞTERİ MEMNUNİYETİ YÖNETİM SİSTEMİ BELGESİ
CUSTOMER SATISFACTION MANAGEMENT SYSTEM CERTIFICATE



TÜRK STANDARLARI ENSTİTÜSÜ
bu belge ile

HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş.
MERKEZ: ERCİYES MAH. HES CAD. NO.22 HACILAR -
KAYSERİ
ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD. NO.68
MELİKGAZI -
KAYSERİ / TÜRKİYE



Belge kapsamı Ek'te verilmiştir

TÜRK STANDARLARI ENSTİTÜSÜ
TURKISH STANDARDS INSTITUTION

Kayseri Belgelendirme Müdürü V.
Vice Kayseri Certification Director

C. Zafer DİLÇİ

Bu belge belgelendirme şartlarına
uygunluk sağlandığı sürece geçerlidir.

Bu belge, Türk Standartları Enstitüsü'nün kuruluşu hakkındaki 132 sayılı kanun uyarınca verilmiştir.
This certificate is issued in accordance with the Law No. 132 establishing Turkish Standards Institution.

TURKISH STANDARDS INSTITUTION
hereby certifies that the organization

HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş.
MERKEZ: ERCİYES MAH. HES CAD. NO.22 HACILAR -
KAYSERİ
ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD. NO.68
MELİKGAZI -
KAYSERİ / TÜRKİYE

Scope of the certificate is given in annex

Belge No / Certificate No
MY-054/11

Belge Tarihi / Date of Certificate
02.06.2014

Geçerlilik Tarihi / Valid Until
02.06.2017

Revizyon Tarihi / Date of Revision
02.06.2014

İlk Belge Tarihi / Initial Certification Date
27.06.2011

This certificate is valid provided that compliance
with the certification requirement is maintained.

LABOUR HEALTH & SAFETY MANAGEMENT SYSTEM OHSAS 18001

TSE	İŞ SAĞLIĞI ve GÜVENLİĞİ YÖNETİM SİSTEMİ BELGESİ OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE	Partner of IONet THE INTERNATIONAL CERTIFICATION NETWORK										
TÜRK STANDARDLARI ENSTİTÜSÜ bu belge ile HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş. MERKEZ: ERCİYES MAH. HES CAD. NO:22 HACILAR - KAYSERİ ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD. NO:68 MELİKGAZI - KAYSERİ / TÜRKİYE kuruluşunun TS 18001:2008 şartlarına uygun bir İŞ SAĞLIĞI ve GÜVENLİĞİ YÖNETİM SİSTEMİNE sahip olduğunu onaylar.	 TÜRK STANDARDLARI ENSTİTÜSÜ TURKISH STANDARDS INSTITUTION Kayseri Belgelendirme Müdürü Kayseri Certification Director A. Mahmut ULAS	TURKISH STANDARDS INSTITUTION hereby certifies that the organization HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş. MERKEZ: ERCİYES MAH. HES CAD. NO:22 HACILAR - KAYSERİ ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD. NO:68 MELİKGAZI - KAYSERİ / TÜRKİYE has an OCCUPATIONAL HEALTH and SAFETY MANAGEMENT SYSTEM which fulfills the requirements of the TS 18001:2008										
Belge kapsamı Ek'te verilmiştir		Scope of the certificate is given in annex										
		<table border="1"><tr><td>Belge No / Certificate No</td><td>OY-021-09/04</td></tr><tr><td>Belge Tarihi / Date of Certificate</td><td>04.03.2015</td></tr><tr><td>Geçerlilik Tarihi / Valid Until</td><td>04.03.2018</td></tr><tr><td>Revizyon Tarihi / Date of Revision</td><td>04.03.2015</td></tr><tr><td>İlk Belge Tarihi / Initial Certification Date</td><td>23.06.2004</td></tr></table>	Belge No / Certificate No	OY-021-09/04	Belge Tarihi / Date of Certificate	04.03.2015	Geçerlilik Tarihi / Valid Until	04.03.2018	Revizyon Tarihi / Date of Revision	04.03.2015	İlk Belge Tarihi / Initial Certification Date	23.06.2004
Belge No / Certificate No	OY-021-09/04											
Belge Tarihi / Date of Certificate	04.03.2015											
Geçerlilik Tarihi / Valid Until	04.03.2018											
Revizyon Tarihi / Date of Revision	04.03.2015											
İlk Belge Tarihi / Initial Certification Date	23.06.2004											
Bu belge belgelendirme şartlarına uygunluk sağlanıncaya kadar geçerlidir.	Bu belge, Türk Standardları Enstitüsü'nün kuruluşu hakkındaki 132 sayılı kanun uyarınca verilmiştir. This certificate is issued in accordance with the Law No. 132 establishing Turkish Standards Institution.	This certificate is valid provided that compliance with the certification requirement is maintained.										

OHSAS 18001

TSE

İŞ SAĞLIĞI ve GÜVENLİĞİ YÖNETİM SİSTEMİ BELGESİ
OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE
EK / ANNEX



Belge No / Certificate No: **OY-021-09/04**

Belgeli Kuruluş Adı, Adresi:

Name and Address of the Certified Organization:

Belge Kapsamı:

TS 18001:2008

- TELEFON KABLOLARI
- ALCAK, ORTA VE YÜKSEK GERİLİM ENERJİ KABLOLARI
- HAVA HATLARINDA KULLANILAN ÖRGÜLÜ BAKIR İLETKENLER
- EMAYE BOBİN TELİ
- FİBER OPTİK KABLOLAR
- HAVA HATLARINDA KULLANILAN ALÜMİNYUM İLETKENLER
- DATA KABLOLARI
- FİBER OPTİK KABLO AKSESUARLARI
- HAVA HATLARINDA KULLANILAN ALÜMİNYUM İLETKENLİ KABLOLAR
- DATA KABLOLARI AKSESUARLARI
- BAKIR FİLMASIN
- ALÜMİNYUM FİLMASIN
- GRANÜL ÜRETİM
- BAKIR TEL
- ALÜMİNYUM TEL
- ÇELİK ÖZLÜ ALÜMİNYUM İLETKENLER
- OPGW FİBER OPTİK KORUMALI İLETKEN TASARIM VE ÜRETİMİ



Belge Tarihi / Date of Certificate: **04/03/2015**

HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş.
MERKEZ: ERCİYES MAH. HES CAD. NO:22
HACILAR - KAYSERİ
ŞUBE: ORGANİZE SANAYİ BÖLGESİ 20.CAD.
NO:68 MELİKGAZİ -
KAYSERİ / TÜRKİYE

Scope of the Certificate:

TS 18001:2008

- DESIGN AND PRODUCTION OF
- TELEPHONE CABLES
- LOW, MEDIUM AND HIGH VOLTAGE POWER CABLES
- STRANDED COPPER CONDUCTOR FOR OVERHEAD LINES
- ENAMELLED COPPER WIRE
- FIBER OPTIC CABLES
- ROUND WIRE CONCENTRIC LAY OVERHEAD ELECTRICAL STRANDED ALUMINIUM CONDUCTORS
- LAN CABLES
- FIBER OPTIC CABLE ACCESSORIES
- ROUND WIRE CONCENTRIC LAY OVERHEAD ELECTRICAL STRANDED ALUMINIUM CONDUCTORS CABLES
- LAN CABLES ACCESSORIES
- COPPER ROD
- ALUMINIUM ROD
- GRANULE PRODUCTION
- COPPER WIRE
- ALUMINIUM WIRE
- STEEL CORE ALUMINIUM CONDUCTORS
- OPGW OPTICAL GRAUND WIRE



PRODUCTS

- LV POWER CABLES
- LSOH CABLES
- MV & HV POWER CABLES
- SOLAR CABLES
- ALUMINUM CONDUCTORS
- OPGW CONDUCTORS
- FIBER OPTIC CABLES
- COPPER TELECOMMUNICATION CABLES
- DATA CABLES
- ENAMELLED COPPER & ALUMINUM BOBBIN WIRES



ANNUAL PRODUCTION CAPACITY

Copper rod	60,000	ton
Aluminium rod	50,000	ton
Energy Cable	47,000	Cu-ton
	10,000	Al-ton
Aluminium Conductor	25,000	Al-ton
Enamelled Copper Wire	6,000	ton
Telecommunication Cable	10,000	mcm
Fiber Optic Cable	1,200,000	fiber-km

COPPER MELTING PLANT EQUIPMENT LIST (PRODUCTION)

EQUIPMENT	COUNT	DESCRIPTION
ROTATING THOMAS FURNACES	2	40000 ton/year
ELECTROLYSYS PLANT	2	FOR 99.99% Cu-CATHODE PRODUCTION , 30000 ton/year
OUTOKUMPU MELTING & CASTING PLANT	5	COPPER ROD PRODUCTION 55000 ton/year



ALUMINUM & COPPER ROD / WIRE PRODUCTION PLANT



**ALUMINUM ROD / WIRE
EQUIPMENT LIST
(PRODUCTION)**

EQUIPMENT	COUNT	DESCRIPTION
ALUMINUM ROD LINE	2	64000 ton/year
ALUMINUM WIRE DRAWING MACHINE	5	32000 ton/year
RIGID STRANDING MACHINE	4	30000 ton/year
TUBULER STRANDING MACHINE	3	5000 ton/year
1250 MM BUNCHING STRADING MACHINE	1	2000 ton/year
2000 MM BUNCHING STRADING MACHINE	1	10000 ton/year
INSULATION LINE	2	70000 km/year
OPGW STRANDING LINE	1	3650 km/year
CORE STRANDING LINE	1	15000 km/year

COPPER ELECTROLYSIS PLANT



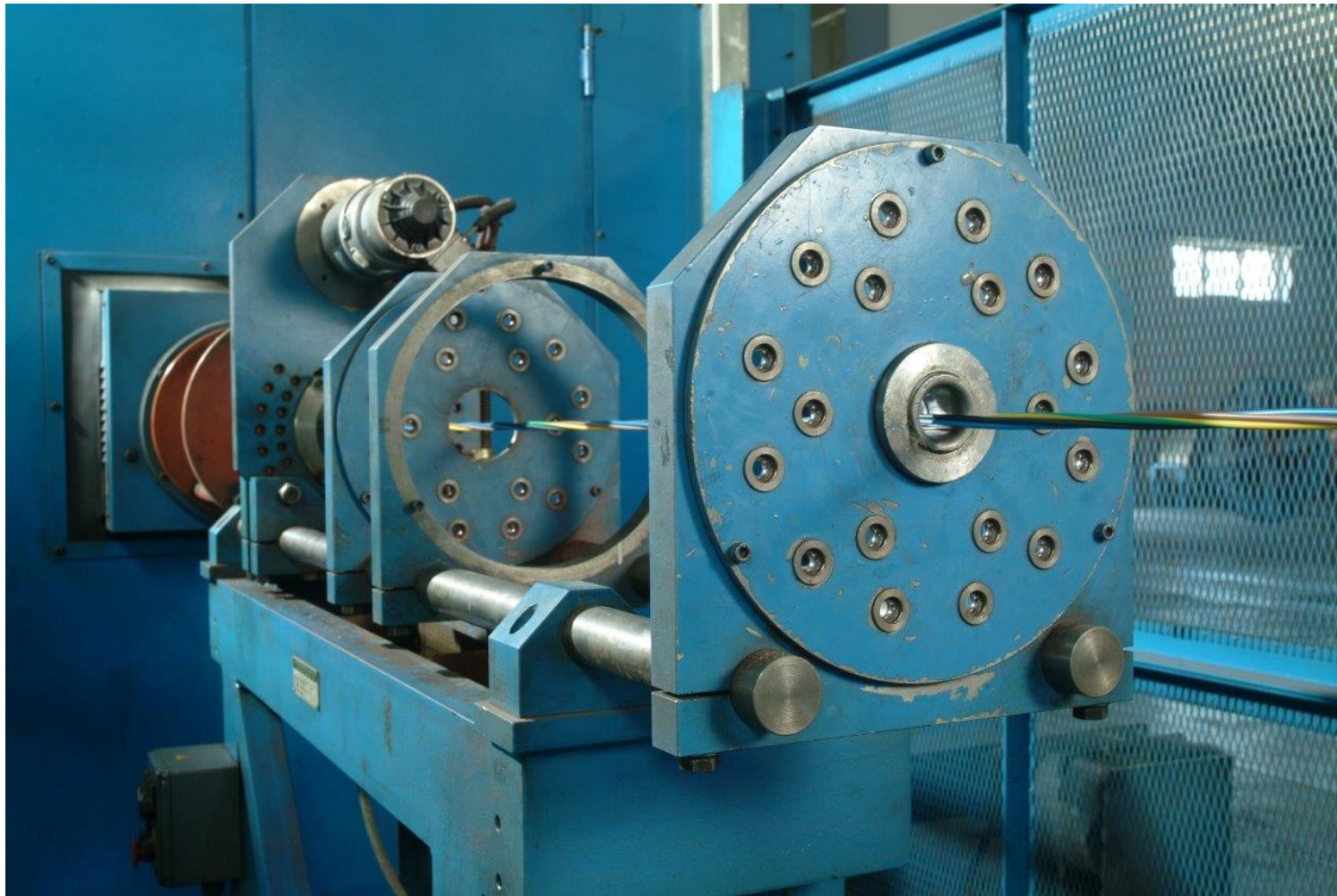
TEST EQUIPMENT FOR COPPER & ALUMINUM LABORATORY

EQUIPMENT	COUNT	DESCRIPTION
ELONGATION/STRENGTH	1	LLOYD 5 KN
ELONGATION/STRENGTH	1	LLOYD 30 KN
MICROOHMMETER	1	SEFELEC 3 mOhm - 30 kOhm
METALS ANALYZER	1	THERMO ARL 3460
DIGITAL SCALE	1	BASTER 30 KG
DIGITAL SCALE	1	CAS 420 gr
MICROMETER(Dijital)	1	MITUTOYO 0-25 mm.
COMPASS(Dijital)	1	MITUTOYO 0-150 mm.
COMPASS(Mechanics)	1	MITUTOYO 0-150 mm.
METER	1	INOX 0,5-1000 mm.
ELONGATION/STRENGTH	1	ZWICK 50KN
CONDUCTOR TENSIONING DEVICE (TEAR OFF)	1	MEKOSAN 500KN
FURNACE	1	HERATHERM 250 ° C
MULTIMETER	1	FLUKE - 115
CAPACITANCEMETER	1	TT T-ECHNI-C VC6013 2000 µF- 200 Pf
TORSION DEVICE	1	HES
TEST SAMPLE CUTTER	1	ZWICK
THERMOMETER	1	BARIGO
CABLE GEOMETRY ANALYSIS SYSTEM(SIZE MEASUREMENT)	1	MIKRO SISTEM
LABELLING MACHINE	1	COUTH
INSULATION TESTER	1	MEGGER MIT 1020/2 10kV

TEST EQUIPMENT FOR CHEMISTRY LABORATORY

EQUIPMENT	COUNT	DESCRIPTION
DIGITAL SCALE	1	METTLER TOLEDO (210 g)
OVEN	1	ELEKTROMAG - 300 °C
SPECTROMETER	1	ARL-3460
OXYGEN DETERMINATOR	1	LECO
MICROSCOPE	1	
CARBON BLACK CONTENT TESTER	1	
MELT FLOW INDEX	1	
CONE PENETRATION	1	HERZOG
FLASH POINT (OPEN CUP)	1	HERZOG
DROP POINT	1	HERZOG
MOISTURE DETERMINATION	1	PHOTOVOLT / MEDDLER
COLOUR COMPERATOR	1	STANHOPE - SETA
FURNACE	1	ELEKTROMAG - 1200 °C
COMPASS	1	

POWER CABLES



POWER CABLE EQUIPMENT LIST (PRODUCTION-1)

EQUIPMENT	COUNT	DESCRIPTION
M85 WIRE DRAWING MACHINE (WITH ANNEALING)	4	NIEHOFF INLET DIAMETER 8 mm.
MMH16 WIRE DRAWING MACHINE (WITH ANNEALING)	1	NIEHOFF (16 WIRES)
MMH16 WIRE DRAWING MACHINE (WITH ANNEALING)	1	FRIGECO (16 WIRES)
MMH14 WIRE DRAWING MACHINE (WITH ANNEALING)	1	NIEHOFF (14 WIRES)
M30 WIRE DRAWING MACHINE (WITH ANNEALING)	1	NIEHOFF - 630 mm.
DRUM TWISTER	3	MFL - FOR DRUM SIZE : 2500 mm. SUITABLE, KABMAK 2600 MM CORTINOVIS - FOR DRUM SIZE : 3600 mm. SUITABLE
CABLE ARMOURING MACHINE	6	FLAT TAPE & CONCENTRIC WIRES or SHIELDING
OUTER SHEATING (JACKETING) LINE	8	WITH 2 EXTRUDER FOR DOUBLE OPERATION TANDEM
OUTER SHEATING (JACKETING) LINE	1	ONE EXTRUDER (150 mm dia.)
PACKING MACHINE	1	VARIOUS TYPES
BUILDING WIRE PACKAGING MACHINE	6	SKALTEK (500m/min-700m/min)
PVC COMPOUNDING & GRANULATING PLANT	4	BUSS
PVC CARRYING SYSTEM TO THE PLANT	19	MOTAN
RIGID STRANDING MACHINE	2	1+6+12+18 WIRES DRUM SIZE 560 mm. 1+6+12+18+24 WIRES DRUM SIZE 630 mm.
INSULATION LINE	1	SUITABLE FOR DOUBLE LAYER & STRIP
INSULATION LINE	1	Rosendahl (for XLPE Prod. 3 extruder)

POWER CABLE EQUIPMENT LIST (PRODUCTION-2)

EQUIPMENT	COUNT	DESCRIPTION
HIGH SPEED INSULATION LINE WITH 3 EXTRUDER	2	NEXTROM 1200 m/min (NYA)
DOUBLE TWIST BUNCHING MACHINE	5	DRUM SIZE . 560-800 mm. NIEHOFF & SETIC
DOUBLE TWIST BUNCHING MACHINE	3	LESMO FOR CORE STRANDING (1600mm-1800mm) PRATECH FOR CORE STRANDING (1250mm)
DOUBLE TWIST BUNCHING MACHINE	3	LESMO (1800mm) , PRATECH, CORTINOVIS (1250mm) FOR CONDUCTOR STRANDING
CV LINE 66, 154 & 220 kV (XLPE) CV LINE 6 - 400 kV (XLPE)	3	MAILLEFER
POWDERING MACHINE FOR ENERGY CABLE	12	HES & MIKRONIX
INK-JET PRINTER	22	IMAGE - ALPHAJET
HOT STAMPING MACHINE (WITHOUT FOIL)	2	GNATA FILIPPO
NYM PACKAGING MACHINE	3	PS 470/16 - ITALY/SKALTEK
NYA PACKAGING MACHINE	4	SKALTEK/DOMEKS
MİKA TAPE MACHINE	4	Altec & frekans machine&GMM
PRINTING MACHINE ON THE INSULATION	4	MEDEK & SCHORNER

**POWER CABLE
EQUIPMENT LIST
(LV CABLES TEST EQUIPMENT-1)**

EQUIPMENT	COUNT	DESCRIPTION
A.C. TEST TRANSFORMER	1	SÖNMEZ (15 kV)
MEGAOHMMETER	1	GENERAL RADIO (10 T.ohm)
MULTIMETER	1	FLUKE - 77
CAPACITANCEMETER	1	CHY 15 (20 mF - 200 pF)
DIGITAL SCALE	1	METTLER TOLEDO
ELONGATION/STRENGTH	1	ZWICK ROELL (Üst: 2,5kN ve Alt: 50 kN)
OVEN	3	HERAEUS - NÜVE - HERAEUS (250 °C)
FREEZER	1	SANYO (85 °C)
PROJECTOR	1	MITUTOYO (10x - 20x - 100x)
COMPASS	3	MITUTOYO
MICROMETER	1	MITUTOYO
DIELECTRIC STRENGTH	1	CEAST (60 kV)
INSULATION RESISTANCE	1	MEGGER (250 V - 500 V - 1000 V - 2500 V - 5000 V)
OIT DSC 92	1	SETARAM
WEIGHT MASS SET	1	METROSAN
MICROOHMMETER	1	SEFELEC (3 mOhm - 30 kOhm)
DC TEST TRANSFORMER	1	BAUR 25 kV
DIAMETER MEASURING DEVICE	1	BETA LASERMIKE (0.2 mm - 4.0 mm)
D.C. RESISTANCE TABLE	1	SEFELEC

POWER CABLE EQUIPMENT LIST (LV CABLES TEST EQUIPMENT-2)

EQUIPMENT	COUNT	DESCRIPTION
DIGITAL SCALE	1	BASTER (30 kg)
WATER TANK	1	HES (100°C)
TEST SAMPLE CUTTER	1	BRAUER
THERMOMETER, HYGROMETER and BAROMETER	1	BARIGO
PIN GAUGE SET	1	MITUTOYO
SMOKE OPACITY ROOM	1	IEC 61034 HES
FLAME RETARDANCY TEST SYSTEM	1	DONGGUAN JEN TEST EQUIPMENT
FIRE RETARDANCY ROOM AND APPARATUS	1	IEC 60332-3 FTT
FIRE RESISTANT TEST SYSTEM	1	IEC 60331 FTT
MEASUREMENT OF COMBUSTION GASES	1	IEC 60754 FTT
REFRANCE RESISTANCE for CALIBRATION	1	AESA
DC TEST TRANSFORMER	1	BAUR, 50 kV
AC/DC HIPOT (TRANSFORMER)	1	HIPOTRONICS, 10 kV AC / 25 kV DC
OXYGEN INDEX TEST SYSTEM	1	ASTM D2863 FTT

POWER CABLE EQUIPMENT LIST (MV & HV CABLES TEST EQUIPMENT-1)

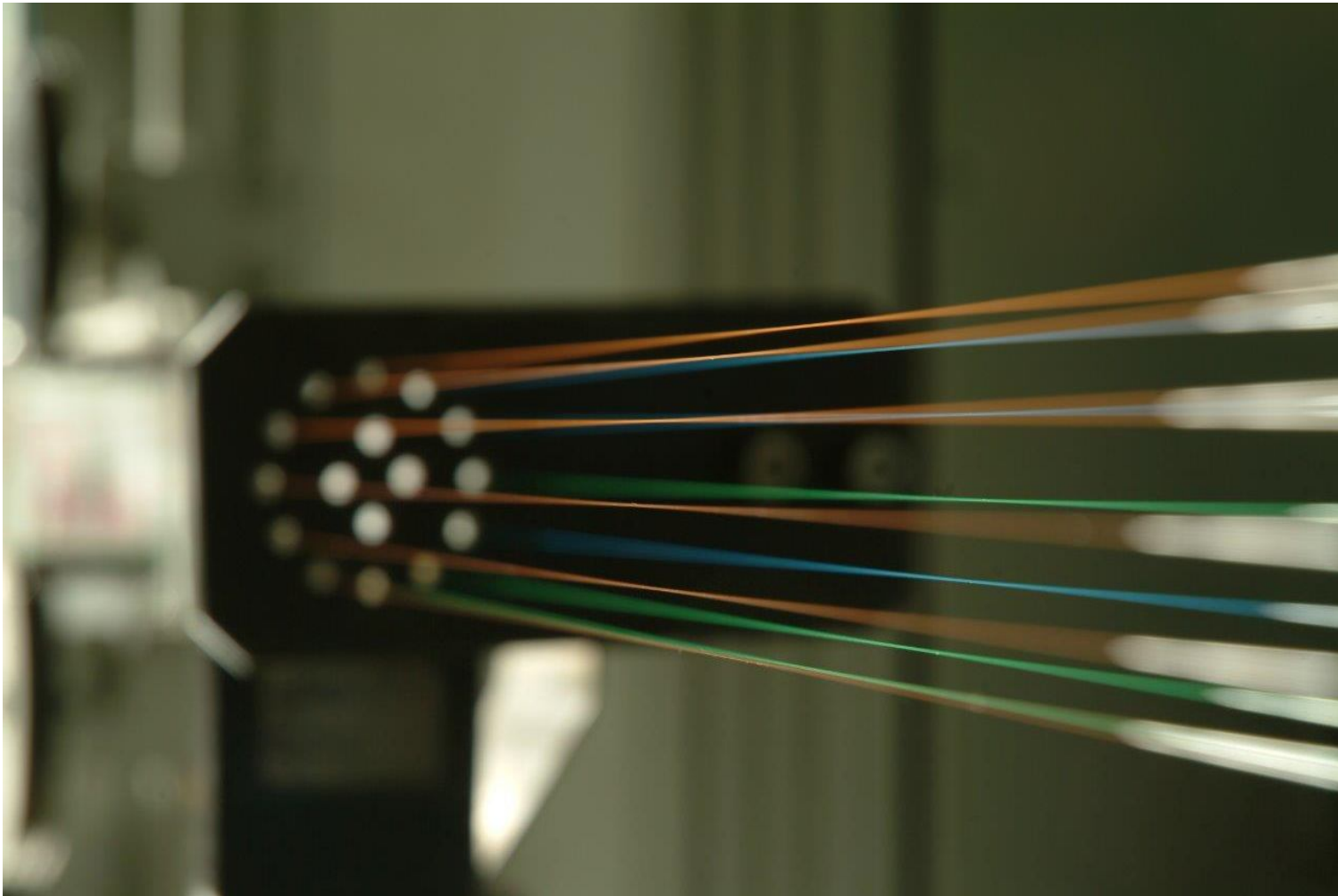
EQUIPMENT	COUNT	DESCRIPTION
A.C. TEST TRANSFORMER	1	HIPOTRONICS 75 kV (REZONANS)
VACUUM FURNACE	1	THERMO SCIENTIFIC 250 °C
DC TRANSFORMER AND FAULT LOCATOR	1	BAUR, 150 kV
FAULT LOCATOR	1	OMICRON MPD600
DIELECTRIC DISSIPATION FACTOR	1	TETEX
MICROOHMMETER (THERMOCOUPLE)	1	SEFELEC 3 mOhm - 30 kOhm
WINDING RESISTANCE (THERMOCOUPLE)	1	RAYTECH WR14
HEATING CYCLE TEST	1	HES
WATER PENETRATION TEST	3	HES
A.C. TEST TRANSFORMER	1	HIPOTRONICS 350 kV (REZONANS)
PARTIAL DISCHARGE MEASUREMENT SYSTEM	1	HIPOTRONICS DDX-7000
FAULT LOCATOR	1	HIPOTRONICS
IMPULSE JENERATOR	1	HAEFELY DIAS 733 (1200 kV)
HEATING CYCLE TEST	1	SÖNMEZ (6,5kA)
HEATING CYCLE TEST	1	HIPOTRONICS (5kA)
A.C. TEST TRANSFORMER	1	HIPOTRONICS 300 kV
WATER TERMINATION	1	HAEFELY TYPE 218
CABLE PEELING TOOL	2	HIVOTEC S125 / MAKRO
ELONGATION/STRENGTH	1	ZWICK 0,5kN

POWER CABLE EQUIPMENT LIST (MV & HV CABLES TEST EQUIPMENT-2)

EQUIPMENT	COUNT	DESCRIPTION
CABLE GEOMETRY ANALYSIS SYSTEM	1	HAMA MICRO SYSTEM
LABELLING MACHINE	1	SIC
FURNACE	1	THERMO SCIENTIFIC 250 °C
FURNACE	1	THERMO HERAUS 250 °C
THERMOMETER	1	BARIGO
MICROSCOPE	1	NIKON ECLIPSE 80i
ELECTRONIC SCALE	1	PRESICA (320gr)
ELECTRONIC SCALE	1	METTLER TOLEDO (320 g)
ELECTRONIC SCALE	1	BASTER (30kg)
DIGITAL CALIPER	2	MITUTOYA
SILICON BATH	2	HES
MICROMETER	1	MITUTOYA
PARTIAL DISCHARGE MEASUREMENT SYSTEM	2	OMICRON MPD600
PD CALIBRATOR	1	OMICRON
PD CALIBRATOR	1	HIPOTRONICS
INSULATION TESTER	1	MEGGER 10 kV
RESISTANCE MEASUREMENT	1	AESA 8135 (45,27 mOhm)
HEAT RECORDER	1	JUMO
HILTI	1	HIVOTEC
PEELING TOOL	1	HIVOTEC
Tool for Preparation of HV Cables	2	HIVOTEC & ALROC
CARBON BALACK TESTER	1	DONGGUAN LIYI
DRY-BLOCK CALIBRATOR	1	FLUKE 9103
HEATING PLATE WITH MAGNETIC STIRRER	1	IKA C-MAG
DATA LOGGER	2	EBRO 300



FIBER OPTIC CABLES





FIBER OPTIC CABLES EQUIPMENT LIST (PRODUCTION)

EQUIPMENT	COUNT	DESCRIPTION
TIGHT COATING MACHINE	1	MAILLEFER
FIBRE COLORING MACHINE	2	MEDEK & SCHÖRNER 2000 m/dak+2500 m/dak
BUFFER INSULATION LINE	2	ROSENDAHL - FRISCH 300 m/min
SZ STRANDING LINE WITH POLYESTER TAPE & ARAMID YARN	1	ROSENDAHL - FRISCH 60 m/min
SZ STRANDING LINE WITH POLYESTER TAPE & ARAMID YARN	1	GMM - 60M/DAK 288 FİB
SHEATING LINE WITH CORRUGATOR, ARAMID, PRINTING MAC.	3	WATSON & HES MAKİNA&GMM 90 m/min
SHEATING LINE 80 MM	1	GMM 120 m/min
CABLE PRINTING MACHINE(PACKIGING MACHINE)	2	GMM 100 m/min



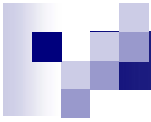
FIBER OPTIC CABLES EQUIPMENT LIST (TEST EQUIPMENT-1)

EQUIPMENT	COUNT	DESCRIPTION
OTDR	3	ANRITSU 1310/1550 nm
OTDR	1	HP-AGILENT 1310/1550 nm
OTDR	1	ANRITSU 850/1300 nm
OTDR	1	ANRITSU 850/1300-1310/1550 nm Hybrid
OPTIC POWER METER	1	EXFO
FIBER OPTIC LIGHT SOURCE	1	EXFO 1310/1550 nm
PATCH CORD RL REFLECTION METER	1	EXFO BRT-320A
FIBER LENGTH MEASURING SYSTEM	1	ROSENDHAL (RUMS 1)
CD, PMD and FIBER STRAIN TEST SYSTEM	1	PERKIN ELMER CD 400
SPECTRAL ATT., MFD and CUT-OFF TEST SYSTEM	1	PERKIN ELMER WS 500
FIBER MULTIPLEXER	1	JBR SX8 OPTICAL SWITCH
FIBER SPLICER	2	FUJIKURA 40S
FIBER ALIGNMENT DEVICE	2	AESA CORTAILLOD
CABLE GEOMETRY ANALYSIS SYSTEM	1	iVISION
COMPASS	2	MITUTOYO - VIN
MICROMETER	1	MITUTOYO



FIBER OPTIC CABLES EQUIPMENT LIST (TEST EQUIPMENT-2)

EQUIPMENT	COUNT	DESCRIPTION
DIGITAL SCALE	1	PRECISA INS. AG 0.5-1200 gr d:0.01g
TENSILE STRENGTH TEST SYSTEM	1	HES 100m ; 7000N
REPEATED BENDING TEST SYSTEM	1	HES
TORSION TEST SYSTEM	1	HES, 2 m
IMPACT TEST TEST SYSTEM	1	HES
CRUSH TEST TEST SYSTEM	1	HES, 700kg
BENDING TEST SYSTEM	1	HES
TEMPERATURE CYCLING ROOM	1	ERBAY -40 ° C - +80 ° C
FURNACE	1	HERAEUS THERMO 250 ° C
FREEZER	1	UĞUR -55 °C
DIGITAL THERMOMETER	1	FLUKE 51II
DIGITAL MULTIMETER	1	FLUKE 287



COPPER TELECOMMUNICATION CABLES



COPPER TELECOMMUNICATION CABLES EQUIPMENT LIST (PRODUCTION-1)

EQUIPMENT	COUNT	DESCRIPTION
M85 WIRE DRAWING MACHINE (WIH ANNEALING)	1	NIEHOFF INLET DIAMETER 8mm.
FULL AUT.(SKIN/FOAM/SKIN & FOAM SKIN) INSULATION LINE COMPLETE WITH MT 200/RDA200 WIRE DRAWING MACHINE	1	NOKIA MAILLEFER - SUITABLE FOR PHYSICAL FOAMING
FULL AUT.(SKIN/FOAM/SKIN & FOAM SKIN) INSULATION LINE COMPLETE WITH MT 200/RDA200 WIRE DRAWING MACHINE	1	NEXTROM - SUITABLE FOR PHYSICAL FOAMING
FULL AUT.FOAM/SKIN INSULATION LINE COMPLETE LINE COMPLETE WITH MT 200/RDA200 WIRE DRAWING MACHINE	6	ROSENDHALL - SUITABLE FOR CHEMICAL FOAMING
SZ GROUP STRANDING MACHINE (25 PAIR/14 QUAD&PAIR TYPE)	2	EACH 7500 WIRE*KM/DAY CAPACITY
SZ GROUP STRANDING MACHINE (10 PAIR/5 QUAD/14 QUAD TYPE)	1	EACH 4000 WIRE*KM/DAY CAPACITY
SZ GROUP STRANDING MACHINE (12 PAIR/5 QUAD/14 QUAD TYPE)	2	EACH 4000 WIRE*KM/DAY CAPACITY
SZ GROUP STRANDING MACHINE (14 PAIR/5 QUAD/14 QUAD TYPE)	1	EACH 4000 WIRE*KM/DAY CAPACITY
QUADDING MACHINE SETIC	3	DOUBLE TWIST TYPE
DRUM TWISTER	1	FOR DRUM SIZE : 1000 mm.
DRUM TWISTER	2	FOR DRUM SIZE : 1250 mm.
DRUM TWISTER	3	FOR DRUM SIZE : 1600 mm.

COPPER TELECOMMUNICATION CABLES EQUIPMENT LIST (PRODUCTION-2)

EQUIPMENT	COUNT	DESCRIPTION
DRUM TWISTER	1	FOR DRUM SIZE : 2200 mm.
DRUM TWISTER MACHINE UP TO 400 PAIRS CORES	1	FOR DRUM SIZE : 2200 mm.
WIRE ARMOURING MACHINE	1	FOR DRUM SIZE : 1600 mm.
OUTER SHEATING (JACKETING) LINE	4	SUITABLE FOR TELECOMMUNICATION CABLE SHEATING
PACKING MACHINE	2	VARIOUS TYPES
JELLY FILLING MACHINES	9	JELLY FILLING AT DRUM TWISTER LINES
JELLY FILLING MACHINES	2	CENTRAL JELLY FILLING SUITABLE TO FEED ALL DRUM TWISTER LINES
SLITTING MACHINE FROM PSA1000	1	FOR AL. FOIL, POLYSTER TAPE
SLITTING MACHINE FROM CHINA	1	FOR STEEL TAPE
SLITTING MACHINE	1	POLYSTER TAPE
JELLY FILLING MACHINE FOR 2400 PAIRS	2	YAFA
TINNING MACHINE	1	FOR CONDUCTOR ANNEALING DRUM SIZE:560 mm

COPPER TELECOMMUNICATION CABLES EQUIPMENT LIST (TEST EQUIPMENT)

EQUIPMENT	COUNT	DESCRIPTION
FAULT LOCATOR	2	0 -16000 m.
MULTIMETER	2	AVO
ELONGATION/STRENGTH	1	ZWICK 1 - 10000 N
DECIBELMETER	1	SIEMENS 30 Hz - 120 KHz
CAPACITANCEMETER	1	CAPACITANCE METER 20 mF- 200 pF
LF TEST EQUIPMENT	3	MEA/6 14 - 1000 Hz
HF TEST EQUIPMENT	1	KPA//5 10 KHz - 10 MHz
HF TEST EQUIPMENT	1	AESA PHOENIX LF-HF 100 MHz 16 pairs
COMPASS	2	MITUTOYO 0 - 150 mm.
MANOMETER	1	MANOMETER 0-100 psi
MEGAOHMMETER	2	AVO 50 M.Ohm - 100 G.Ohm
PROJECTOR	1	NIKON 1 - 2000 MICRON
SCALE	1	METTLER 0.1 - 50 gr
THERMOMETER	1	0 - 50 °C
MICROOHMMETER	1	SEFELEC 3 mOhm - 30 kOhm

ENAMELLED COPPER & ALUMINUM BOBIN WIRES





ENAMELLED BOBIN WIRE EQUIPMENT LIST (PRODUCTION)

EQUIPMENT	COUNT	DESCRIPTION
ENAMELLING MACHINE	1	MAG (H6) - WITH 2 LINES - HORIZONTAL
ENAMELLING MACHINE	1	MAG (H5) - WITH 4 LINES - HORIZONTAL
ENAMELLING MACHINE	1	MAG (V6) - WITH 2 LINES - VERTICAL
ENAMELLING MACHINE	1	MAG (V6) - WITH 2 LINES - VERTICAL
ENAMELLING MACHINE	1	MAG (V7) - WITH 2 LINES - VERTICAL
ENAMELLING MACHINE	1	MAG (H3) - WITH 4 LINES - HORIZONTAL
ENAMELLING MACHINE	1	MAG (H3) - WITH 4 LINES - HORIZONTAL
ENAMELLING MACHINE	1	MAG (H5) - WITH 4 LINES - HORIZONTAL
ENAMELLING PACKETING ROBOT	1	INTEGRO (YASKAWA)

ENAMELLED BOBIN WIRE EQUIPMENT LIST (TEST EQUIPMENT)

EQUIPMENT	COUNT	DESCRIPTION
ELONGATION/STRENGTH	1	THE HOUNSFILD 5 kN
PEEL TESTER	1	HATEL
MICROMETER	1	MİTUTOYO
SPRINGINESS (SPRING BACK)	3	HATEL&RIGON&RIGON
BREAKDOWN VOLTAJ TEST DEVICE	2	HATEL&RIGON
JERK TEST	1	
MICROOHMMETER	1	MEGGER
MIKROSCOPE	1	VISION
MANDREL TEST	1	HES
MAGNIFYING GLASS	1	
HEAT - SHOCK(OVEN)	2	NÜVE & HERAEUS
CUT - THROUGH	1	HATEL
TANGENT DELTA	2	P&F,MAG
DC. TEST TRANSFORMER	1	
PARAFFIN TEST DEVICE	1	P&F
MICROOHMMETER	1	BURSTER
CONTINUITY OF INSULATION(High voltaj tester)	1	RIGON
SOLDERABILITY TEST DEVICE	1	
ABRASION RESISTANCE	1	HATEL
RESISTANCE TO ABRASION	1	ZME



INTERNATIONAL CERTIFICATES

LABORATORY ACCREDITATION CERTIFICATE



TÜRK AKREDİTASYON KURUMU

AKREDİTASYON SERTİFİKASI

Deney Laboratuvarı olarak faaliyet gösteren,

HES HACILAR ELEKTRİK SANAYİ VE TİCARET A.Ş.
Hes Hacılar Elektrik Sanayi Ve Ticaret A.Ş.
Deney Laboratuvarı
Erciyes Mahallesi Hes Cad. No:22 Hacılar
38210 KAYSERİ / TÜRKİYE

TÜRKAK tarafından yapılan denetim sonucunda TS EN ISO/IEC 17025:2012 Standardına göre Ek'te yer alan kapsamlarda akredite edilmiştir.

Akreditasyon No : AB-0585-T

Akreditasyon Tarihi : 16 Kasım 2012

Bu Sertifika, yukarıda açık adı ve adresi yazılı Kuruluşun TS EN ISO/IEC 17025:2012 Standardına, ilgili Yönetmelik ve Tebliğlere uygunluğunu sürdürmesi halinde, **15 Kasım 2016** tarihine kadar geçerlidir.



Dr. H. İbrahim ÇETİN
Genel Sekreter Vekili

LABORATORY ACCREDITATION CERTIFICATE

Akreditasyon Sertifikası Eki (Sayfa 1/1)

Akreditasyon Kapsamı

 Test TS EN ISO/IEC 17025 AB-0585-T	HES HACILAR ELEKTRİK SANAYİ VE TİCARET A.Ş. Hes Hacılar Elektrik Sanayi Ve Ticaret A.Ş.	
	Akreditasyon No: AB-0585-T Revizyon No: 00 Tarih: 16 Kasım 2012	
Deney Laboratuvarı		
Adresi : Erciyes Mahallesi Hes Cad. No:22 Hacılar 38210 KAYSERİ / TÜRKİYE		Tel : 0 352 207 45 00 Faks : 0 352 442 25 50 E-Posta : karayefatih@yahoo.com Website : www.hes.com.tr
Deneyi Yapılan Malzemeler / Ürünler	Deney Adı	Deney Metodu (Ulusal, Uluslararası standartlar, işletme içi metodlar)
ORTA GERİLİM ENERJİ KABLOLARI-ELEKTRİK EL TİP DENEYLERİ	Kısmi Boşalma Deneyi	TS IEC 60502-2 Madde 18.1.4
	Bükme Deneyi ve Bunu Takip Eden Kısmi Boşalma Deneyi	TS IEC 60502-2 Madde 18.1.3 ve Madde 18.1.4.
	6/10 kV ve Daha Büyük Olan Kablolarda Tan Değerinin Ölçülmesi	TS IEC 60502-2 Madde 18.1.2 ve Madde 18.1.5
	Isıtma Çevrimi ve Bunu Takip Eden Kısmi Boşalma Deneyi	TS IEC 60502-2 Madde 18.1.6
	Darbe Gerilimine Dayanım ve Bunu Takip Eden Gerilim Deneyi	TS IEC 60502-2 Madde 18.1.7
	4 Saat Süreli Yüksek Gerilim Deneyi	TS IEC 60502-2 Madde 18.1.8
	Yarı İletken Siperin Eskitmeden Önceki ve Sonraki Öz Dirençlerinin Ölçülmesi	TS IEC 60502-2 Madde 18.1.9

KAPSAM SONU



Dr. H. İbrahim ÇETİN
Genel Sekreter Vekili

ACHILLES CERTIFICATE



Certificate of Qualification

This is to certify that

**HES HACILAR ELEKTRIK SAN. VE
TIC. A.S**

Supplier Number: 116554

*Is now fully registered as a supplier in the Achilles Power & Tech Supply chain
management community for the following products/services*

3.7.6 Fibre Optic Cable

3.7.25 Cable

3.7.23 Conductors

3.7.30 Wire

Chris Hornung
Group Operations Director
Achilles Group Limited

Expiry Date: 17 December 2016



Achilles Information Limited
30 Western Avenue, Milton Park, Abingdon, OX14 4SH, United Kingdom
T: Sales +421-2-2099-2320, Support +421-2-2099-2426 F: +421 (0)254 41 68 07 E:
PowerandTech@achilles.com www.achilles.com

KEMA TYPE TEST CERTIFICATE



Type test Certificate of
complete type tests

HES HACILAR ELEKTRİK SAN. VE TİC. A.Ş.

Kayseri, Turkey

has successfully passed the type test sequence on a

single-core power cable

Type: N2XSYR(A)Y

Rating: 18/30 (36) kV – 1x630 mm² – Cu – XLPE

The test object passed the required clauses of

IEC 60502-2

The test results are recorded in Certificate No.

TIC 1066-12

This Certificate is issued on 4 February 2013

KEMA Nederland B.V.

S.A.M. Verhoeven

Director Testing, Inspections & Certification The Netherlands

Copyright © KEMA Nederland B.V.

Please note that this document has been issued for information purposes only, and that the original bound and sealed paper copy of the Certificate including the results of the tests of the apparatus will prevail. This document does not imply that KEMA has certified or approved any apparatus other than the specimen tested.

Experience you can trust.

KONCAR CERTIFICATES - 1

KONČAR INSTITUT za elektrotehniku		Služba za certificiranje proizvoda SCERT Certification Department SCERT		17000 - HAA 	
CERTIFIKAT CERTIFICATE					
Broj / No: VNO 20160001					
Proizvod: Product:		Srednjenaponski energetski kabel s XLPE izolacijom i PE plaštem s vodonepropusnom izvedbom električne zaštite. Nazivni napon 12/20 (24) kV Medium voltage power cable with XLPE insulation, PE sheath and screen implementation that ensures longitudinal water impermeability. Rated voltage 12/20 (24) kV.			
Tip/model: Type/model:		NA2XS(F)ZY, 12/20 (24) kV			
Komercijalni naziv: Brand name:		Srednjenaponski energetski kabel s XLPE izolacijom i PE plaštem Medium voltage power cable with XLPE insulation and PE sheath			
Podnositelj zahtjeva: Applicant:		TIM Kabel d.o.o. Savska cesta 103, 10 360 Sesvete, Hrvatska / Croatia			
Proizvođač: Manufacturer:		HES HACILAR ELEKTRİK SANAYİ VE TİCARET A.Ş. ERCİYES MAH. HES CAD. NO 22 Hacilar-KAYSERİ, Turska / Turkey			
Primijenjene norme: Related standards:		HRN HD 620 S2:2010, Poglavlje 10, Sekcija C (HD 620 S2:2010, Part 10, Section C)			
Broj i datum izvješćaja o ispitivanju: Test report No and date of issue:		Izvješćaj o tipskom ispitivanju br. 251841/01-16 od 05.01.2016. Type test report No. 251841/01-16 from 05.01.2016.			
Ispitni izvješćaj izdan od: Test report issued by the:		Elektrotehnički laboratorij, Ankara / Turska Electrotechnical laboratory, Ankara / Turkey			
ZAKLJUČAK: Ovim se potvrđuje da je tip proizvoda sukladan sa zahtjevima gore navedenih normi.					
CONCLUSION: The sample of the product is in accordance with requirements of the standard listed above.					
Napomena: Ovaj dokument je potvrda o sukladnosti ispitnog uzorka. Za sukladnost svakog proizvoda identične tipike oznake kao i upitnog uzorka odgovoran je podnositelj zahtjeva.					
Remark: This document is a certificate of conformity of the tested sample. The applicant is responsible for conformity of product with the same type/model name.					
Rok valjanosti: Period of validity:		Mjesto i datum: Place and date:			
20.01.2019.		Croatia, Zagreb, 20.01.2016.			
Ocjenitelj:  Josip Posak, dipl.ing.		M.P. KONČAR - Institut za elektrotehniku d.d. ZAGREB		Upravitelj SCERT-a Head of SCERT Department  Sandra Kozak, dipl.ing. MBA	
KONČAR - Institut za elektrotehniku d.d. Služba za certificiranje proizvoda SCERT pp 202, 10062 ZAGREB, Fallerovo šetalište 22 Tel.: +385 1 365 5277 Fax: +385 1 365 5277 E-mail: scert@koncar.hr http://www.koncar-institut.hr/scert FC-3a-11					

KONCAR CERTIFICATES - 2

KONČAR
INSTITUT
za elektrotehniku

Služba za certificiranje proizvoda SCERT
Certification Department
SCERT



CERTIFIKAT

CERTIFICATE

Broj / No: VNO 20160002

Proizvod:
Product: Srednjenaponski energetski kabel s XLPE izolacijom i PE plaštem s vodonepropusnom izvedbom električne zaštite. Nazivni napon 12/20 (24) kV
Medium voltage power cable with XLPE insulation, PE sheath and screen implementation that ensures longitudinal water impermeability.
Rated voltage 12/20 (24) kV.

Tip/model:
Type/model: NA2XS(F)2Y, 12/20 (24) kV, 1x185/25mm²

Komercijalni naziv:
Brand name: Srednjenaponski energetski kabel s XLPE izolacijom i PE plaštem
Medium voltage power cable with XLPE insulation and PE sheath

Podnositelj zahtjeva:
Applicant: TIM Kabel d.o.o. Savska cesta 103,
10 380 Sesvete, Hrvatska / Croatia

Proizvođač:
Manufacturer: HES HACILAR ELEKTRİK SANAYİ VE TİCARET A.Ş.
ERCIYES MAH.HES CAD.NO:22 Hacilar-KAYSERİ, Turska / Turkey

Primijenjene norme:
Related standards: HRN HD 620 S2:2010, Poglavlje 10, Sekcija C
(HD 620 S2:2010, Part 10, Section C)

Broj i datum izvještaja o ispitivanju:
Test report No and date of issue: Izvještaj o tipskom ispitivanju br. 281841/01-16 od 05.01.2016.
Type test report No. 281841/01-16 from 05.01.2016.

Ispitni izvještaj izdan od:
Test report issued by the: Elektrotehnički laboratorij, Ankara / Turska
Electrotechnical laboratory, Ankara / Turkey

ZAKLJUČAK:
Ovime se potvrđuje da je tip proizvoda sukladan sa zahtjevima gore navedenih normi.

CONCLUSION:
The sample of the product is in accordance with requirements of the standard listed above.

Napomena:
Ovaj dokument je potvrda o sukladnosti ispitnog uzorka. Za sukladnost svakog proizvoda identične tipike oznake kao i ispitnog uzorka odgovoran je podnositelj zahtjeva.

Remark:
This document is a certificate of conformity of the tested sample. The applicant is responsible for conformity of product with the same type/model name.

Rok valjanosti:
Period of validity:

20.01.2019.

Mjesto i datum:
Place and date:

Croatia, Zagreb, 20.01.2016.

Ocjenitelj
Assessor

Josip Polak dipl.ing.

M.P.
Seal
KONČAR - Institut za
elektrotehniku d. d.
ZAGREB 12

Upravitelj SCERT-a
Head of SCERT Department

Sandra Kozak dipl.ing. MBA

KONČAR - Institut za elektrotehniku d.d.
Služba za certificiranje proizvoda SCERT
pp 202, 10002 ZAGREB, Falterovo šetalište 22

Tel.: +385 1 365 5277
Fax: +385 1 365 5277

E-mail: scert@koncar-institut.hr
<http://www.koncar-institut.hr/scert>

FC-Sa-11

KONCAR CERTIFICATES - 3

KONČAR INSTITUT za elektrotehniku	Služba za certificiranje proizvoda SCERT Certification Department SCERT	17085-1:2015 
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CERTIFIKAT

CERTIFICATE

Broj / No: VNO 20160002

Proizvod: Product:	Srednjenaponski energetski kabel s XLPE izolacijom i PE plaštem s vodonepropusnom izvedbom električne zaštite. Nazivni napon 12/20 (24) kV Medium voltage power cable with XLPE insulation, PE sheath and screen implementation that ensures longitudinal water impermeability. Rated voltage 12/20 (24) kV.
Tip/model: Type/model	NA2XS(F)2Y, 12/20 (24) kV, 1x185/25mm ²
Komercijalni naziv: Brand name:	Srednjenaponski energetski kabel s XLPE izolacijom i PE plaštem Medium voltage power cable with XLPE insulation and PE sheath
Podnositelj zahtjeva: Applicant:	TIM Kabel d.o.o. Savska cesta 103, 10 350 Sesvete, Hrvatska / Croatia
Proizvođač: Manufacturer:	HES HACILAR ELEKTRİK SANAYİ VE TİCARET A.Ş. ERCİYES MAH.HES CAD.NO 22 Hacilar-KAYSERİ, Turska / Turkey
Primijenjene norme: Related standards:	HRN HD 620 S2:2010, Poglavlje 10, Sekcija C (HD 620 S2:2010, Part 10, Section C)
Broj i datum izvješća o ispitivanju: Test report No and date of issue:	Izvješće o tipskom ispitivanju br. 281841/01-16 od 05.01.2016. Type test report No. 281841/01-16 from 05.01.2016.
Ispitni izvještaj izdan od: Test report issued by the:	Elektrotehnički laboratorij, Ankara / Turska Electrotechnical laboratory, Ankara / Turkey

ZAKLJUČAK:
 Osim se potvrđuje da je tip proizvoda sukladan sa zahtjevima gore navedenih normi.

CONCLUSION:
 The sample of the product is in accordance with requirements of the standard listed above.

Napomena:
 Ovaj dokument je potvrda o sukladnosti ispitnog uzorka. Za sukladnost svakog proizvoda identične tipike oznake kao i ispitnog uzorka odgovoran je podnositelj zahtjeva.
Remark:
 This document is a certificate of conformity of the tested sample. The applicant is responsible for conformity of product with the same type/model name.

Rok valjanosti: Period of validity:	Mjesto i datum: Place and date:
20.01.2019.	Croatia, Zagreb, 20.01.2016.

Ocjenitelj <i>[Signature]</i> Josip Prosek, dipl.ing.	M.P. Seal KONČAR - Institut za elektrotehniku d. d. Z A G R E B 12	Upravitelj SCERT-a Head of SCERT Department <i>[Signature]</i> Sanda Kocik, dipl.ing. MBA
---	--	--

KONČAR - Institut za elektrotehniku d.d. Služba za certificiranje proizvoda SCERT pp 202, 10002 ZAGREB, Polenovo šetalište 22 FD-Sa-15	Tel.: +385 1 365 5277 Fax: +385 1 365 5277	E-mail: scert@koncar-institut.hr http://www.koncar-institut.hr/scert
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VDE CERTIFICATES

VDE Prüf- und Zertifizierungsinstitut

GUTACHTEN MIT FERTIGUNGSÜBERWACHUNG CERTIFICATE OF CONFORMITY WITH FACTORY SURVEILLANCE

HES HACILAR ELEKTRİK
SANAYİ ve TİCARET A.Ş.
Erciyes Mh. Hes Cd. No. 22
38210 KAYSERİ
TURKEY

ist berechtigt, für ihr Produkt /
is authorized to use for their product

Kunststoffisoliertes Energieverteilungskabel Uo/U 3,6/6 kV- 20,8/36 kV
Distribution cable Uo/U 3,6/6 kV up to 20,8/36 kV

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



REG.-Nr. 8840 oder/and



oder/and VDE-REG.-Nr. 8840

REG.-Nr. 8840

Geprüft und zertifiziert nach /
Tested and certified according to

DIN VDE 0276-620 (VDE 0276-620):2010-11; HD 620 S2:2010, Teile 0,1 und 10-C
(in Anlehnung an / with reference to)

Befristet zum / valid until: 2018-12-31

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / Certification

M. Tschö
M. Tschö
VDE Zertifikate sind nur gültig bei Veröffentlichung unter:
VDE certificates are valid only when published on:

VDE

Aktenzeichen: 2175700-5230-0276 / 202563

File ref.:

Ausweis-Nr.: 40042828

Certificate No.

Weitere Bedingungen siehe Rückseite und Folgebblätter /
further conditions see overleaf and following pages

Offenbach, 2015-08-19

(letzte Änderung / updated: 2015-10-28)

<http://www.vde.com/zertifikat>
<http://www.vde.com/certificate>

Blatt 1
Page



VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. /
Certificate No. 40042828
Blatt /
Page 2

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder
HES HACILAR ELEKTRİK SANAYİ ve TİCARET A.Ş., Erciyes Mh. Hes Cd. No. 22, 38210 KAYSERİ, TURKEY

Aktenzeichen / File ref.
2175700-5230-0276 / 202563 / CC4 / LR

letzte Änderung / updated
2015-10-28
Datum / Date
2015-08-19

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Gutachtens mit Fertigungsüberwachung Nr. 40042828.
This supplement is only valid in conjunction with page 1 of the Certificate of Conformity with factory surveillance No. 40042828.

Kunststoffisoliertes Energieverteilungskabel Uo/U 3,6/6 kV- 20,8/36 kV
Distribution cable Uo/U 3,6/6 kV up to 20,8/36 kV

Typ(en) / Type(s)

(N)2XS(F)2Y 1x400/35 RM 18/30 kV

Nennspannung
Rated voltage

Uo/U 18/30 kV

Aufbau
Construction

nach DIN VDE 0276-620 (VDE 0276-620):2010-11
according to DIN VDE 0276-620 (VDE 0276-620):2010-11

Anforderungen

Requirements

nach DIN VDE 0276-620 (VDE 0276-620):2010-11
(ohne zweijährige Langzeitprüfung)
according to DIN VDE 0276-620 (VDE 0276-620):2010-11
(without two years long duration test)

Verwendungsbereich

Guide to use

Energieverteilungskabel für industrielle Anwendungen,
jedoch nicht im EVU-Bereich
Energy distribution cables for industrial applications,
not intended for public power distribution.

Firmenzeichen
Trademark

HES KABLO

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Fachgebiet CC4
Section CC4

VDE Prüf- und Zertifizierungsinstitut GmbH • Testing and Certification Institute

Merianstrasse 28, D-63069 Offenbach

Phone: +49 (0) 69 83 06-0
Telefax: +49 (0) 69 83 06-555



GOST CERTIFICATES

СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ В ОБЛАСТИ ПОЖАРНОЙ БЕЗОПАСНОСТИ
регистрационный № РОСС RU.И1238.04ЖРТО

**ПРИЛОЖЕНИЕ
К СЕРТИФИКАТУ СООТВЕТСТВИЯ**

№ АПБ.ТR.OC002.IL00001

Приложение №1
Перечень продукции, на которую распространяется действие сертификата соответствия

код ОК 005 (ОКП) код ТН ВЭД России	Наименование, типы, марки, модели однородной продукции, составные части изделия или комплексы	Обозначение документации, по которой выпускается продукция
35 3000 8544 60 000 0	Кабели силовые, с изоляцией из свитого полиэтилена (XLPE) и оболочкой из полиэтилена, с медными и алюминевыми жилами сечением от 1 до 3, сечением от 25 до 630 мм ² , номинальным напряжением от 3,5/6 кВ до 20,5/35 кВ, торговой марки «HES KABLON» марок: N2XS(F)L2Y, N2XS(F)2Y, N2XS2Y, NA2XS2Y, NA2XS(F)L2Y, NA2XS2Y, NA2XS(F)2Y;	Техническая документация изготовителя
35 3000 8544 60 000 0	Кабели силовые, с изоляцией из свитого полиэтилена (XLPE) и оболочкой из полиэтилена, с одной медной и алюминевыми жилами, сечением от 240 до 1000 мм ² , номинальным напряжением от 36/66 кВ до 89/154 кВ, торговой марки «HES KABLON» марок: N2XS(F)L2Y, N2XS2Y, NA2XS(F)L2Y, NA2XS2Y;	Техническая документация изготовителя

Руководитель
изготовителя (руководитель
цеха по сертификации)
(подпись, инициалы, фамилия)

Эксперт (эксперты)
(подпись, инициалы, фамилия)

А.А. Григорьев

Д.Л. Голубева

000107

СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ В ОБЛАСТИ ПОЖАРНОЙ БЕЗОПАСНОСТИ
регистрационный № РОСС RU.И1238.04ЖРТО

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ АПБ.ТR.OC002.IL00001

ЗАЯВИТЕЛЬ
«HES Hacilar Elektrik Sanayi ve Ticaret A.S.»
Адрес: Турция, Ерсиев Мах, Нез Сад, №: 22, 38210 Hacilar, Kayseri, Turkey.
Телефон: +903524422540, факс: +903524422550.

ИЗГОТОВИТЕЛЬ
«HES Hacilar Elektrik Sanayi ve Ticaret A.S.»
Адрес: Турция, Ерсиев Мах, Нез Сад, №: 22, 38210 Hacilar, Kayseri, Turkey.
Телефон: +903524422540, факс: +903524422550.

**ОГРН ПО
СЕРТИФИКАЦИИ**
Организация и изготовитель сертифицированы на соответствие требованиям стандарта ГОСТ Р 53315-2009, ГОСТ IEC 60332-1-2-2011.

**ПОДТВЕРЖДАЕТ, ЧТО
ПРОДУКЦИЯ**
Кабели силовые, с изоляцией из свитого полиэтилена (XLPE) и оболочкой из полиэтилена, торговой марки «HES KABLON», марок согласно приложению №1 на 1 листе (блик №000107), выпускаемые по технической документации изготовителя.

**СООТВЕТСТВУЕТ
ТРЕБОВАНИЯМ**
ГОСТ Р 53315-2009, ГОСТ IEC 60332-1-2-2011.
Предел распространения горения кабельного изделия при одиночной прокладке – ПРГО1.

**ПРОВЕДЕННЫЕ
ИССЛЕДОВАНИЯ
(ИСПЫТАНИЯ)
И ИЗМЕРЕНИЯ**
Протокол сертификационных испытаний № АПБ-001/01-2015 от 21.01.2015 г., ИЛ ООО «Пожарная Сертификационная Компания», рег. № АПБ.РУ.ЖРТО.ИЛ.002 от 03.08.2015 г., адрес: 125319, г. Москва, ул. 1-ая Аэропортовская, дом 6, помещение 6, комната 1-4.

**ПРЕДСТАВЛЕННЫЕ
ДОКУМЕНТЫ**
Сертификат соответствия системы менеджмента качества изготовителя требованиям ГОСТ ISO 9001-2011 (ISO 9001:2008), № СДС.НРС.ТR.001.OC.04.00453 от 09.09.2014 г., выдан ОО ООО «ЭкоМет», рег. № СДС.НРС.001.OC.04.

СРОК ДЕЙСТВИЯ СЕРТИФИКАТА СООТВЕТСТВИЯ с 30.01.2015 по 29.01.2018

Руководитель
изготовителя (руководитель
цеха по сертификации)
(подпись, инициалы, фамилия)

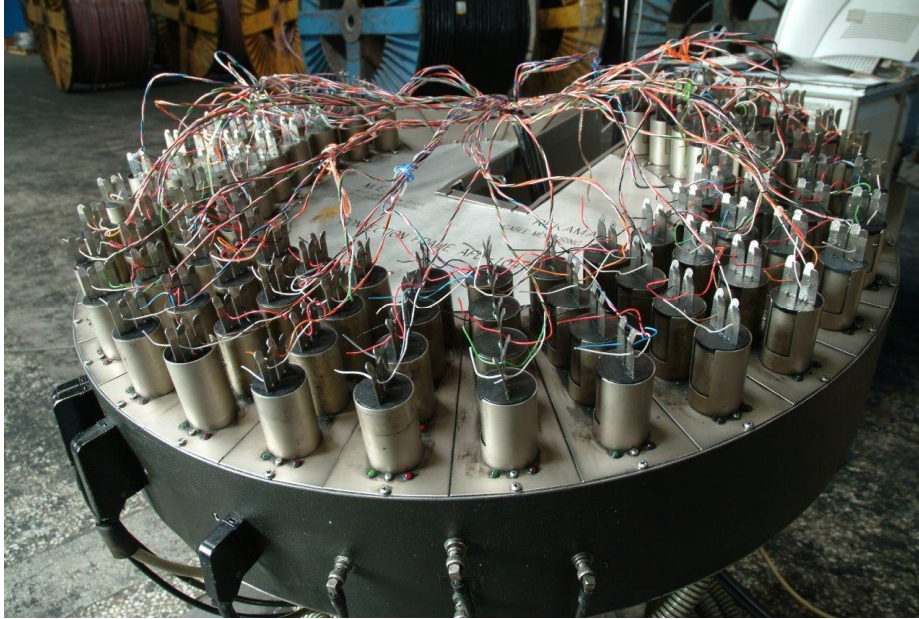
Эксперт (эксперты)
(подпись, инициалы, фамилия)

А.А. Григорьев

Д.Л. Голубева

000106

LABORATORIES

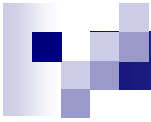


STOCK AREA



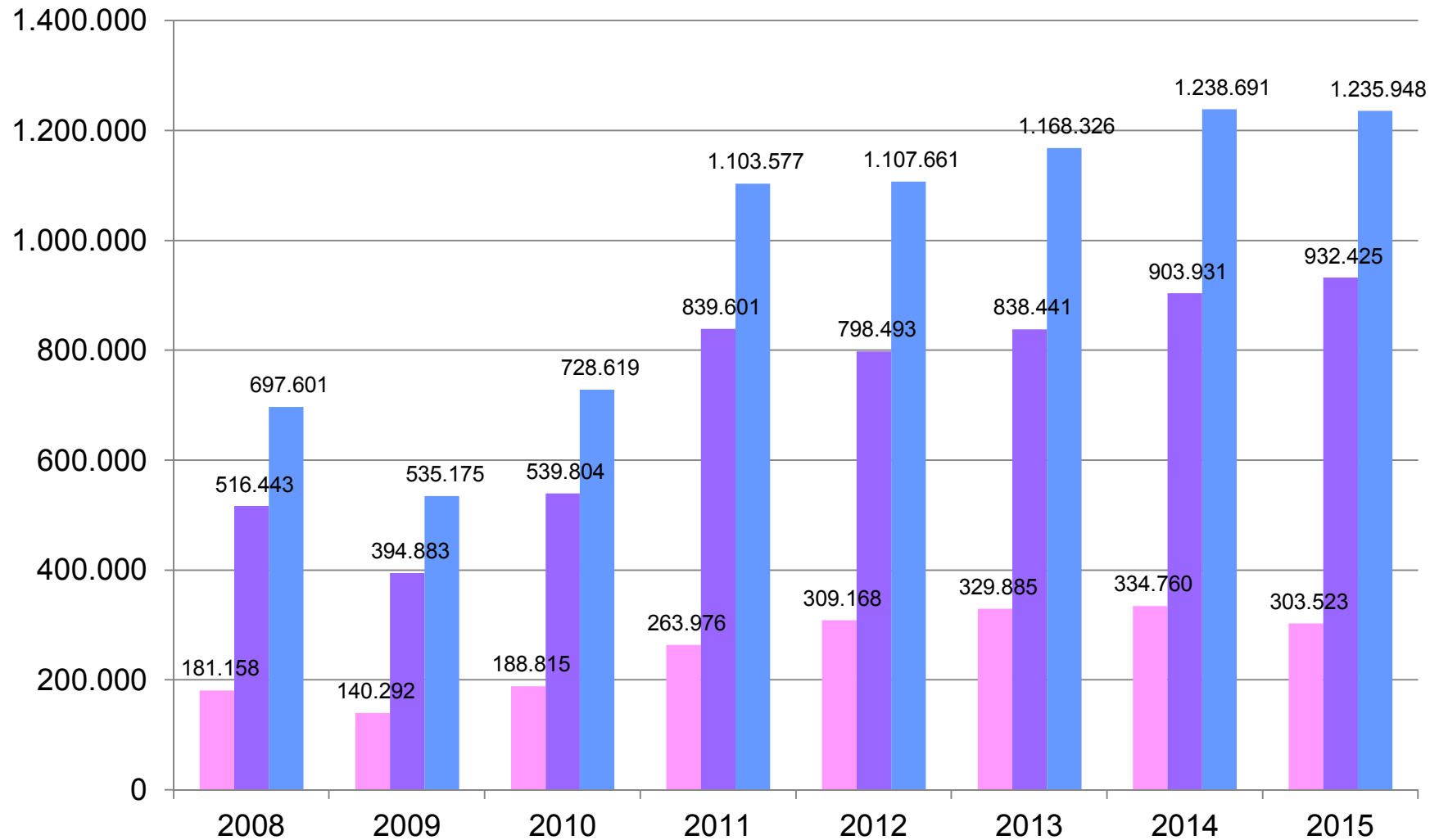
SHIPMENT



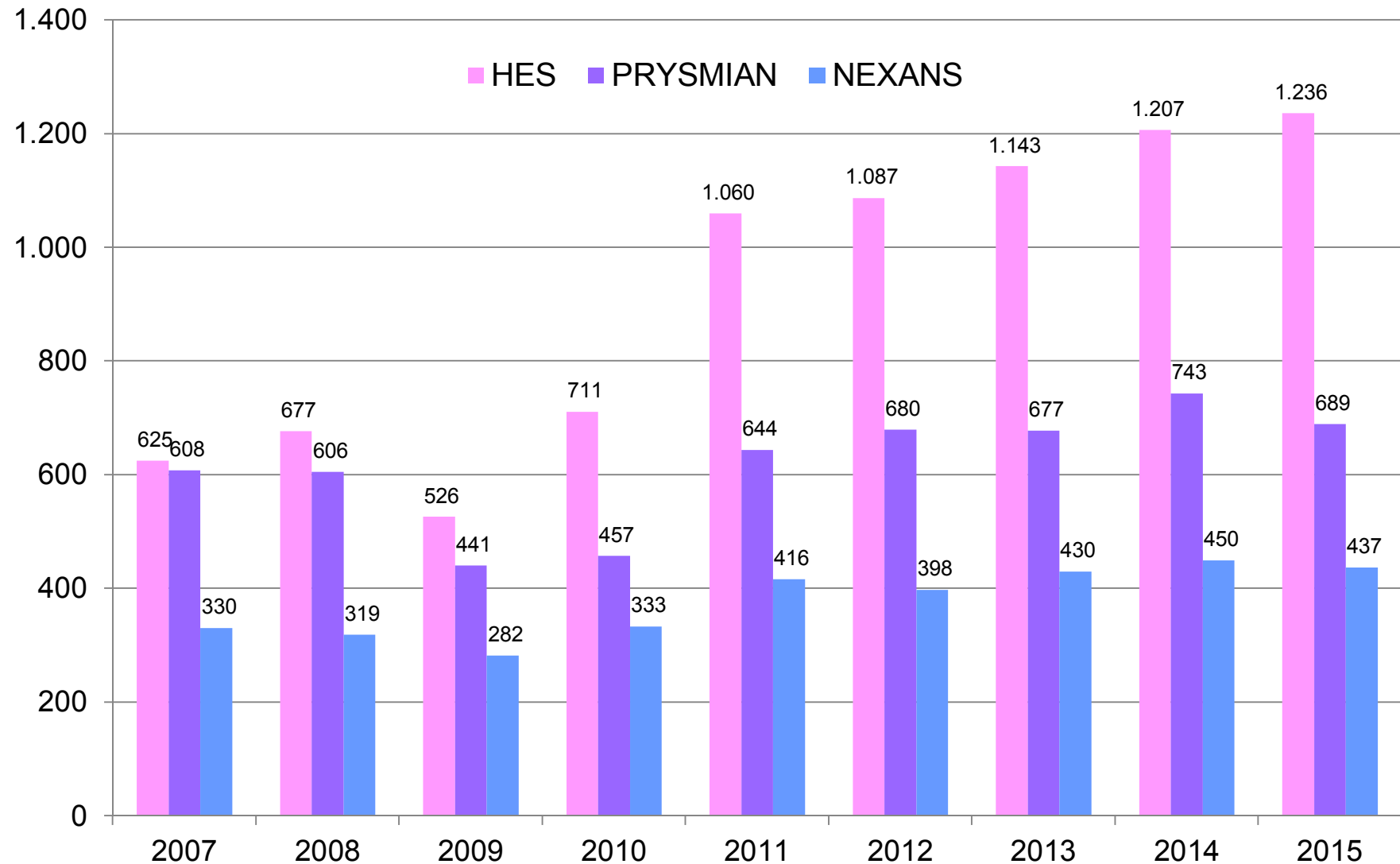


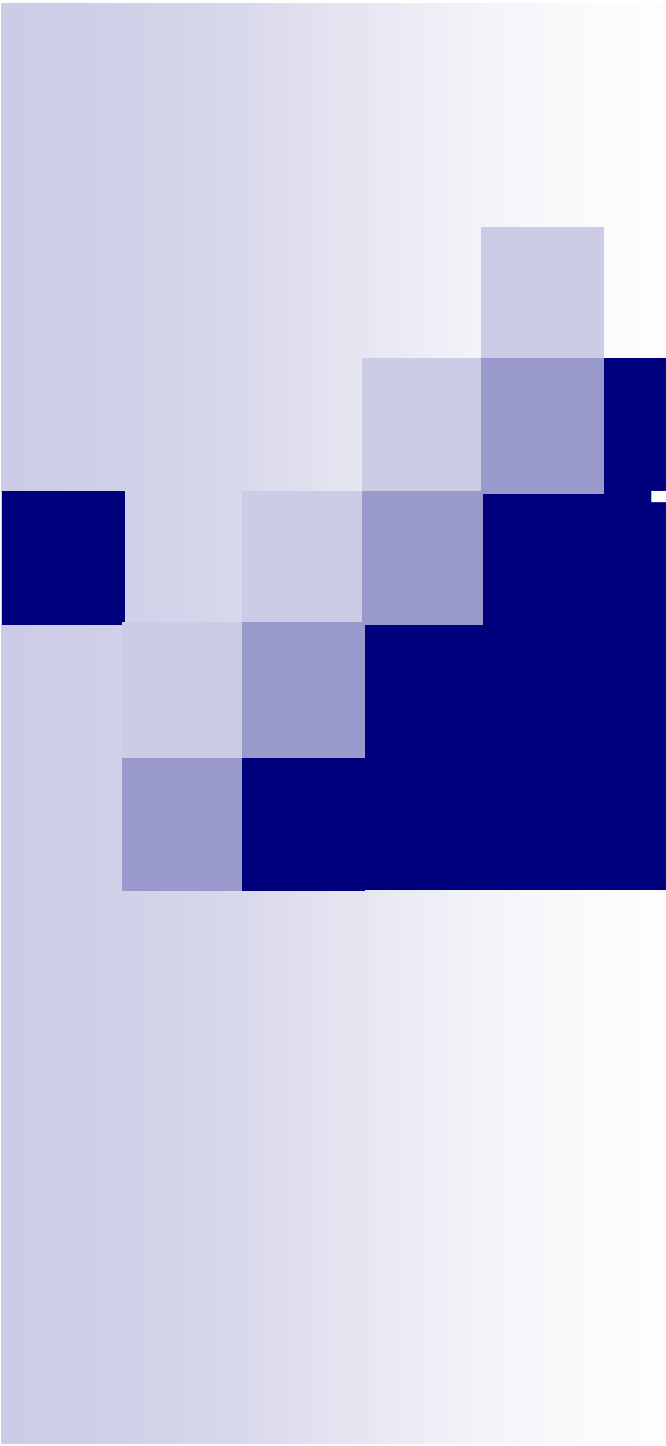
SALES (1000 TL)

Export Domestic Total



ISO 500 Companies Turnover (million TL)





THANK YOU