

KEI

Wires & Cables

BRIDGING THE GAP ACROSS 60 DIFFERENT COUNTRIES



THE POWER BEHIND THE POWER



Scan to reach other offices

KEI Industries Limited

REGISTERED AND CORPORATE OFFICE:

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E-MAIL: info@kei-ind.com WEBSITE: www.kei-ind.com CIN NO: L74899DL1992PLC051527



KEI

Wires & Cables

ONE STOP SOLUTION FOR WIRES AND CABLES



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Chart: Cable Selection Guide (Material Comparison Chart) Handling & Storage



Corporate Information

Board of Directors

Mr. Anil Gupta, Chairman-cum-Managing Director
 Mrs. Archana Gupta, Director
 Mr. Pawan Kr. Bholusaria, Director
 Mr. K G Somani, Director
 Mr. Vijay Bhushan, Director
 Mr. Vikram Bhartia, Director
 Mr. Rajeev Gupta, Executive Director & CFO (Finance)
 Mr. Akshit Divij Gupta
 Mr. Sadharam Bansal

Bankers

Dena Bank
 Punjab National Bank
 ING Vysya Bank
 State Bank of Hyderabad
 ICICI Bank Ltd
 Standard Chartered Bank
 State Bank of Patiala
 State Bank of Bikaner & Jaipur
 Indian Overseas Bank
 Corporation Bank
 DCB Bank Limited
 IDBI Bank Limited
 Lakshmi Vilas Bank Ltd
 State Bank of India
 Bank of India

Year of Establishment

1968

Type of Company

PUBLIC LIMITED

Income Tax (PAN) No.

AAACK0251C

CIN No: L74899DL1992PLC051527

PF Regd. No:

Delhi	DL-2330
Bhiwadi	RJ/8348 Dt.26.12.1996
Silvassa	GJ/VAPI/45769 Dt.9.11.2001
Chopanki	RJ/19828 Dt. 12/09/2008
Pathredi	RJRAJ1737691000

Factory Regd. No.

Bhiwadi	RJ/22219
Silvassa	GJ/1472
Chopanki	RJ/28507
Pathredi	RJ 32222

Excise Regd. No.

Bhiwadi	AAACK0251CXM002
Silvassa	AAACK0251CXM003
Chopanki	AAACK0251CXM004
Pathredi	08AAACK0251C1Z7

Factory Area

Bhiwadi	52447 sq. mtrs. (Covered)
Silvassa	14595 sq. mtrs. (Covered)
Chopanki	19188 sq. mtrs. (Covered)
Pathredi	31082 Sq. mtrs. (Covered)
Total Built-up area	102260 sq. mtrs.

TIN No.

Bhiwadi	08600850088-Dt. 18/1/1996
Silvassa	26000003620-Dt. 31/12/1999
Chopanki	08600850088-Dt. 18/1/1996
Pathredi	08AAACK0251C1Z7

Organization Strength Total Nos. 6128

Managerial	700
Supervisory	1822
Workmen	3606



KEI at a Glance

Business

Established with the vision of changing the landscape of the electrical cable & wire industry in India, KEI has been a leader in the cables and wires industry for over 50 years. With a sharp focus on quality and service, the Company has been a frontrunner in adopting latest business practices and innovations in technology to deliver maximum value to its customers. Over the years, KEI has carved a niche for itself in the market. Its superior quality and service resonates the trust that its customers have placed in the Company. Backed by state-of-the-art technology and infrastructure, KEI, today, has a vast product portfolio ranging EHV (upto 400 kV), HT, LT and specialized Power, Control and Instrumentation cables along with vast range of Rubber Cables.

History

Established in 1968 as a partnership firm under the name Krishna Electrical Industries, with the prime focus of manufacturing cables for the Department of Telecommunications (DoT), the firm was later converted into a public limited company under the abbreviated trade name KEI Industries Limited. In the following years, KEI acquired Matchless Status as a company engaged in the manufacture of stainless steel wires and other electrical wires and cables. In 2010 KEI set foot into the manufacturing of EHV cables (up to 220 kV) in collaboration with Brugg Cables, a century old Swiss company. Since then, KEI has continuously received the Superbrand Award for Industry and Consumer Validation, each year. Also, KEI has been continuously rated for good corporate governance by CARE, since 2007.

Verticals & Clientele

KEI supplies a range of cables to a number of industries such as power, petrochemical, cement, steel, infrastructure telecommunication and fertilizer industries, among others. KEI is a registered vendor for both Indian and overseas EPC contractors like ABB, Siemens, BHEL, Areva, Alstom and McDermott to name a few and is registered as a vendor for more than 200 large Indian companies encompassing almost all industrial sectors.

Services

In addition to electrical cable and wire manufacturing, KEI has diversified its operations and now has a fully established EPC Division to execute turnkey projects for various utilities. KEI offers a comprehensive range of services, including engineering, consultancy and project management, ranging from conceptualising to commissioning for core sectors like Power (including renewable energy), Railways, Refineries, Petrochemicals, Mining, Cement, Steel, etc. It provides end-to-end customer solutions from engineering to designing, supply and installation of products.

Manufacturing

KEI has created a large infrastructure by strategically locating its three manufacturing units over a built-up area of 102260 sq. mtrs. presently however further expansion plans are in pipeline. KEI has four manufacturing units located at Bhiwadi, Chopanki, Pathredi and Silvassa. The current capacity stands at 48,00,000 kg per annum for stainless steel wire division, 10,500 km per annum for HT cables, 35,000 km per annum for LT power cables, 31,000 km per annum for control cables, 11,000 km per annum for instrumentation cables, 10,000 km per annum for rubber cable and 5,50,000 km per annum for house wires/flexible wires. To meet the increased demand for its products emanating from the power, industrial, infrastructure and housing and construction sectors, the company has planned a capacity expansion program for all of its products.

Exports

The company enjoys a presence across almost over 60 countries: UAE, Oman, Kuwait, Bahrain, Qatar, Saudi Arabia, Yemen, Iraq, Syria, Jordan, Algeria, Eritrea, Sudan, Kenya, South Korea, Philippines, Japan, China, Turkmenistan, Kazakhstan, Spain, Germany, Italy, Congo, Bangladesh, Sri Lanka, Nepal, Myanmar, Uganda, Tanzania, Mozambique, Rwanda, South Africa, Zambia, Namibia, Nigeria, Ghana, Togo, South Sudan, Mali, DR Congo, Somalia, Trinidad and Tobago, Grenada, Jamaica, France, Mauritius, Australia, Singapore, PNG (Papua New Guinea), Vietnam, Indonesia, Malaysia, Canada, Cyprus, Ethiopia, Iran, Mexico, New Zealand, Switzerland, UK, USA, West Indies. . The company drives almost 20% of its revenue from the overseas market.

Financial Performance of the Company

Particulars	FY 21-22		FY 20-21		FY 19-20	
	(INR in Millions)	(\$ in Millions)	(INR in Millions)	(\$ in Millions)	(INR in Millions)	(\$ in Millions)
sale & other Income	57,414.36	757.57	42,015.48	574.73	49,007.35	648.67
Profit before interest, Depreciation & Tax	6,035.79	79.64	4,755.29	65.05	5,125.07	67.84
Less- Financial Charges	403.93	5.33	573.08	7.84	1291.51	17.09
Depreciation	554.54	7.32	578.14	7.91	566.89	7.50
Profit before	5,077.32	66.99	3,604.07	49.30	3,266.67	43.24
Provision for tax	1,315.13	17.35	908.57	12.43	715.64	9.47
Profit after tax	3,762.19	49.64	2,695.50	36.87	2,551.03	33.77

Note: The dollar rate considered for conversion is FY 21-22 \$1 = INR 75.79, FY 20-21 \$1 = INR 73.11 & FY 19-20 \$1 = INR 75.55.

** The financial statements for FY 2017-18 have been prepared in accordance with the Indian Accounting Standards (Ind AS) notified under Companies (Indian Accounting Standards) Rules, 2015, accordingly for FY 2016-17, figures have been regrouped/reclassified, wherever necessary

KEI Product Range

KEI has been a pioneer in design and manufacture of high-performance cables and wires. Its vast portfolio ,apart from EHV cables up to 400 kV. MV (medium voltage) and HT cables also includes control and instrumentation cables, rubber cables, thermocouple cables, zero halogen cables, braided cables, single and multi core flexible cables, housewire and stainless steel wires. By actively responding to changing customer demands and expectations, the company has expanded its distribution network and strengthened existing industrial product vertical.

Product & Solutions

- EHV Cables up to 400 kV
- HT Cables up to 33 kV- Dry Cured Process
- LT Power Cables-Copper / Aluminium Conductor PVC, XLPE & EPR
- LT Control Cables-Copper PVC, XLPE & EPR
- Screened / Unscreened Type PVC/PE/EPR/XLPE Instrumentation Cables
- Flexible & Housewires (Single & Multicore)
- Elastomeric (Rubber) Cables
- Railway Signaling Cables
- Fire Survival, Zero Halogen Cables
- Telephone Cables
- Automation Cables
- Welding Cables
- Submersible Cables / Winding Cables
- Ship Wiring Cable
- Mining Cable
- Cables for Offshore Installation
- Cables for Defence
- AB Cables
- Solar Cables



ISO CERTIFICATES

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
10000375627-MSC-UKAS-IND

Initial certification date:
30 June 2011

Valid:
30 June 2020 - 29 June 2023

This is to certify that the management system of

KEI Industries Ltd.

SP 919, 920, 922, RIICO Industrial Area, Phase - III, Bhiwadi, District: Alwar - 301 019, Rajasthan, India
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Environmental Management System standard:
ISO 14001:2015

This certificate is valid for the following scope:

Design, development, manufacture, marketing and services of cables, wires & conductors (HT/EHV/LT, power, control, instrumentation), thermocouples, elastomeric cables, winding & flexible wires and stainless steel wires for wide range of applications

Place and date:
London, 14 October 2020



For the issuing office:
DNV GL - Business Assurance
4th Floor, Vivo Building, 30 Stamford
Street, London, SE1 9LQ, United Kingdom


Doug Milne
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

DNV·GL

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 10000375626-MSC-UKAS-IND Initial certification date: 12 December 2000 Valid: 30 June 2020 - 29 June 2023

Certificate No: 10000341129-MSC-UKAS-IND Initial certification date: 30 June 2011 Valid: 29 June 2020 - 29 June 2023

This is to certify that the management system of

This is to certify that the management system of

KEI Industries Ltd.

SP 919, 920, 922, RIICO Industrial Area, Phase – III, Bhiwadi, District: Alwar - 301 019, Rajasthan, India and the sites as mentioned in the appendix accompanying this certificate

KEI Industries Ltd.

SP 919, 920, 922, RIICO Industrial Area, Phase – III, Bhiwadi, District: Alwar - 301 019, Rajasthan, India and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard: **ISO 9001:2015**

has been found to conform to the Occupational Health and Safety Management System standard: **ISO 45001:2018**

This certificate is valid for the following scope: **Design, development, manufacture, marketing and services of cables, wires & conductors (HT/EHV/LT, power, control, instrumentation), thermocouples, elastomeric cables, winding & flexible wires and stainless-steel wires for wide range of applications**

This certificate is valid for the following scope: **Design, development, manufacture and services of cables, wires & conductors viz., HT/EHV/LT power, control, instrumentation, thermocouples, elastomeric cables, winding & flexible wires and stainless steel wires for wide range of applications**

Place and date: Chennai, 14 October 2020

Place and date: London, 20 October 2020




For the issuing office: DNV GL - Business Assurance ROMA, No. 10, GST Road, Alandur, Chennai - PIN - 600 016, India


Sivadasan Madiyath
Management Representative



For the issuing office: DNV GL - Business Assurance 4th Floor, Vivo Building, 30 Stamford Street, London, SE1 9LQ, United Kingdom


Eerie Koek
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid. ACCREDITED UNIT: DNV GL Business Assurance UK Limited, 4th Floor, Vivo Building, 30 Stamford Street, London, SE1 9LQ, United Kingdom. TEL: +44(0) 203 816 4000. www.dnvgl.co.uk

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid. ACCREDITED UNIT: DNV GL Business Assurance UK Limited, 4th Floor, Vivo Building, 30 Stamford Street, London, SE1 9LQ, United Kingdom. TEL: +44(0) 203 816 4000. www.dnvgl.co.uk



National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

QUALITY ASSURANCE LABORATORY, KEI INDUSTRIES LTD.

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

SP-919, 920, 922, RIICO INDUSTRIAL AREA, BHIWADI, ALWAR, RAJASTHAN, INDIA

in the field of

TESTING

Certificate Number: TC-6110



Issue Date: 31/07/2019 Valid Until: 30/07/2021*

*The validity is extended for one year up to 30.07.2022


This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : KEI INDUSTRIES LTD.

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer



Certificate No: E-14121
File No: 827.20
Job Id: 262.1-002361-2

TYPE APPROVAL CERTIFICATE

This is to certify:
That the Low Voltage Cable

with type designation(s)
BFOU (i) S3/S7 250 V, BFOU (c) S4/S8 250 V, BFCU(i) & (c) 250V, ,

Issued to
KEI Industries Ltd.
Mumbai DELHI, India


is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards
IEC 60092-376 (2003-05)
IEC 60331-21 (1999-04)
IEC 60332-3-22 (2009-02)
IEC 60754-1 (2011-11)
IEC 60754-2 (2011-11)
IEC 61034-1/2 (2013-07/2013-09)
NEK TS 606 (2009-05) (S-types only)

Application :
Instrumentation and communication.
Fire resistant. Flame retardant Cat. A. Halogen free. Low smoke. Mud resistant.

Type	Voltage class (V)	Temp. class (°C)
BFOU (i) S3/S7 250 V	250	90
BFOU (c) S4/S8 250 V	250	90
BFCU(i) & (c) 250V	250	90

This Certificate is valid until **2018-12-31**.
Issued at **Høvik** on **2015-03-23**

DNV GL local station: **Mumbai**
Approval Engineer: **Ludovico Gullifa**



for **DNV GL**
Digitally Signed By: Laumann, Marit
Location: DNV GL Høvik, Norway
Signing Date: 2015-03-25

Marit Laumann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Form code: TA 1411a Revision: 2014-11
www.dnvgl.com
Page 1 of 4



DNV·GL

TYPE APPROVAL CERTIFICATE

Certificate No:
E-14122
File No:
827.20
Job Id:
262.1-002361-2

This is to certify:
That the Low Voltage Cable

with type designation(s)
RFOU (i) S1/S5 250 V, RFOU (c) S2/S6 250V, RFCU(i) & (c),

Issued to
KEI Industries Ltd.
Mumbai DELHI, India

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards
IEC 60092-376 (2003-05)
IEC 60332-3-22 (2009-02)
IEC 60754-1 (2011-11)
IEC 60754-2 (2011-11)
IEC 61034-1/2 (2013-07/2013-09)
NEK TS 606 (2009-05) (S-types only)

Application :
Instrumentation and communication.
Flame retardant Cat. A. Halogen free. Low smoke. Mud resistant.

Type	Voltage class (V)	Temp. class (°C)
RFOU (i) S1/S5 250 V	250	90
RFOU (c) S2/S6 250V	250	90
RFCU(i) & (c)	250	90

This Certificate is valid until **2018-12-31**.
Issued at **Høvik** on **2015-03-23**

DNV GL local station: **Mumbai**
Approval Engineer: **Ludovico Gullifa**



for **DNV GL**
Digitally Signed By: Laumann, Marit
Location: DNV GL Høvik, Norway
Signing Date: 2015-03-25
Marit Laumann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



DNV·GL

TYPE APPROVAL CERTIFICATE

Certificate No:
E-14123
File No:
827.10
Job Id:
262.1-002361-2

This is to certify:
That the Electric Power Cable

with type designation(s)
BFOU P5/P12 0,6/1 kV, BFCU 0,6/1kV, BFOU VFD 0,6/1 kV,

Issued to
KEI Industries Ltd.
Mumbai DELHI, India

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards
IEC 60092-353 (2011-08)
IEC 60331-21 (1999-04)
IEC 60332-3-22 (2009-02)
IEC 60754-1 (2011-11)
IEC 60754-2 (2011-11)
IEC 61034-1/2 (2013-07/2013-09)
NEK TS 606 (2009-05) (P-types only)

Application :
General power and lighting.
Fire resistant. Flame retardant Cat. A. Halogen free. Low smoke. Mud resistant.

Type	Voltage class (kV)	Temp. class (°C)
BFOU P5/P12 0,6/1 kV	0,6/1	90
BFCU 0,6/1kV	0,6/1	90
BFOU VFD 0,6/1 kV	0,6/1	90

This Certificate is valid until **2018-12-31**.
Issued at **Høvik** on **2015-03-23**

DNV GL local station: **Mumbai**
Approval Engineer: **Ludovico Gullifa**



for **DNV GL**
Digitally Signed By: Laumann, Marit
Location: DNV GL Høvik, Norway
Signing Date: 2015-03-25
Marit Laumann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



DNV·GL

TYPE APPROVAL CERTIFICATE

Certificate No:
E-14124
File No:
827.10
Job Id:
262.1-002361-2

This is to certify:

That the Electric Power Cable

with type designation(s)
RFOU P1/P8 0,6/1 kV, RFCU 0,6/1 kV, RFOU-VFD 0,6/1 kV,

Issued to

**KEI Industries Ltd.
Mumbai DELHI, India**

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards
IEC 60092-353 (2011-08)
IEC 60332-3-22 (2009-02)
IEC 60754-1 (2011-11)
IEC 60754-2 (2011-11)
IEC 61034-1/2 (2013-07/2013-09)
NEK TS 606 (2009-05) (P-types only)

Application :

**General power and lighting.
Flame retardant Cat. A. Halogen free. Low smoke. Mud resistant.**

Type	Voltage class (kV)	Temp. class (°C)
RFOU P1/P8 0,6/1 kV	0,6/1	90
RFCU 0,6/1 kV	0,6/1	90
RFOU-VFD 0,6/1 kV	0,6/1	90

This Certificate is valid until **2018-12-31**.

Issued at **Høvik** on **2015-03-23**

DNV GL local station: **Mumbai**

Approval Engineer: **Ludovico Gullifa**



for **DNV GL**

Digitally Signed By: **Laumann, Marit**
Location: **DNV GL Høvik, Norway**
Signing Date: **2015-03-25**

Marit Laumann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



**SECTOR
WISE
CLIENTELE**

SECTOR WISE CLIENTELE		
SECTOR 1	INTERNATIONAL EPC'S	COUNTRY
	ABB	INDIA
	AREVA	UAE, BANGLADESH
	SIEMENS	BANGLADESH, INDIA, QATAR, SRI LANKA
	SAMSUNG	INDIA
	LG	INDIA
	TOYO	INDIA
	TECHNIP	INDIA
	PETROFAC	UAE, INDIA
	ALSTOM	INDIA, FRANCE, MALAYASIA, SWITZERLAND, SHARJAH
	McDERMOTT	UAE
	mitsui	INDIA
	ITOCHU	INDIA
	SKANSKA	INDIA
	PUNJ LLYODS	SINGAPORE, MALAYASIA, INDIA, QATAR
	SKIPPER ELECTRICALS	NIGERIA
	BHEL	IRAQ, MALAYASIA, INDIA
	LARSEN & TOUBRO	SRI LANKA, INDIA, UAE, OMAN, KUWAIT
	RELIANCE GROUP	INDIA
	DELHI METRO RAIL CORPORATION	INDIA
	IRCON	ETHIOPIA, INDIA
	STERLING & WILLSON	AFGANISTAN, INDIA
	ETA	SUDAN
	TECHNIMONT ICB PVT LTD.	UAE
SECTOR 2	POWER AND TRANSMISSION	
	SUZLON ENERGY LIMITED	INDIA
	ENERCON	INDIA
	TATA POWER	INDIA
	ESSAR POWER	INDIA
	NATIONAL THERMAL POWER CORPORATION	INDIA
	JINDAL POWER	INDIA
	CEB, MAURITIUS	MAURITIUS
	POWER GRID CORPORATION OF INDIA	INDIA
	ENRON	INDIA
	BSES LTD	INDIA
	NUCLEAR POWER CORPORATION	INDIA
	INDIAN RAILWAYS	INDIA
	AHMEDABAD ELECTRICITY CO	INDIA
	SURAT ELECTRICITY CO	INDIA
	KARNATAKA POWER CO LTD	INDIA
	STATE ELECTRICITY BOARDS OF INDIA	INDIA
	Reliance	INDIA
	CESC	INDIA
	NHPC	INDIA
	FEDERAL ELECTRICITY & WATER AUTHORITY	UAE
	KAHRAMAA	QATAR
	SAUDI ELECTRICITY COMPANY	SAUDI ARABIA
	MEW	KUWAIT
	PEC	YEMEN
	EDD	BAHRAIN
	SIEMENS GAMESA Renewable Power Pvt Ltd	INDIA / TAMILNADU
	Vestas Wind Technology India Pvt.Ltd	INDIA
	Tamilnadu Transmission Corporation Limited	INDIA / TAMILNADU

SECTOR WISE CLIENTELE		
SECTOR 1	INTERNATIONAL EPC'S	COUNTRY
	STEEL AUTHORITY OF INDIA	INDIA
	ESSAR	INDIA
	TATA	INDIA
	NALCO	INDIA
	BALCO	INDIA
	HINDALCO	INDIA
	HIDUSTAN ZINC LIMITED	INDIA
	BIRLA COPPER	INDIA
	INDAL	INDIA
	MONNET STEEL	INDIA
	JINDAL VIJAYNAGAR	INDIA
	JINDAL STEEL & POWER	INDIA
	ISPAT	INDIA
SECTOR 4	REFINERIES AND PETROCHEMICALS	
	INDIAN OIL CORPORATION LTD	INDIA
	BHARAT PETROLEUM CORPORATION LTD	INDIA
	INDIAN PETROCHEMICALS LTD	INDIA
	KOCHI REFINERIES LTD	INDIA
	CPCL	INDIA
	ESSAR	INDIA
	HINDUSTAN PETROLEUM CORPORATION LTD	INDIA
	NUMALIGARH REFINERIES LTD	INDIA
	BONGAIGAON REFINERIES LTD	INDIA
	HALDIA PETROCHEMICALS LTD	INDIA
	RELIANCE	INDIA
	CAIRN ENERGY	INDIA
	BORL	INDIA
	MITTAL (HPCL)	INDIA
	TAKREER	UAE
	KNPC	KUWAIT
	PDO	OMAN
	QP	QATAR
SECTOR 5	OIL AND GAS	
	OIL & NATURAL GAS CORPORATION LTD	INDIA
	GAS AUTHORITY OF INDIA LTD	INDIA
	OIL INDIA LTD	INDIA
	INDIAN OIL TANKING	INDIA
	GASCO	UAE
SECTOR 6	TELECOMMUNICATION	
	BHARAT SANCHAR NIGAM LTD	INDIA
	CYPRUS TELECOM	CYPRUS
	BASIC OPERATORS AND ENGINEERS	INDIA
	DEFENCE	INDIA
	RELIANCE INFOCOMM	INDIA
	AIRTEL	INDIA
	RELIANCE COMMUNICATION	INDIA
	VODAFONE	INDIA
	NXTRA DATA CENTRE	INDIA/MAHARASTHRA
	India International Convention & Expo Centre	INDIA / DELHI

SECTOR WISE CLIENTELE

SECTOR 7	FERTILISERS	COUNTRY
	NATIONAL FERTILISERS LTD	INDIA
	INDIAN FARMERS AND FERTILISERS CO-OPERATIVE LTD	INDIA
	KRISHAK BHARTI CO-OPERATIVE LTD	INDIA
	CHAMBAL FERTILISERS	INDIA
	ZUARI AGRO	INDIA
	RASHTRIYA CHEMICALS AND FERTILISERS	INDIA
	TATA CHEMICALS	INDIA
	HINDUSTHAN FERTILISERS CO LTD	INDIA
	GUJARAT STATE FERTILIZER CORPORATION	INDIA
	DEEPAK FERTILIZER	INDIA
SECTOR 8	CEMENT	
	ACC LTD	INDIA
	LARSEN & TOUBRO	INDIA
	J. P. BELA CEMENT	INDIA
	TATA CEMENT	INDIA
	RAJ CEMENT	INDIA
	TCIL - TORO	UGANDA
	GUJARAT AMBUJA CEMENTS LTD.	INDIA
	ARM	KENYA
	RAS CEMENT	INDIA
	NIGERIA CEMENT	NIGERIA
	STAR CEMENT	UAE
	JEBEL ALI CEMENT	UAE
SECTOR 9	SOFTWARE PARKS / PHARMACEUTICALS / HOSPITALS / MULTIPLEX / BANKS / HOTELS / PAINTS / CHEMICALS / OTHERS	COUNTRY
	INFOSYS SOFTWARE	INDIA
	3 GLOBLE SERVICES	INDIA
	DELL COMPUTERS	INDIA
	WIPRO SOFTWARE	INDIA
	IBM COMPUTERS	INDIA
	SURYA IT PARK	INDIA
	INTEL COMPUTERS	INDIA
	VERITAS SOFTWARE	INDIA
	INTERNATIONAL KNOWLEDGE PARK	INDIA
	RANBAXY	INDIA
	CIPLA	INDIA
	RATIO PHARMA	INDIA
	BANNER PHARMA	INDIA
	MADRAS PHARMA	INDIA
	LOREAL COSMETICS	INDIA
	MAHAVEER HOSPITAL	INDIA
	WOCKHARD HOSPITALS	INDIA
	PVR MULTIPLEX	INDIA

SECTOR WISE CLIENTELE

	INOX MULTIPLEX	INDIA
	ICICI BANK	INDIA
	HSBC BANK	INDIA
	DUETSCHKE BANK	INDIA
	HDFC BANK	INDIA
	ABN - AMBRO BANK	INDIA
	CITY BANK	INDIA
	COUNTRYWIDE FINANCIAL CORPORATION	INDIA
	CAP GEMINI INDIA	INDIA
	ITC	INDIA
	HOTEL TAJ	INDIA
	GOODLAS NEROLAC	INDIA
	ASIAN PAINTS	INDIA
	ACCENTURE - GODREJ	INDIA
	JET AIRWAYS	INDIA
	SAHARA	INDIA
	MONSANTO	INDIA
	MIND SPACE - HOUSING COMPLEX	INDIA
	BIOCON	INDIA
	TATA CONSULTANCY SERVICES	INDIA
	KALA ACADEMY	INDIA
	BALAKRISHNA TYRES	INDIA
	GODFREY PHILIPS	INDIA
	GLOBAL OILS & FATS	INDIA

LIST OF MAJOR EHV CABLES PROJECTS

S. No	CLIENT	Po Number/ Date	Description Of Work	Qty/ Km Total	Value
1	Shyama Power India Ltd,	OA11504-001 Dated: 04.05.2011	JAWAHARNAGAR S/S	1.275	10,014,878
2	NALCO	P&T/CONT/121 Dated: 07.06.2013	Supply and Installation of 220 kV Cable and cable accessories for NALCO- 220 kV Transmission line project of M/S National Aluminium company Limited	3.03	59,550,930
3	Reliance - Jamnagar	JE2/7488308 Dated: 31.10.2013	Reliance jamnagar J2 Project	1.23	12,368,508
4	DMRC/DTL	DMRC/Elect/Planning/Tender CE-16 Dated: 15.01.2015	DTL 220 kV Substation , Vasant Kunj to DTL- 220 kV Sub station R.K Puram	39.03	59,309,2168
5	PGCIL	for Supply :CC-CS/595-NR1/ CBL-3175/3/G5/R/NOA-I/5524	Supply,laying & termination of 220KV U/G Cable between Harsh Vihar GIS Substation & Patparganj AIS Substation (Balance portion)	24.4	43,456,712
6	Tamil Nadu Transimission Coporation Limited (TL-1826)	Lr. No.CE/TR/SE/TR.III/EE/C/A3/- F.T-1826/LOI-2641/D.09/15/ Dated: 31.01.2015	i) Alamathy OH line to CMRL koy- ambedu 230kV SS ii) Aguin dy 400 kV SS to RA - pura m 230 kV SS	31.26	388,417,654
7	Tamil Nadu Transimission Coporation Limited (TL-1827)	Lr. No.CE/TR/SE/TR.III/EE/C/A3/ F.T-1827/LOI-2646/D.25/15/ Dated: 26.02.2015	Ambattur Industrial Estate 230 kV SS to thiruverkadu 230 kV SS	32.24	410,113,575
8	Cable Grid	072HPSOK3-5 Dated: 04.05.2015	Australia	1.9	23,542,662
9	WBSETCL	CEP/WBSETCL/Cable laying/Pkg-AE/Supply/ Dated: 17.11.2016	Substation - Baruipur 220 KV D/C Transmission Line (UG cable Part) 0.7 Km). Line-1:- Construction of Subhasgram (PG) 400 KV Line-2:—Construction of 220 Kv D/C Transmission Line (UG cable Part with OFC) from Rajarhat 400 KV S/S of PGCIL (under construction) to proposed New Town IIC 220 KV	15.75	293,892,723
10	UPPTCL	LOI NO: 19/ETDC/3/TD-416/KEI Dated: 03.01.2017	Supply & Erection of 220KV Double Circuit 1000 sq mm Copper under ground XLPE cable from 400KV S/S Sultanpur Road-220Kv S/S Sultanpur (Awas Vikas) , 0.80 km, and LILO of 220KV Chinnat-Raebareli line at 220KV S/S C.G. city , 2.5 km , Lucknow with 1200 sq mm Copper underground XLPE Cable on Turnkey basis	23.1	389,262,293
11	L&T Ltd.	EF616PO7000012-Project and Domestic Dated: 25.01.2017	Tantransco Porur	2.37	33,999,999
12	Andritz Hydro Private Limited	PO. No. 4501853494 Dated: 27.03.2017	220KV TKT Vietnam	7.6	60,800,000

LIST OF MAJOR EHV CABLES PROJECTS

S. No	CLIENT	Po Number/ Date	Description Of Work	Qty/ Km Total	Value
13	Andritz Hydro Private Limited	PO. No. 450000636993 Dated: 09.06.2015	220KV XEKAMAN	1.2	6,438,000
14	Toshiba JSW Power Systems Pvt. Ltd.	TJPS/HAU2/Proc-AB/ONS/220 KVEHV-Cable-LOI/113 &114&115 Dated: 03.06.2017	220 KV EHV cable package for 1x 660 MW, Harduaganj Thermal Power Station-II, Project at Diw-trict Aligarh, Uttar Pradesh, India.	5.1	75,309,190
15	BNC Power Projects Ltd	BNCPPPL/PNA/EHV Cable/ Neru-Sea Wood /PO/256 Dated: 19.01.2018	220KV MSETCL Nerul Sea Wood Project	10.2	116,552,554
16	HPCL VIZAG	Ref. no.: 17000405-HP46004/RP Dated: 12.03.2018	HPCL VISAKHAPATNAM VIKASH REFINERY	62	1,286,509552
17	KSEB	LOA No.:- DCE/SRDT/Kochi Lines Cable Package/18-19/271 Dated: 28.06.2018	Tender No.:-DCE/Transgrid(S) /02/18-19 Dated 11.05.2018	43.032	521,306,541
18	Shri Vaari electrical Pvt. Ltd.	SVEPL/LOI/DLF/KEI/18001 Dated: 05.07.2018	supply of 220KV 1C X 1200 Sq.mm Cu cable	8.3	82,170,000
19	Techno electric & engineering Co.	By mail dated Dated: 27.06.2018	TGTRANSCO - 400/220KV Substa-tion at Ramadugu & 2 Nos. 400KV Quad bays at Narsapur.	3	28,200,000
20	TATA Power	CC18UYP004/02 Dated: 20.08.2018	NMIA Project	66.5	2,945,000,000
21	BGR	4100002492 Dated: 20.09.2018	230/33 KV GIS SS, Tantransco	5.295	33,637,467.08
22	Megha Engg & Infrastructure Ltd	MEIL/Raydurg/1227/PO-009/ 18-19 Dated: 28.09.2018	220KV TSTRANSCO Raydurg	64.0000	634,837,404
23	DOOSAN	LOI Ref No.: Jawaharpur/2018/ DPSI/LOI/ELEC/Supply/EHV Cab-le(220KV)/041 Dated: 06.10.2018	2X660 MW Jawaharpur Power Project, Malawan Village, Etah, U.P.	3.6500	19,920,000
24	Torrent Power	Po.No.: TNDA/T01/33292/ 3130021591 Dated: 09.01.2019	Supply of 220Kv 1C 1600 Sq.mm Cu, XLPE Cable for Odhav GIS, Ahmedabad	0.675	9,170,732.25
25	Techno electric & engineering Co. Ltd.	LOA No.: TECHNO/0718AS/ Assam/KEI/18-19 Dated: 11.01.19	Supply of EHV & HT Cables for S/Stn projects against package ASM-SS04 Under PGCIL at Amin-agaon & Guwahati (Paltnbazar & Guwahati Medical College)in Assam.	3.197	36,762,303
26	NKG Infrastructure Ltd.	NKG/KEI/NEEBU PARK/05 Dated: 15.06.2011	132kV underground cabling work between Neebu park substation and Hardoi road, Lucknow	18.91	95,977,374
27	UPRNNL Lucknow (UPPTCL)	786/132 KV CABLING/RNN-18/11 Dated: 19.10.2011	1. Hanuman Setu-Neebu park Double circuit 2. Hanuman setu -Gau Ghat single circuit 3. Gau ghat-220kV sub station hardoi road single circuit.	108.429	1,389,673,634

LIST OF MAJOR EHV CABLES PROJECTS

S. No	CLIENT	Po Number/ Date	Description Of Work	Qty/ Km Total	Value
28	Mangalore Sez Ltd.	LOI.NO.MSEZL/ELECT/110KV-GSS-03/06/2013-14 Dated: 17.07.2013	From 220 kV sub station of KPTCL to 110 kV GSS-03 of MSEZL	15	99,327,180
29	WBSETCL Limited - Package	CE/TR(O&M)/TR-II/PO/Inside/2220 Dated: 04.03.2014	132 D/C transmission XLPE cable thorough farakka bridge in between Khejuria GI station and farakka switching sub station	16	172,301,543
30	WBSETCL (Package-R)	CECON/31/SUPPLY/310 CECON/31/ERECTION/311 Dated: 08.07.2014	Diversion of 132 KV D/C (i) Kasba-Sonarapur/Behala overhead line in between tower no TL. 6 to 8A and (ii) Kasba-Salt Lake overhead line in between Kasba 220/132 KV Sub-Station and tower no TL. 3	8.12	14,474,764
31	KSEB	CE(TS)/1-B/2014-15, Dated: 01.08.2014	From Kaloor to Ernakulum	24	210,702,390
32	Transmission Corporation of Telangana Limited	Lr. No. CPT 110/SE-Const/F.Mdpally/D.No. 790/2015 Dated: 10.11.2015	132KV 630SQMM DC XLPE UG cable from 220/132KV SS Shivar-ampally to proposed 132KV Mylar Devula Pally Substation in Ranga Reddy District on turnkey basis	18.78	281,452,672
33	TS TRANSCO	CPT130/SE-Const/F.132KV LILO Bonguluru (UG)/D.No. 21 /16 Dated: 24.10.2016	TST-e- 31/2015-Supply, Laying, Jointing, Making Terminations, Testing & Commissioning of 132 kV XLPE DC UG Cable for LILO of 132 kV Ibrahimpatnam - Turkamjal SC Line to proposed 220 kV Bonguluru SS(3km) in Ranga Reddy District on Turnkey basis		
34	RRVNL	RVPN/SE(AUTOMATION)/XEN-1/ASP/TN-1/LOI/D487 Jaipur Dated: 05.12.2016	Estabilishing of 132 kV Double Ckt (1200 sq.mm.) between LILO Point of 132 kV Vaishali-VKIA Line & 132 kV Substation New Jhotwara (Jaipur)	14	178,884,437
35	TANTRASCO	LOI-2963 Dated: 28.02.2018	TANTRASCO supply and laying of 110KV EHV cable from airport to Pallavarm SS & KITS park SS to Sholinganallur	18.6	184,509,028
36	Megha Engg & Infrastructure Ltd	MEIL/Raydurg/1227/PO-009/18-19 Dated: 28.09.2018	132KV TSTRANSCO Raydurg	21.5	201,112,596
37	Indian Oil Corporation Limited Refineries Division : Guwahati Refinery	LOA Ref. No. RGRM 18PA62/01 Dated: 04.08.2019	(a) Supply of 1C X 400 Sq. mm 132 Kv XLPE (AL) UG Cable (b) 1 C Straight Through Jointing Kit including Cross ending . (C) Supply of 132 kv OD Cable end termination with composite insulators.	13	53,541,662.3

LIST OF MAJOR EHV CABLES PROJECTS

S. No	CLIENT	Po Number/ Date	Description Of Work	Qty/ Km Total	Value
38	Haryana Vidyut Prasaran Nigam Ltd.	HDP-1776 Dated: 12.11.2010	1. LILO arrangement of 66kV D/C Badshahpur -sector 15 line at 66kV sub- station sector-51, gurgaon 2. LILO arrangement of 66kV D/C Badshahpur -sector 34-sector-10 line at 220kV sub- station sector-72 gurgaon 3. LILO Line of Dukheri-Layapur basti line and 66kV substation company .	24	88,416,341
39	Karnatka Power Transmission corporation Limited(KPTCL)	CEE/T&P/SEE/EE(T2)/T-4/5/10-11/13729-43 Dated: 26.03.2011	220/66/11 kV Gas Insulated Switchgear station at EPIP to the existing 66/11 kV sub station at kadugodi.	17.078	218,005,730.3
40	Karnatka Power Transmission corporation Limited(KPTCL)	CEE/T&P/SEE/EE(T2)/T-4/5/10-11/215-30 Dated: 12.04.2011	66/11 kV National college substa-Switchgear station at EPIP to the Sub station	16.036	213,946,700.6
41	Gujrat Energy Transnission Corporation	CE(P)/Proc/III/E-2161/66KV XLPE Cable/kei/4916 Dated: 09.03.2011	66KV GETCO	53.841	105,736,318
42	BSES Yamuna Power Limited	NB/D01/23056406 Dated: 01.02.2012	66 KV cable supply for BSES Project	47.50	91,633,579.17
43	KUKREJA WIRES & CABLES PVT LTD.	PO/1415/0020 Dated: 15.04.2014	ALSTOM BHARAT FORGE POWER LTD.	33.98	48,008,000
44	GETCO	CE(P)/Proc/I/E 2499/66kV XLPE Cable/KEI/2257 Dated: 04.05.2015	66KV GETCO Project in Gujarat	163.3	389,967,839
45	KPTCL	CEE/T&P/SEE/EE(T2)/T-6/2016-2017/2135-48, CEE/T&P/SEE/EE(T2)/T-6/2016-2017/2107-20, CEE/T&P/SEEE/EE(T2)/T-6/2016-2017/2121-34 Dated: 31.05.2016	220/66/11KV Khodays Glass Factory Substation to 66/11KV BTM IV Phase sub-station in Bangaluru South Taluk, Bengaluru urban District	25.689	481,553,652
46	China Kunlun Contrcting & Engineering Corporation	6550.01IC-D016/PDPP-8620-PO-071- 3016 Dated: 09.09.2016	Rath Chakra	80.35	405,044,350
47	TPDDL	4600004051 Dated: 18.04.2018	Rate Contract For SITC Of 66 KV Cables	110.88	764,761,804
48	RamalingamConstruction Company (P) Ltd. Engineering Contractors	REF. NO. : RCCL/KARO/ALE/PO/2019-20/234 Dated: 08.04.2019	Supply of 66KV XLPE UG EHT POWER CABLE as per KPTCL MW Norms and direction .	33.538	284, 737, 620

LIST OF ORDERS RECEIVED AND EXECUTED (HT AB CABLES)

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	P.O DATE	DESCRIPTION OF WORKS	QTY/KM	TOTAL VALUE
1	Capital Power Infrastructure		CPIPL/DHBVN (TED-103,104) P.O-KEI/2009-10/70		11 kV HT ABC CABLE 3CX35+70	50.000	89,00,000.00
2	G.E.T. Power Pvt. Ltd		GET/MPPKVCL/11-12/044 DT 14.10.11		11 kV AL COND XLPE INS AERIAL BUNCHED CABLE		
					3CX120SQ +1CX95	15.800	73,54,900.00
3	G.E.T. Power Pvt. Ltd		GET/MPPKVCL/11-12/045 DT 14.10.11		11 kV AL COND XLPE INS AERIAL BUNCHED CABLE		
					3CX120SQ +1CX95	24.180	1,12,55,790.00
4	KEI -EPC		MAIL DT 10.11.11		11 kV HT AERIAL BUNCHED CABLE		
					3CX120 + 1CX25	119.000	4,41,96,600.00
5	UB Engg. Ltd		UBEL/DEL/E-155/PO-041/12-13/0300 DT 11.05.12		6.35/11 kV (E) AL COND XLPE INS HT AB CABLE		
					3CX120 + 1CX25	50.000	2,25,00,000.00
6	Paschim Gujarat VIJ Co. Ltd		PO.NO. PGVCL/RJT/Proc/e-58293/11KV AB Cable/379/KEI/39 DT 16.07.12		11 kV AL COND XLPE INS AERIAL BUNCHED CABLE		
					3CX70 + 1CX70 SQMM	181.000	5,98,03,486.00
7	Uttar Gujrat VIJ Company Limited		LIO.NO.UGVCL/SP/458/I/KEI/1051	30.03.13	11 kV AL COND ARIAL BUNCH CABLE		
					3 C X 70 + 1 C X 70		
					3 C X 120 + 1 C X 100	29.000	1,05,19,400.00
8	Maheshwari Distributers	HZL	PO:MD/2013-14/2310/287 DT-23.10.13	23.10.13	33 kV (E) AL/XLPE/ CU TAPE/ST-2 SHEATHED/AL-ALLOY MESSG. ABC CABLE		
					3 C X 400 + 1 C X 346	11.000	1,73,25,000.00
					3C X95+80	50.000	2,40,06,600.00
9	Bsr Infrtech India Ltd.	KHB SURYA CITY PH-3	PO.NO.4520000656	18.11.13	11 kV /AL/XLPE/PE-ST-2SHEATHED HT AB CABLE		
					3CX120+1C95	12.000	67,82,040.00
10	Paschim Gujarat VIJ Company	XXX	LOI.NO.PGVCL/RJT/PROC/4457	22.02.14	11 kV (E)/AL/XLPE/ CU-TAPE/PE SHEATHED HT AB CABLE		
					3CX95+80	90.000	3,68,48,700.00

LIST OF ORDERS RECEIVED AND EXECUTED (HT AB CABLES)

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	P.O DATE	DESCRIPTION OF WORKS	QTY/KM	TOTAL VALUE
12	West Bengal State Electricity	NIL	MEMO. NO.P&C/P-20/2013-14/ACE-III/KEI/05	06.06.14	11000V/AL/XLPE/ CU-TAPE/PVC ST-2 SHEATHED HT AB CABLE		
					3c95+1c80	49.500	2,41,73,127.00
13	TPDDL-New Delhi	TPDDL-STORE/SITES	RC.NO.4600002800	23.12.14	11 kV/AL/XLPE/ CU-TAPE/PVC ST-2 SHEATHED HT AB CABLE		
					3C150+1C150 SQMM	18.000	
					1C150+1C55	2.000	1,48,59,160.00

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
1	JINDAL STEEL & POWER LTD	JSPL/Raigarh/HT-Cable/ Addn/12 DT 15/05/2009	11 kV (E) AL XLPE 3CX300 SQMM	17000000
2	JSW STEEL LTD	JSW/WNR/C/HOT/98021/748 DT 07/05/2009	33 kV (E) AL XLPE INS 1CX630 SQMM	17000000
			6.6 kV (UE) AL XLPE INS UN-ARMED	
			3CX150 SQMM UPTO 3CX240 SQMM	
			6.6 kV (E) AL XLPE ARMED 3CX185 SQMM	
3	RELIANCE INFRASTRUCTURE LTD	M03/23032852 DT 14/05/2009	11 kV (E) AL XLPE INS 3CX300 SQMM	23400000
4	BSES RAJDHANI POWER LTD	D01/23033116 DT 26/05/2009	33 kV XLPE AL ARMED 3CX400 SQMM	23500000
5	RELIANCE INFRASTRUCTURE LTD	M03/23033158 DT 27/05/2009	33 kV (E) AL XLPE INS 3CX400 SQMM	75600000
6	KONSTELEC ENGINEERS PVT LTD	0157 DT 30/05/09	11 kV (UE) HT XLPE AL ARMED	
			3CX300 SQMM UPTO 3CX400 SQMM	11100000
7	HPCL - MUMBAI	LOI DT 27/07/09	22 kV (E) XLPE AL ARMED 3CX400 SQMM	9710000
8	BSES RAJDHANI POWER LTD	D01/23034185 DT 13/07/2009	11 kV (E) HT XLPE AL ARMED 3CX300 SQMM	13400000
9	BSES YAMUNA POWER LTD	D01/23034186 DT 13/07/09	11 kV (E) HT XLPE AL ARMED 3CX300 SQMM	74940000
10	BHEL - PEM	PW:PE:MW/ANP/P-381/09 DT 26/08/09	11 kV (UE) XLPE AL UNARMED	
			1CX630 SQMM UPTO 3CX185 SQMM	25400000
			3.3 kV (UE) XLPE AL UNARMED	
			1CX150 SQMM UPTO 3CX185 SQMM	5897000
11	HPCL - MITTAL ENERGY LTD	7200000384 DT 27/08/09	33 kV (E) CU COND XLPE INS ARMED	
			1CX150 SQMM UPTO 1CX400 SQMM	
			6.6 kV (E) CU COND XLPE INS ARMED	354255000
			1CX240 SQMM UPTO 3CX300 SQMM	
			6.6 kV (E) AL COND XLPE INS ARMED	
			3CX185 SQMM UPTO 3CX300 SQMM	
			11 kV (E) XLPE AL UNARMED	
1CX150 SQMM UPTO 3CX150 SQMM				
			11 kV (E) XLPE AL ARMED	

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
			1CX300 SQMM UPTO 3CX150 SQMM	
			3.3 kV (E) XLPE AL ARMED	
			1CX150 SQMM UPTO 3CX95 SQMM	
			3.3 kV (E) XLPE AL UNARMED	
			1CX150 SQMM UPTO 3CX150 SQMM	
12	BSES RAJDHANI POWER LTD	D01/23035644 DT 17/09/09	11 kV (E) HT XLPE AL ARMED 3CX300 SQMM	13400000
13	L & T LTD	EBG/ESE/WRO/LOI-MONORAIL-MV CABLE DT 22.09.09	22 kV (E) HT XLPE CU 1CX400 SQ TO 3CX300 SQMM	330000000
14	BSES YAMUNA POWER LTD	D01/23036990 DT 18/11/09	33 kV HT XLPE AL ARMED 3CX400 SQMM	9811000
15	BSES RAJDHANI POWER LTD	D01/23036970 DT 17/11/09	33 kV HT XLPE AL ARMED 3CX400 SQMM	13000000
16	EASTERN COALFIELDS LTD	ECL/PUR/03/POWERCABLE/2009-10/F-488 DT 28.11.09	3.3, kV MINING 3CX95 SQMM	10500000
17	ADANI PETRONET	4500016391 DT 30.11.09	6.6 kV (E) AL 3CX185SQMM UPTO 3CX300 SQMM	18900000
18	JVVNL	JPD/SECPROC/SP0-1/TN-4251/D 6511	11 kV (E) HT XLPE AL ARMED 3CX120 & 3C X185 SQMM	44500000
19	KSEB	TCM - 184/2009-10/6646 DATED 17.02.10.	11 kV (E) HT XLPE /AL/ ARMED 3C X 300 SQMM	43300000
20	ESSAR PROJECTS (INDIA) LTD	PH01/E04/610015762 DT 03.02.10.	33 kV HT XLPE AL/ARMED 3C X 300 SQMM	26300000
21	BIECCO LAWRI LTD	LOI; PUR/NTR/LOI/33 kV CABLE/09-10/11 DT. 23.02.10.	33 kV (E) HT XLPE/AL/ ARMED 3C X 300 SQMM	16700000
22	BIECCO LAWRI LTD	PUR/NTR/LOI/33 kV DT 23.02.10.	33 kV (E) HT XLPE AL/ ARMED 3C X 300 SQMM	28600000
23	MCNALLY BHARAT ENGINEERING CO. LTD.	10005464 DATED 24.02.10.	3.3 kV & 11 kV (UE)HT XLPE/AL/ARMED 3CX50 TO 3CX240	19500000
24	BRAHMAPUTRA CRACKER	BCPL/C &P/MR -0550/024/SK/2011 DT. 04.03.10.	6.6 kV (UE) HT XLPE/AL/ ARMED 3 C X 300 SQMM	25400000
25	INDIAN CABLES & ELECTRICAL	MAIL & P.O. 004 DATED 05.03.10.	22 kV(E) & 11 kV (E) HT XLPE AL/ARMED 3CX300 SQMM	19300000
26	JINDAL STEEL & POWER LTD	4571001288 DATED 06.03.10.	33 kV (UE), 3.3 kV, 11 kV HT XLPE/AL 1CX630 TO 3CX300	15800000
27	CESE LTD	DGM: MAT : 1178 DT 22.03.10.	11 kV E0 HT XLPE AL/ ARMED 3CX 300 SQMM	33500000
28	GVPR ENGINEERS LTD	LOI/1001/N/GVPR/09-10/18 DATED 10.03.10.	33 kV & 11 kV (E) AL/ARMED/ SCRND CABLE 3C X 300 SQMM	89600000
29	JSW STEEL LTD	JSW/VJNR/C/10M/70051/3068 DATED 11.03.10.	6.6 kV (UE) HT AL/XLPE/ ARMED 3CX95 TO 3CX240 SQMM	44300000
30	MANGALORE REFINERY	SKG/6782 - 000-XT - MR - 0230/25/105/P3-0116	33 kV (E) HT XLPE CU/ ARMED 1CX 158 TO 1CX 630 SQMM	14930000

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
31	POWER GREN INFRASTZ LIC	4500018167 DATED 12.03.10.	11kV (UE) & 6.6KV (UE) HT XLPE AL/1CX400 TO 3CX300SQMM	52600000
32	JSW STEEL LTD	JSW/VJNR/C/10M/70054/3069 DT. 11.03.10.	6.6 kV (UE) HT XLPE/AL/ ARMD 1CX630 SQMM TO 3CX240	33700000
33	AREVA T&D INDIA LTD	5427-4500377623 DT 13.04.10	33 kV (E) HT/XLPE/CU 1CX630 SQMM	
			33 kV (E) HT/XLPE/AL 1CX185 SQMM	10397000
			11 kV (UE) HT/XLPE/AL 1CX185 SQMM	
			1C X 300 TO 3C X 185 SQMM	28500000
34	LANCO INFRA TECH LTD	LITL/ANPARA/ELEC/HT CABLE/LOA/046 DT 06.05.10.	11 kV (E) HT XLPE/AL/ ARMD 3CX 240 SQMM	13700000
35	TECHNO ELECTRIC & ENGG	05638/10-11/152 DT 04.05.10.	11 kV & 33 kV (E) HT XLPE/ AL/ARMD 3C X 300	51600000
36	L & T LTD	VEM11/PUR/PJC/LOI/ELE/12 DT 28.04.10.	6.35/11/11 kV (E) & 11/11 kV/ (UE), 6.6 kV (E) HT XLPE/AL/ CU	15000000
37	BINA POWER SUPPLY CO.	BPSCL-BTPCABLES - 20 AMD -1 24-05.10.	6.6 kV & 3.3 kV XLPE/ AL/UN-ARMD 1CX500 TO3CX240 SQM	14700000
38	RELIANCE INFRAT. LTD	M03/23041597 DATED 25.05.10.	33 kV (E) HT XLPE/AL/ARMD 3C X 400 SQMM	29200000
39	TAMIL NADU ELECTIY BOARD	58/D.279/10 DATED 29.05.10.	33 kV (E) HT XLPE/AL/ARMD 3C X 400 SQMM	13500000
40	PASCHIM GUJARAT VIJ COMPANYY	PGVCL/PCPC/10-11/KEI/185 XLPE/1547 DT 05.06.10.	11 kV (E) HT XLPE/AL/ARMD 3C X 185 SQMM	19500000
41	CESC LTD	CST/66876 DT. 22.06.10.	11 kV (E) HT XLPE/ARMD/ AL 3C X300 SQMM	9816000
42	MADHYA GUJARAT VD CO.	MGVCL/CPC/10-11/2011/11 kV XLPE CABLE	11 kV (E) HT XLPE/ARMD/ AL 3C X185 SQMM	21900000
43	DAKSHIN GUJARAT VIJ CO.	DGVEL/SP/CPC/10-11/5005/ 11KV XLPE CABLE	11 kV (E) HT XLPE/AL/ ARMD 3CX 185 & 3CX 150 SQMM	43200000
44	ESSAR PROJECTS INDIA LTD	PH01/E-04/610018333 DT. 11.05.10	33 kV (UE) HT XLPE/AL/ ARMD 3 C X 400 SQMM	133000000
45	CENTRIAL POWER DISTRI. CO.	CGM/P & MM/E - 32/STN - 151/09/LOI D. NO. 2004/10	33 kV (E) HT XLPE/AL/ARMD 3 C X 400 SQMM	99000000
46	ABB LTD	3191227361 DT 13.11.10.	33 kV HT XLPE/CU/ARMD 1CX500 SQMM	15000000
47	ESSAR STEEL (HAZIRA) LTD	ESHL - SEZ/ETX/53000270011 DATED 12.07.10	33 kV (E) HT XLPE/AL/ARMD 3CX 300 SQMM	29500000
48	ESSAR PROJECT (INDIA) LTD	VD06/E04/610020580 DT 13.07.10.	33 kV (UE) HT XLPE/CU/ ARMD 1CX 630 SQMM	13900000
49	SOUTH EASTERN COAL FIELDS	SECL/MMW/SEC.11/POWER CABLE/104	3.3 kV HT CABLE/CU/ PVC-A/ARMD 3CX25 TO 3CX150SQMM	53900000
50	ESSAR PROJECTS INDIA LTD.	PH01/E04/610018039 DT 17.04.10.	11 kV & 6.6 kV (UE) HT XLPE/ AL/ARMD 1CX150 TO 3CX 400	25000000
51	UTTAR GUJARAT VIJ CO. LTD	UGVCL/SP/1/CPC/5005/LOI/ KEI/2796 DT. 15.06.10.	11 kV (E) HT XLPE/AL/ARMD 3CX 185 SQMM	836000

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
52	ESSAR PROJECTS (INDIA) LTD	PH01/E04/610019761 DT 18.06.10.	6.6 kV (UE) HT XLPE/AL/ ARMD 3CX 150 TO 3CX 400 SQMM	13500000
53	ESSAR PROJECT (INDIA) LTD	VD06/E04/610019748 DATED 18.06.10.	6.6 kV (UE) HT XLPE/AL/ ARMD/FR 1CX 630 TO 3CX 300	16700000
54	JSW CEMENT LTD	JSW/CEMENT/030 DT 19.08.10.	11KV,6.6,3.3KV(UE)HT XLPE/ARMD 1CX240 TO 3CX300	31600000
55	ESSAR PROJECT (INDIA) LTD	SA01/E04/610015758 DATED 10.02.10.	33 kV (E) HT XLPE/AL/ARMD 3CX400 SQMM	25800000
			11 kV (UE) HT XLPE/AL/ ARMD1CX 300 TO 3CX185 SQMM	19100000
56	ADHUNIK POWER & NATURAL	BM/APNRL/2X270 MW/HV-LV CABLE/59 DT.07.09.10.	33 kV (E) & (UE) 11 kV (E) HT XLPE/FRLS3CX150 TO 3CX300	19300000
57	KRISHAK BHARATI COOPERATIVE	HP/22/05CP/2500212/PO 33316 DATED 03.09.10.	11 kV (UE)HT XLPE/AL/UN- ARMD 1CX630 SQMM	7774000
58	JVVNL JODHPUR		11 kV HT XLPE/AL/ARMD 3CX 50 & 3CX185 SQMM	10700000
59	BSES RAJDHANI POWER LTD	NB/D01/23045430 DATED 04.10.10.	33 kV (E) HTXLPE/AL/ARMD 3CX400 SQMM	15600000
60	ECI ENGG & CONSTR	ECI/ED/DGM/MSEDCL/ MALAGAON/IV.INFR11/PONO	11 kV (E)& 33 kV/HTXLPE/ AL/ARMD 3CX 300 SQMM	26700000
61	LOTUS CONSTRUCTIONS	LOTS/MSEDCL/IP-II/N/ 10-11/006 DT 29.09.10.	11 kV (E) HTXLPE/ARMD 3CX300 SQMM	38700000
62	ICSA INDIA LTD	99/10-11 DSATED - 14.10.10.	33KV(E) HTXLPE/AL/ARMD 3CX400 SQMM	27400000
63	LANCO INFRA TECH LTD	LITC/PL 3& 4/ELEC/BC/LOA/ CBL/036	11 kV (UE) & 3.3 kV (UE) HTXLPE/AL/ARMD1CX70 TO 1CX400	77100000
64	ABB LTD		33 kV (E) HTXLPE/AL/ARMD/ FR 1CX500 SQMM	31100000
			11 kV (UE) HTXLPE/AL/FR 1CX 500 SQMM	4379000
			6.6 kV (UE) HTXLPE/AL/FR/ 1CX 500 SQMM	102000
65	BHEL PEM	PW/PE/PG/TUTI/P-1101/10 DATED 02.11.10.	11 kV (E) HTXLPE/AL/ARMD 1CX630 TO 3CX300	25900000
			3.3 kV (UE) HTXLPE/ AL/ARMD 1CX185,1CX300,3CX185 SQ	7999000
66	TOYO ENGINEERING (IOCL)	PO.6270/PF110/23220384 DT. 14.09.10.	6.6/11KVHTXLPE/CU/ARMD 1CX630 SQMM	21300000
67	CESC LTD	PUR:37879:SC DATED 03.11.10.	11 kV (E) HTXLPE/AL/ARMD 3CX300 SQMM	45600000
68	THE FERTILISERS & CHEM.	MM/TW/1537/4500001868 DATED 05.11.10.	3.3 kV HTXLPE/ARMD 3CX400 SQMM	163000
69	TANGEDCO LTD / TAMIL NADU ELECT. BOARD	SE/MMI/EEI/AEE3/Specn.M.29/ 2010-11/PO.NO.212	33 kV (E) AL/XLPE/CU TAPE/ ST-2/DBL.ARMD 3CX 400	43600000
70	JVVNL -JAIPUR	JPD/SE/PROC/SPO-I/TN- 4267/D.3635	33 kV (E) HT XLPE AL ARMD CABLE 3CX 300 SQMM	83600000

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SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
71	MPSEZ UTILITIES PVT LTD	MUPL/HT Cable/016/10-11	11 kV (E) HT XLPE AL ARMD CABLE 3CX 300 SQMM	11200000
72	ESSAR PROJECTS (INDIA) LTD	OR01/E04/610020778	11 kV (UE) HT XLPE AL ARMD1CX630,3CX120 & 3CX300	19400000
73	ABHIJEET PROJECTS LTD.	SKP/APL/CPL-I/HV CAB/PO/534	6.6 kV & 33 kV (UE)HT XLPE/AL/ST-2/ARMD 1CX630 TO 3CX300	52400000
74	ABHIJEET PROJECTS LTD.	SKP/APL/CPL-II/HV CAB/PO/563	6.6 kV & 33 kV (UE) HTXLPE/AL/ST-2/ARMD 1CX630 TO 3CX300	52400000
75	ESSAR PROJECTS INDIA LTD	OR09/E04/610022248	11 kV (UE) HT XLPE/AL/ ARMD 3CX120 & 3CX 185 SQMM	8145000
76	ESSAR PROJECTS INDIA LTD	HS01/E04/610021443	6.6 kV (UE) HT XLPE/AL/ ARMD 3CX300 & 3CX 400 SQMM	8186000
77	JHARKHAND STATE ELECTRICITY BOARD	LOI 93 (S&P)	33 kV (E) HT XLPE/AL/ARMD 3CX 240 TO 3CX 400 SQMM	64100000
78	ADANI INFRA. (INDIA) LTD	4500041781	11 kV (UE) & (E)HTXLPE/AL/ FRLS/ARMD 1CX630 SQMM	16600000
79	BHEL -NOIDA	PW/PE/PG/JTL/P-1607/10	11 kV (E) & (UE) HTXLPE/AL/ ARMD/FRLS 1CX300 TO 3CX300 SQMM	18700000
80	ABB LTD	3191344747	6.6 kV (UE) HTXLPE/AL/ FRLS/ARMD 1CX500 TO 3CX 240 SQMM	11900000
81	LANCO INFRATECH LTD	LITL/ANPARA/ELEC/ADD HT CABLE/LOA/061 (AMEND LOI DT 04.03.11)	11 kV (UE) & 3.3 kV HT XLPE/AL/ARMD/UN-ARMD 1CX300TO3CX240	15400000
82	ESSAR PROJECT (INDIA) LTD	CS01/E04/2700000980	11 kV (UE) & 3.3KV HTXLPE/AL/FRLS/ARMD 1CX 400 TO 3CX400 3.43 CR	34300000
83	CESC LTD.	CST/74661	11 kV (E) HT XLPE/AL/ARMD 3CX 300 SQMM	112100000
84	J&K. POWER DEVELOPMENT DEPT.	CE/PMM/P-27/S-1/10-11/ 666-75	6.35/11KV HT XLPE/AL/ ARMD 1CX630 TO 3CX300 SQMM	12800000
85	ABB LTD	MAIL (PO.NO. 3191357278 DT 18.03.11)	6.35/11 kV HT XLPE/INS/ AL/FRLS/ARMD 1CX 185 TO 3CX2.40 SQMM	9071000
86	RELIANCE INFRASTRUCTURE LTD	REL/Butibori TPP/CPG-18893 /HT CABLE/LOA/01	3.8/6.6 kV HTXLPE/AL/ FRLS/ARMD 3CX70 TO 3CX 400 SQMM	12500000
87	GUPTA ELECTRIC STORE	MAIL	33 kV & 11 kV (E)HTXLPE/ AL/ARMD 3CX 300 & 3CX400 SQMM	45100000
88	TECHNOFAB ENGG. LTD	DO:3495/LOI/12 AMEND-1	11 kV (UE) HTXLPE/CU/ ARMD 3CX 300 & 3CX 400 SQMM	23100000
89	BMM ISPAT LTD	BMMIL/PLT 2/27	11 kV (UE) HTXLPE/INS/AL/ ARMD 3CX 150 TO 3CX 300 SQMM	11200000

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SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
90	HI- TECHNOCRATS PVT. LTD		6.6 kV (UE) & 33 kV (E) HT XLPE/INS/FR/ARMD 3CX 185 SQMM	2300000
91	LANCO INFRATECH LTD	LITL/UPCL#3&4/ELEC/ HTCABLE/ LOA/001	11/11 kV (UE) HT XLPE/INS/ FRLS/ARMD 3CX 300 SQMM	8190000
92	MUNDRA PORT & SPECIAL ECONOMIC ZONE LTD. (ADANI)	4500048687	11 kV (E) HT XLPE/INS/AL/ ARMD 3CX185 & 3CX300 SQMM	13500000
93	EASTERN COALFIELDS LTD	05821017 (40)	3.3 kV HT/PVC/INS/CU/ COND/ARMD 3CX35 TO 3CX 120 SQMM	33800000
94	BSES RAJDHANI POWER LTD	NB/D01/23050603	11 kV (E) HTXLPE/INS/AL/ ARMD 3CX 300 SQMM	13300000
95	LANCO INFRATECH LTD	LITL/LS-MP/ELEC/HT- CABLES/LOA/019	11 kV & 3.3 kV (UE) AL/ HTXLPE/FRLS/ARMD 1CX185 TO3CX300SQM	11100000
96	KAZSTROY SERVICE INFRAST. INDIA PVT. LTD	PRC/EPC-03/PDRP/ELEC/ PO/073	11 kV (E) & 3.8/6.6 kV/ AL/HTXLPE/SCR/ARMD 3CX240 &3CX300	35000000
97	J.D. CORPORATION	008/11-12 (NKG/GPCL/ CABLE/1/AMEND DT 08.06.11)	11 kV (E) AL/HTXLPE/ARMD 3CX70 TO 3CX400 SQMM	35600000
98	BSES RAJDHANI POWER LTD	NB/D01/23051544	33 kV (E) AL/HTXLPE/ARMD 3CX 400 SQMM	11000000
99	L & T LTD	LOI (PO.NO. OGSP-75000- 02877-UKW)	6.6 kV (UE) ATC/COND/EPR/ SCR/ARMD 1CX120 TO 3CX300 SQMM	17300000
100	SHRISTI INFRST. DEVELOPMENT CORP. LTD	DR/SIDCL/1X12MW/Cables/ LOA/004 (PO.NO. SIDCL/ DPSC/1X12MW/CABLES/ PO/11-12/004 DT 14.07.11)	11 kV (UE) AL/HTXLPE/ARMD 1CX 630 SQMM	12240000
101	EIL -NEW DELHI	A043/0210/085/FOA-0182 (P.O. DT 14.07.11)	11 kV (E) & 6.6 kV (E) AL/ HTXLPE/ARMD 1CX 630 TO 3CX 300 SQMM	19200000
102	CABLE HOUSE	NIL	11 kV (E) AL/HTXLPE/FRLS/ ARMD 3CX185 &3CX 300 SQMM	8684000
103	STERLING & WILSON LTD	4200105543	33 kV (E) & 11 kV (UE) & 3.3 kV (UE) AL/HTXLPE/ AR3CX240&3CX300	72400000
104	SHREE CONTRACTOR	72570	33 kV (E) AL/HTXLPE/FRLS/ ARMD 3CX 120 SQMM	13100000
105	MCNALLY BHARAT ENGG. CO. LTD	10014716	11 kV (UE) AL/HTXLPE/ARMD 1CX630 &3CX240 SQMM	33490000
106	L & T LTD	Chemical Plants/75000- 03356/DK	11 kV & 6.6 kV (UE) AL/ HTXLPE/FR/ARMD 1CX 630 TO 3CX300 SQM	71290000
107	SHREE CEMENT LTD	SCL/BWR/11-12/PO-009	6.6 kV (UE) AL/HTXLPE/ ARMD 1CX 630 SQMM	11700000
108	ADANI INFRA (INDIA) LTD	4500057792	11 KV (UE) AL/HTXLPE/ARMD 1CX 240 SQMM	21300000
109	TOYO ENGG. INDIA LTD (IOCL -LODHI ROAD)	6270/PF/416	11 kV & 3.8/6.6 (E) CU/ HTXLPE/FRLS/ARMD 1CX630 SQMM	9782000

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110	ABB LTD	3191392283	6.6 kV (UE) AL/HTXLPE/ ARMD 3CX 185 & 3CX 240 SQMM	8447000
111	MADRAS REGIONAL PURCHASE UNIT	MRPU/IGCAR/ELE/5693/ PO/106021	11 kV (E) AL/HTXLPE/W- ARMD 3CX185 TO 3CX 400 SQMM	23600000
112	GUJARAT NARMADA VALLEY FERTILIZERS CO. LTD-BHARUCH	LOI:NIL DT-19.10.11 PO:MM/331/18066 DT-19.10.11	11 kV (UE) AL/HTXLPE/AL/ W-ARMD 1CX 630 SQMM	14000000
113	METALS & METAL (ELECTTRIC) PVT LTD	PO:MMEPL/208/11.12 DT-26.08.11	11 kV (UE) AL/HTXLPE/ FRLS/ARMD 3CX400 SQMM	12300000
114	SIEMENS LTD	BY MAIL (LOI. Siemens/ICS/ 12315/2011-12 DT 24.11.11) PO.NO. 4503634389 DT 05.12.11	33 kV (E) & 6.6 kV (UE) AL/HTXLPE/ARMD 3CX30&3CX400 SQMM	24700000
115	BSES RAJDHANI POWER LTD	NB/D01/23054276	11 kV (E) AL/HTXLPE/ARMD 3CX 300 SQMM	14000000
116	ADANI POWER LTD	4500063205	11 kV (UE) AL/HTXLPE/ARMD 3CX 300 SQMM	8880000
117	RELIANCE INFRAT. LTD	NBC/M03/23053767	33 kV (E) AL/HTXLPE/ARMD, 3CX400 SQMM	13000000
118	RAMKY INFRASTRUCTURE LTD	RIL/Mahainfra/1109280242	11 kV (E) AL/HTXLPE/ARMD 3CX 300 SQMM	11200000
119	BPCL -MUMBAI	P&CS:CCR:N20-172	11 kV (E)AL/HTXLPE/FRLS/ ARMD 3CX240 SQMM	8002000
120	JAIPRAKASH POWER VENTURES LTD.	JPVL-JBTPP-HT< CABLES (ADD.)	6.6 kV & 3.3 kV/AL/HTXLPE 1CX500 TO 3CX 300 SQMM	16900000
121	HYTHRO POWER CORP. LTD (G.E.T. POWER PVT. LTD)	HPCL/11-12/333/252 (PO.NO. GET/KTPP/11-12/085 DT 19.12.11)	11 kV, 6.6 kV & 3.3 kV/AL/ HTXLPE/ARMD 1CX70 TO 3CX300 SQMM	27000000
122	BHEL HYD.	T711A00407	11 kV & 6.6 (UE) CU/AL/ HTXLPE/FRLS/ARMD 1CX630 TO3CX300	41850000
123	ABB LTD	BY MAIL	6.6 kV (UE) AL/HTXLPE/ FRLS/ARMD 1CX630 TO 3CX300 SQMM	13100000
124	LANCO INFRATECH LTD	LITL/LPL 3&4/ELEC/HT CABLE/LOA/042	11 kV (UE) AL/HTXLPE/FRLS/ ARMD 1CX 800 SQMM	21900000
125	MUNDRA PORT & SEZ LTD.	4500067072	11 kV (E) AL/HTXLPE/FRLS/ ARMD 3CX150 & 3CX300 SQMM	17500000
126	BPCL -MAHUL	P&CS:CCR-U&Q: N20-42	33 kV (E) & 6.6 kV (UE) CU/ AL/HTXLPE/FRLS/ARMD 1CX630 &3CX300	45300000
127	CESC LTD	MAIL (LOI NO. PUR:39412:PBS DT 02.01.12) (PO.NO. CST/ 84066 DT 03.01.12)	11 kV (E) CU/HTXLPE/ARMD 1CX630 SQMM	16800000
128	ABB LTD	LOI BY MAIL	11 kV (E) & 11 kV(UE)CU/ HTXLPE/ARMD 3CX95 TO3CX300 SQMM	26600000
129	NDPL	BY MAIL (PO.NO. 3500008129 DT 06.01.12)	11 kV (E)CU/HTXLPE/FRLS/ ARMD 3CX300 SQMM	8114000
130	THE BRIHAN MUMBAI ELECTRIC SUPPLY & T.P.O.	B/105628/171	33 kV (E)CU/HTXLPE/ARMD 3CX300 SQMM	850000
131	OFFICE OF THE EXECUTIVE ENGINEER (GOA ELECT. DEPT.)	EE-IV/O&M/Tech-Tender05(11)/6789/11-12	33 kV (E)AL/HTXLPE/FR/ ARMD 3CX400 SQMM	96800000

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SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
132	BHARAT ELECTRICAL CONT. & MFRS. PVT. LTD	LOA NO. BECMPL/H.O./ 12/2989	33 kV & 11kV(E)AL/HTXLPE/ ARMD 3CX95 TO 3CX300 SQMM	99400000
133	EIL -NEW DELHI	GAIL/C&P/A096-000-XT- PR-0201/092/279	11kV & 6.6 kV(E)CU/AL/ HTXLPE/FR/ARMD 1CX400 TO 3CX300 SQMM	26600000
134	CESC LTD	LOI No. : PUR:39486:PBS (PO. NO. CST/84331 DT 17.01.12)	11 kV(E) AL/HT XLPE/ARMD 3CX300 SQMM	76700000
135	MONNET ISPAT & ENERGY LTD	MIEL/HO/PRJ-5/SMS/HT Cable/POH11-00/418	33 kV(UE) & 6.6 kV(E)AL/ HTXLPE/ARMD 1CX630 & 3CX400 SQMM	22800000
136	RELIANCE INFRAS. LTD	NBC/M03/23055763	11kV & 33 kV(E) AL/HT XLPE/ARMD 3CX300 & 3CX400 SQMM	64200000
137	EIL - NEW DELHI (GAIL INDIA LTD)	GAIL/C&P/A096-000-XT- PR-0200/088/307	33 kV(E) CU/ HT XLPE/ ARMD 1CX 185 TO 1CX 630 SQMM	97800000
138	RELIANCE INFRASTRUCTURE LTD	REL/Mumbai Discom/CPG- 21618/LOA/001	33 kV(E)AL/HTXLPE/ARMD 1CX1000 & 3CX240 SQMM	10100000
139	BHEL -HYD.	T711A00484	11 kV(UE) AL/HT XLPE/ ARMD 1CX630 & 3CX300 SQMM	11200000
140	BSES YAMUNA POWER LTD	NB/D01/23056296	11 kV(E) AL/HT XLPE/ARMD 3CX300 SQMM	9345000
141	ADANI HAZIRA PORT PVT. LTD	PO.NO. 4500074630	11 kV & 3.3 kV(E) AL/HT XLPE/FRLS/ARMD 3CX150 & 3CX300 SQ	14000000
142	GUJARAT NARMADA VALLEY FERTILIZERS CO. LTD	TDI/ 10499	11 kV & 33 kV(E) AL/HT XLPE/ARMD 1CX300 TO 3CX240 SQMM	27800000
143	L&T LTD	LOI:NIL DT-17.02.12	11 kV & 33 kV/AL/ HT XLPE/ ARMD 3CX400 SQMM	20800000
144	SAIL	LOA:SAIL/BSP-CPA/ MKT(15-16)AL XLPE HT CABLES/2011-02/004/1282 DT-15.02.12	11/11 kV/HT XLPE/FRLS/ ARMD 3CX70 TO 3CX 500 SQMM	15200000
145	BIecco LAWRIE LTD	PO:PR/PK-1/042/ORD-105 DT-17.02.12	33 kV(E)AL/HT XLPE/ARMD 3CX300 SQMM	8890000
146	TECPRO SYSTEMS LTD	CB0969003495	33 kV(E)AL/HT XLPE/FRLS/ ARMD 1CX500 SQMM	23800000
147	IOCL -VADODARA	JRMM115129/ 23554864	11 kV(UE)CU/HT XLPE/ ARMD 3CX300 SQMM	13000000
148	ELECTROTECH INDIA	BY MAIL	33 kV(E) AL/HT XLPE/ARMD 3CX300 SQMM	15700000
149	EIL -NEW DELHI	FOA.NO. 6907-070-XT- PO-0570/0161/0761	33 kV(E) & 6.6kV(UE)HT XLPE/FR/ARMD 1CX300 TO 3CX185 SQM	13200000
150	BHEL BHOPAL	PO.NO. 1815490	11 kV(E)AL/HT XLPE/ARMD 3CX300 SQMM	85500000
151	ACCORD (INDIA) ENTERPRISES	AIE/ORD/09/11/3128	11 kV(UE)AL/HT XLPE/ ARMD 1CX300 SQMM	11500000
152	BHEL -PEM	PW/PE/PG/BL3/P-1014/11	11/11 & 3.3/3.3 kV/AL/HT XLPE/ARMD 1CX240 TO 3CX240 SQMM	38400000

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SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
153	BHEL-PEM	PW/PE/PG/YTP/P-1019/11	3.3/3.3 kV/AL/HT XLPE/ ARMD 1CX240 TO 3CX240 SQMM	25200000
154	ULTRATECH CEMENT LTD	CPC/MUM/RAWAN-II/LOI/68/2012-13	11 kV & 6.6 kV(UE)AL/ HT XLPE/ARMD 3CX300 &3CX400 SQMM	47900000
155	ULTRATECH CEMENT LTD	CPC/MUM/RC-IV/LOI/82/2012-13	11 kV 7 6.6 kV(UE)AL/HT XLPE/ARMD 3CX300 & 3CX400 SQMM	81200000
156	AMIANIT FIBERGLASS INDUSTRIES INDIA PVT. LTD	PO.NO. 4121300003-1	11 kV(E)AL/HT XLPE/ARMD 3CX120 SQMM	10200000
157	NUMALIGARH REFINERY LTD (NRL)	NRL/WAX-066/ A151/89 (PO.NO. 4500011260/WAX-066/A151/0089 DT 31.07.12)	11kV & 6.6 kV(UE)AL/ HT XLPE/FR/ARMD 1CX1000 SQMM	9156000
158	MEJA URJA NIGAM PVT. LTD A/C NTPC LTD	MUNPL/C&M/Contracts/12-13/NOA-0038	11/11 kV, 6.35/11kv/ AL/HT XLPE/FRLS/ ARMD/1CX150TO3CX150	45400000
159	CESC LTD	CST/87063	11 kV(E)CU/HT XLPE/ARMD 1CX630 SQMM	11100000
160	CESC LTD	CST/87069	33 kV(E)CU/HT XLPE/ARMD 1CX630 SQMM	23700000
161	BRIHANMUMBAI ELECTRIC SUPPLY & TRN.	PO.NO. B/105978/171	6.35/11 kV E/AL/HT XLPE/ ARMD 3CX 240 SQMM	45800000
162	IOCL -LODHI ROAD	FOA NO. PDRP-7145-8920/046	6.35/11 kV/AL/HT XLPE/ ARMD 3CX400 SQMM	44200000
163	BHEL -PEM (NOIDA)	PW/PE/PG/SGD/P-123/12	11/11 kV & /3.3/3.3KV/AL HT XLPE/FRLS/ARM/UN-A 1CX300 TO3X185	35100000
164	JOGIN ELECTRICALS	PO.NO. 8/12-13	6.35/11 kV(E)AL/HT XLPE/ ARMD 3C X 95 & 3C X 240 SQMM	13100000
165	MCNALLY BHARAT ENGG CO. LTD	PO.NO. 10020992	11 kV(UE)AL/HT XLPE/ FRLS/ARMD 3C X 120 & 3C X 185 SQMM	11000000
166	BSES RAJDHANI POWER LTD	PO.NO. NB/D01/ 23059689	33 kV(E)AL/HT XLPE/ARMD 3C X 400	35200000
167	ABB LTD	PO.NO. 3191468565	11 kV(E) & (UE) CU/HT XLPE/ARMD 3C X 95 TO 3C X 300 SQMM	29900000
168	FLSMIDTH PVT. LTD	LOI BY MAIL (PO.NO. FLSA/B/34433 DT 12.08.12)	33 kV(E) & 6.6 kV (UE) AL/HT XLPE/FRLS/ARMD 3C X 50 TO 3C X 300	16700000
169	L & T LTD	MOM (PO.NO. E5485PO2000135 DT 23.08.12)	11 kV(E) AL/ HT XLPE/ ARMD 3C X 185 SQMM	9350000
170	KERALA STATE ELECTRICITY BOARD (KSEB)	CS(TS)/EE2/969/Add-IISER Vithura Cable laying/704	33 kV(E) AL/HT XLPE/ ARMD 3C X 300 SQMM	35700000
171	KMA ELECTRICALS PVT LTD	PO:KMA/ACIL/19/2012-13 DT-29.08.12	33 kV(E) AL/HT XLPE/AL-W- ARMD/1C X 300 & 3C X 300 SQMM	8115000
172	SUNCITY ENTERPRISES	SE/149	33 kV(E)AL/HT XLPE/ARMD 3C X 300 SQMM	18400000
173	TECPRO SYSTEMS LTD	PO.NO. CB1036001716	33 kV(E)AL/HT XLPE/FRLS/ ARMD 1C X 500 SQMM	28600000

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
174	TATA PROJECTS LTD	PO.NO-SBU-O&G/Cairn Energy-Aishwariya/425	33 kV(E) & 6.6 kV(UE) CU/ HT XLPE/ARMD 3C X 120 & 3C X 240 SQMM	21100000
175	CAIRN ENERGY INDIA PTY. LTD	BY MAIL	6.6 kV(UE) CU/HT XLPE/ ARMD/ FRLS 3C X 50 SQMM	13700000
176	Tata Steel Ltd.	PO No.:2100296400/101	6.6 kV(UE) 6.6 kV(UE) AL/ HT XLPE/ARMD 3C X 300 SQMM	10200000
177	ALSTOM T&D INDIA LTD	PO.NO. 5427-4500591886	11 kV(UE) & 3.3 kV AL/HT XLPE/ARMD 1C X 630 TO 3C X 240 SQMM	11400000
178	G.E.T. POWER LTD	GET/11-009/12-13/755	11 kV-6.6 kV(UE)AL/HT XLPE/ARMD 1C X 70 TO 3C X 300 SQMM	35200000
179	NKG INFRASTRUCTURE LTD	LOI.NO. SE/NKG/R-APDRP/12	11 kV & 33 kV(E)AL/HT XLPE/ARMD 3C X 35 TO 3C X 300 SQMM	24800000
180	LINDE ENGG. INDIA PVT. LTD	PO.NO. 002 2EA2800 Sup. 000	6.6 kV(UE) CU/AL/HTXLPE/ ARMD 1C X 500 TO 3C X 185 SQMM	19800000
181	AMBA RIVER COKE LTD	ARCL/DOLVI/SCMPP/2012/ PELLET PLANT/312 (PO.NO. 3300000532/9100726281 DT 21.12.12)	33 kV(UE)AL/HT XLPE/ FRLS/ARMD 1C X 630 SQMM	31600000
182	STERLING & WILSON LTD	LOI. (SR.NO. 16577(11))	11 kV & 33 kV(E) AL/HT XLPE/ARMD 3C X 185 TO 3C X 400 SQMM	14800000
183	ACCORD (INDIA) ENTERPRISES	PO.NO. AIE/ORD/10/12/3144	11 kV(UE)AL/HT XLPE/ ARMD 1C X 300 SQMM	11100000
184	L&T CONSTRUCTION	LTCD/WET/DLCO/LOI/12-13 (PO.NO. E8860PO3000001 DT 05.01.13)	11 kV(UE) AL/HT XLPE/ FRLS/ARMD 3C X 185 TO 3C X 300 SQMM	18700000
185	SHREE ELECTRICALS & ENGINEERS (INDIA) PVT. LTD	PO.NO. 599/NTPC/PALLAKAD	11 kV(E) AL/ HT XLPE/ FRLS/ARMD 1C X 300 TO 3C X 400 SQMM	13300000
186	CENTRAL POWER DISTRIBUTION CO. (CPDCL)	LOI NO. CGM/P&MM/E-32/STN-300/12/LOI/D.NO.6181/12	11 kV(E) AL/HT XLPE/ARMD 3C X 300 SQMM	29600000
			3C X 400 SQMM	13000000
187	R.G. ELECTRICALS & EARTH MOVERS	NIL	33 kV (E) & 11KV(E)AL COND XLPE INS ARMD HT CABLE	
			1C X 630 & 3C X 240 SQMM	13000000
			3C X 240 SQMM	21700000
			3C X 300 SQMM	45200000
188	SIDDHI VINAYAK CEMENT PVT. LTD	LOI.NO. SVCPL/FO/LOI-113/2012-13/ ADM	11 kV (UE) & 22 kV(E) AL COND XLPE INS ARMD HT CABLE	
			1C X 150 SQMM TO 3C X 400 SQMM	33100000
189	EIL -NEW DELHI	PO.NO. A056/0200/004/013	11 kV (E) AL COND XLPE INS ARMD/ FR HT CABLE	
			3C X 300 SQMM	14100000
			3C X 300 SQMM	9828000
190	TATA PROJECTS LTD	PO.NO. TPL/KOL/NMDC-BF/HT Cable/LOI	6.6 kV (UE) AL COND XLPE INS ARMD HT CABLE	

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
			3C X 185 SQMM & 3C X 240 SQMM	15100000
191	TATA POWER -DDL, (NDPL)- (RC)	CONTRACT NO. 4600002199	33 kV AL COND XLPE INS ARMD HT CABLE	
			1C x 1000 SQMM & 3C x 400 SQMM	1158000
			3C X 185 7 3C X 400 SQMM	12300000
			3C X 120 SQMM & 3C X 300 SQMM	10400000
			1C X 630 SQMM & 3C X 240 SQMM	24000000
			3C X 300 SQMM	13700000
			3C X 300 SQMM	32000000
			3C X 300 SQMM & 3C X 400 SQMM	17400000
192	CENTRAL POWER DISTRIBUTION COMPANY OF A.P LTD	PO.NO.CGM/P&MM/E-32/STN-315/12/PM-3958/12	33 kV AL COND. XLPE INSULATED STEEL WIRE ARM.	
			3C X 300 SQMM	10100000
			1C X 150 SQMM TO 3C X 150 SQMM	34500000
			3C X 240 SQMM & 3C X 300 SQMM	15100000
193	CESC LIMITED	PO.NO.CST/96470	33 kV AL COND. HT CABLE	
			1C X 1000 SQMM	19800000
194	BSES RAJDHANI POWER LTD	PO.NO.NB/D01/23066011	11 kV AL COND. XLPE INSULATION HT CABLE	
			3C X 300 SQMM	25000000
195	BSES RAJDHANI POWER LTD	PO.NO.NB/D01/23066084	11 kV AL COND. XLPE INSULATION POWER CABLE	
			3C X 300 SQMM	19200000
196	CESC LIMITED	PO.NO.CST/96469	11 kV AL COND. XLPE INSULATION POWER CABLE	
			3C X 300 SQMM	22100000
			1C X 185 SQMM TO 3C X 500 SQMM	71700000
			3C X 2400 & 3C X 300 SQMM	32800000
197	DAKSHIN GUJARAT	LOI.NO.DGVCL/SP/8020/22 kV XLPE CABLE/KEI/LOA/7754	22 kV AL COND. XLPE INSULATION POWER CABLE	
			3C X 185 SQMM	12100000
198	SUNCITY ENTERPRISES	PO.NO.SE/166	11 kV AL COND. POWER CABLE	
			3C X 185 SQMM	28400000
			3C X 240 SQMM	14200000
199	CALCOM CEMENT INDIA LTD.	PO.NO.CAL-UMAR-CLK-DLH-PUO-034	11 kV (UE) AL COND. XLPE INSULATION ARMOUR HT CABLE	
			3C X 120, 3C X 185 & 3C X 300 SQMM	9700000

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
200	NTPC LIMITED	LOA:WR-I HQ-C&M-9571-002@-2SU-NOA-32 DT-09.01.13	6.35/11 kV (E)&(UE) AL/ XLPE/ST-2/ARMD/FRLS ST-2 SHEATHED HT POWER CABLE	
			1C X 150 SQMM TO 3C X 150 SQMM	56200000
201	CENTRAL COALFIELDS LIMITED.	PO.NO.171:05:2:04:13-126 (POWER CABLE) Dt: 23.07.13	3.3 kV AL/CU/PVC INS/ DOUBLE ROUND.WI.ARMED. PVC SHEATHED HT CABLE	
			3C X35 SQMM TO 3C X 150 SQMM	9884000
202	L&T LTD	LOI NO:L&T/B&F/HQ-PROC/ 13-14/RBF/228 DT-26.07.13	33 kV (E) & 11kV EAL/XLPE/ CU TAPE/ST-2/S-ARMED/ FR ST-2 SHEATHED HT POWER CABLE	
			3C X 300 SQMM	14100000
203	DAMODAR VALLEY CORPORATION.	PO.NO.CT/CE/T-ES-I(P)/090 Dt: 29.08.13	3.3 kV/AL/CU/PVC/PVC/ POLY.TAPE/STRIP ARMD/ PVC SHEATHED POWER CABLE	
			1C X 630 SQMM TO 3C X 400 SQMM	13900000
204	MICRON ELECTRICALS	PO.NO.ME:3121:2013 Dt: 21.08.13	11 kV/AL/XLPE/ST-2/ SHIEL./STRIP ARMD/PVC ST-2 SHEATHED POWER CABLE	
			3C X 400 SQMM	10400000
205	KBL (PTPL)	PO.NO.20399 Dt: 17.08.13	11 kV/AL/XLPE/ST-2/ AL.STRIP ARMD./FRLS PVC ST-2 SHEATHED POWER CABLE	
			1C x 500 SQMM to 3c x 300 SQMM	16200000
206	SIMON INDIA LTD.	LOI.NO.I-30014/LOI/029 Dt: 19.09.13	11 kV(UE)/CU/XLPE/CU-TAPE/ST-2/AL W-ARMED/ FRLS PVC ST-2 SHEATHED POWER CABLE	
			1C X 400 SQMM	14600000
207	THE SIGARENI COLLIERIES COMPANY LTD.	PO.NO.7600005180 Dt: 20.09.13	3.3 kV/CU/PVC-A/ST-1/W-ARMED/PVC ST-1 SHEATHED HT POWER CABLE	
			3C X 25 SQMM TO 3C X 150 SQMM	50200000
208	TATA POWER SOLAR SYSTEMS LTD.	PO.NO.139078 Dt: 19.09.13	11 kV(UE)/AL/XLPE/ST-2/S-ARMED/FRLS PVC ST-2 SHEATHED HT POWER CABLE	
			3C X 240 SQMM & 3C X 400 SQMM	21500000
209	SUNCITY ENTERPRISES	PO.NO.SE/90 Dt: 21.10.13	33 kV(E)/AL/XLPE/ ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE	
			3C X 300 SQMM	27400000

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
210	BSES YAMUNA POWER LTD.	PO.NO.NB/D01/23069928 Dt: 28.10.13	11 kV(E)/AL/XLPE/ ST-2/ARMD/PVC ST-2 SHEATHED POWER HT POWER CABLE 3C X 300 SQMM	38300000
211	BSES YAMUNA POWER LTD.	PO.NO.NB/D01/23070205 Dt: 08.11.13	11 kV(E)/AL/XLPE/ ST-2/ARMD/PVC ST-2 SHEATHED POWER HT POWER CABLE 3C X 300 SQMM	16400000
212	VA TECH WABAG LIMITED	PO.NO.MBG-PO-13769/ 10P5M Dt: 16.10.13	3.3 kV(UE)/AL/XLPE/ST-2/ ARMD/FRLS PVC ST-2 SHEATHED HT POWER CABLE 1C x 300 SQMM & 3C x 240 SQMM	9738000
213	TPDDL	PO.NO.4600002483 Dt: 28.10.13	33 kV(E)&11kV(E)/AL/XLPE/ ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 1C X 1000 SQMM TO 3C X 400 SQMM 1C X 630 SQMM	68900000 28730000
214	BHEL(BHOPAL)	PO.NO.9638559 Dt: 19.11.13	6.6(UE)/AL/XLPE/ST-2/ UNARMD/PVC ST-2 SHEATHED HT POWER CABLE 1C X 300 SQMM TO 3C X 150 SQMM	10100000
215	MACAWBER BEEKAY PVT LTD.	PO.NO.C-1212/B0-21/8303/ MND/DIR/13/3570 Dt:19.11.13	6.6 kV/(UE)/AL/XLPE/ ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 185 SQMM & 3C X 240 SQMM	15000000
216	NCC LTD.	LOI.NO.NCC/KSEB-RAPDRP/ KOCHI/003/LOI/13-14 Dt:22.10.13	11 kV(E)/AL/XLPE/CU- TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	76700000
217	TPDDL-NEW DELHI	PO.NO.RC.NO460002544 Dt: 19.12.13	11 kV(E)/AL/XLPE/CU- TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	39400000
218	KEI EPC.	LOI.NO.7590/S.E.(MM)/DVVNL- MM/1147-2013 Dt:21.12.13	11 kV(E)/AL/XLPE/ ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 120 SQMM TO 3C X 300 SQMM	64900000
219	ALSTOM T&D INDIA LTD.	PO.NO.MAIL Dt: 31.12.13	11 kV(E) & 33 kV(UE)AL/ XLPE/CU-TAPE/ST-2/ ARMD/FRLS PVC ST-2 SHEATHED HT POWER CABLE	

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
			1C X 630 SQMM TO 3C X 300 SQMM	63900000
220	BE CONTRACT PVT.LTD.	PO.NO.BE-13/IREO-06/PKP/ 5065 Dt: 30.12.13	11 kV(E)AL/XLPE/CU-TAPE/ ST-2/ARMD/FRLS PVC ST-2 SHEATHED HT POWER CABLE 3C X 240 &3C X300 SQMM	25600000
221	NTPC	LOA.NO.-WR-HQ-C&M- 9571-002- 2-SU-NOA-16/1785 Dt: 27.11.13	6.35/11(E)&(UE)/AL/XLPE/ CU-TAPE/ST-2/ARMD/ PVC ST-2 SHEATHED HT POWER CABLE 1C X 150 SQMM TO 3C X 150 SQMM	49400000
222	TATA STEEL	LOI.NO.E&P/ENV//LOI/07/2014 Dt: 16.01.14	6.6 kV(UE)/AL/XLPE/CU- TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 240 SQMM & 3C X 300 SQMM	13700000
223	ELECTROTECH INDIA	PO.NO.130 Dt: 14.01.14	33 kV E & 11 kV(E)/AL/XLPE/ CU-TAPE/ST-2/ARMD/ PVC ST-2 SHEATHED HT POWER CABLE 3C X 35 SQMM TO 3C X300 SQMM	8354000
224	CALCOM CEMENT INDIA LTD.	PO.NO.CAL-UMAR-CLK-DLH- PUO-034 Dt: 19.06.13	11 kV, 6.6 kV & 3.3 kV (UE)AL COND. XLPE INSULATION ARMOUR HT CABLE 3C X 150 SQMM TO 3C X 300 SQMM	9700255
225	ABB	PO:3191559901 DT-17.05.13	6.6 kV(UE) AL/XLPE/CU TAPE/ST-2/S-ARMD/FRLS ST-2 SHEATHED HT CABLE 1C X 630 SQMM TO 3C X 300 SQMM	15342875
226	IRCON INTERNATIONAL LIMITED	LOI:IRCON/ELECT/5020/ DMRC.CE-6 LOT-1/HV & LV CABLE/17 DT-22.07.13	33 kV, 25 kV & 3.3 kV(E) CU/ AL/XLPE/CU TAPE/FRLS ST-2 SHEATHED HT POWER CABLE 1C X 150 SQMM TO 1C X 400 SQMM	19051172
227	STERLING & WILSON LTD (PTPL)	SR NO:20236 DT-08.07.13	11 kV (E) & 33 kV (E) AL/ XLPE/CU TAPE/ST-2/S- ARMD/ST-2 SHEATHED HT POWER CABLE 3C X 120 SQMM TO 3C X 400 SQMM	9554666
228	NTPC LIMITED	LOA:WR-I HQ-C&M-9571- 002@-2SU-NOA-32 DT-09.01.13	11/11 kV (UE) & 11 kV (E) AL/XLPE/CU TAPE/ ST-2/ARMD/FRLS ST-2 SHEATHED HT POWER CABLE 1C X 150 SQMM TO 3C X 150 SQMM	56212605

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
229	CENTRAL COALFIELDS LIMITED.	PO.NO.171:05:2:04:13-126 (POWER CABLE)	3.3 kV AL/CU/PVC INS/ DOUBLE ROUND.WI.ARMED. PVC SHEATED HT CABLE	
			3C X 35 SQMM TO 3C X 150 SQMM	9884775
230	L&T LTD	LOI NO:L&T/B&F/HQ-PROC/ 13-14/RBF/228 DT-26.07.13	33 kV (E) & 11 kV(E) AL/ XLPE/CU TAPE/ST-2/S- ARMED/FR ST-2 SHEATHED HT POWER CABLE	
			3C X 300 SQMM	14191870
231	DAMODAR VALLEY CORPORATION.	PO.NO.CT/CE/T-ES-I(P)/090 Dt: 29.08.13	3.3 kV(E)/AL/CU/PVC/PVC/ POLY.TAPE/STRIP ARMED/ PVC SHEATED HT POWER CABLE	
			1C X 630 SQMM TO 3C X 400 SQMM	13948050
232	SUN TECHNOLOGIES	PO.NO.ST/KEI/30/13-14 Dt: 14.08.13	11 kV(E)/AL/XLPE/ST-2/ STRIP ARMED/PVC ST-2 SHEATED HT POWER CABLE	
			3C X 400 SQMM	10410907
233	TOWN ELECTRIC SUPPLY CO.LTD.	PO.NO.7317/NIT-94/NTESC/ 11 kV XLPE CABLE/KEI, Dt: 02.09.13	11 kV(E)/AL/XLPE/ST-2/ CU-TAPE/STRIP ARMED/PVC ST-2 SHEATED HT POWER CABLE	
			3C X 300 SQMM	11058377
234	THE SIGARENI COLLIERIES COMPANY LTD.	PO.NO.7600005180 Dt: 20.09.13	3.3 kV/CU/PVC-A/ST- 1/W-ARMED/PVC ST-1 SHEATHED HT POWER CABLE	
			3C X 25 SQMM TO 3C X 150 SQMM	50252398
235	BSES YAMUNA POWER LTD.	PO.NO.NB/D01/23069928 Dt:28.10.13	11 kV(E)/AL/XLPE/ ST-2/ARMED/PVC ST-2 SHEATHED POWER HT POWER CABLE	
			3C X 300 SQMM	38382750
236	BSES YAMUNA POWER LTD.	PO.NO.NB/D01/23070205 Dt:08.11.13	11 kV(E)/AL/XLPE/ ST-2/ARMED/PVC ST-2 SHEATHED POWER HT POWER CABLE	
			3C X 300 SQMM	16449750
237	VA TECH WABAG LIMITED	PO.NO.MBG-PO-13769/10P5M Dt:16.10.13	3.3 kV(UE)/AL/XLPE/ST-2/ ARMED/FRLS PVC ST-2 SHEATHED HT POWER CABLE	
			3C X 240 SQMM & 3C X 300 SQMM	9738060
238	TPDDL	PO.NO.4600002483 Dt: 28.10.13	33 kV(E) & 11 kV(E)/AL/ XLPE/ST-2/ARMED/PVC ST-2 SHEATHED HT POWER CABLE	
			1C X 1000 SQMM & 3C X 400 SQMM	68990189

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
239	CESC LTD.	PO.NO.CST/103751 Dt: 08.11.13	33 kV(E)/AL/XLPE/ST-7/ ARMED/HDPE ST-7 SHEATHED HT POWER CABLE	
			1C X 1000 SQMM	8551268
240	JVNLI(SAIDUR)	PO.NO.JPD/SE/PROC/SPO- 1/TN-4401/D4334 Dt:13.11.13	11 kV(E)AL/XLPE/ST-2/S- ARMED/ST-2 SHEATHED HT POWER CABLE	
			3c x 120 SQMM & 3C X 300 SQMM	23552431
241	BHEL(BHOPAL)	PO.NO.9638559 Dt:19.11.13	6.6(UE) & 11kV(UE)AL/ XLPE/ST-2/UNARMED/PVC ST-2 SHEATHED HT POWER CABLE	
			1C X 300 SQMM & 3C X 150 SQMM	10171090
242	MACAWBER BEEKAY PVT LTD.	PO.NO.C-1212/BO-21/8303/ MND/DIR/13/3570 Dt: 19.11.13	6.6 kV(UE)/AL/XLPE/ ST-2/ARMED/PVC ST-2 SHEATHED HT POWER CABLE	
			3C X 185 SQMM & 3C X 240 SQMM	15019930
			1C X 185 SQMM TO 3C X 185 SQMM	9583925
243	NCC LTD.	LOI.NO.NCC/KSEB-RAPDRP/ KOCHI/003/LOI/13-14 Dt: 22.10.13	11 kV(E)/AL/XLPE/CU- TAPE/ST-2/ARMED/PVC ST-2 SHEATHED HT POWER CABLE	
			3C X 300 SQMM	76780000
244	PRAKASH ELECTRICALS ENG.	PO.NO.PEEC/PO/421/13-14 Dt: 26.11.13	33 kV(E) & 11 kV(E)/ AL/XLPE/CU-TAPE/ ST-2/ARMED/PVC ST-2 SHEATHED HT POWER CABLE	
			3C X 300 SQMM	16668000
245	KEI EPC.	LOI.NO.7590/S.E.(MM)/DVNLI- MM/1147-2013 Dt: 21.12.13	11 kV(E)/AL/XLPE/ ST-2/ARMED/PVC ST-2 SHEATHED HT POWER CABLE	
			3C X 120 SQMM TO 3C X 300 SQMM	64982055
246	ALSTOM T&D INDIA LTD.	PO.NO.5427-4500677029 Dt: 31.12.13	33/33 kV(UE) & 11 kV(E)/ AL/XLPE/CU-TAPE/ST-2/ ARMED/FRLS PVC ST-2 SHEATHED HT POWER CABLE	
			1C X 630 SQMM TO 3C X 300 SQMM	69115429
247	BE CONTRACT PVT.LTD.	PO.NO.BE-13/IREO-06/PKP/ 5065 Dt: 30.12.13	11 kV(E)AL/XLPE/CU-TAPE/ ST-2/ARMED/FRLS PVC ST-2 SHEATHED HT POWER CABLE	
			3C X 240 SQMM & 3C X 300 SQMM	25636012

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

Sr. No.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
248	L&T LTD	PO.NO.E9266PO4000019 Dt: 04.01.14	33 kV(UE)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	9394800
249	NTPC	LOA.NO.-WR-HQ-C&M-9571-002-2-SU-NOA-16/1785 Dt: 27.11.13	6.35/11(E) & (UE)/AL/XLPE/CU-TAPE/ST-2/ARMD & UNARMD/PVC ST-2 SHEATHED HT POWER CABLE 1C X 150 SQMM TO 3C X 150 SQMM	49454165
250	TATA STEEL	LOI.NO.E&P/ENV//LOI/07/2014 Dt: 16.01.14	6.6 kV(UE)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 240 SQMM & 3C X 300 SQMM	13729600
251	EIL(BPCL)	PO.NO.4504433973 Dt: 23.01.14	6.6 kV(UE)/AL & CU/XLPE/CU-TAPE/ST-2/ARMD/FRLS PVC ST-2 SHEATHED HT POWER CABLE 1C X 63 SQMM	157624450
252	GUJRAT STATE FERTILIZERS&CHEMICALS LTD.	PO.NO.411007916/689 Dt: 18.02.14	11 kV/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 1C X 500 SQMM TO 3C X 300 SQMM	10368235
253	CESC LTD.	PO.NO.NIL Dt: 23.02.14	33 kV(E)/AL/XLPE/CU-TAPE/ST-7/ARMD/HDPE ST-7 SHEATHED HT POWER CABLE 1C X 400 SQMM & 1C X 1000 SQMM	12371600
254	ADANI KANDLA BULK TERMINAL	PO.NO.4500150964 Dt: 24.02.14	6.6 kV(E)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 185 SQMM & 3C X 300 SQMM 1C X 400 SQMM TO 3C X 300 SQMM	35562000 119725711
255	TECHNIP INDIA LTD	PO:24500000PO1621-01-00-077 DT-14.03.14	11 kV(E) & (UE)CU/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 1C X 400 SQMM TO 3C X 150 SQMM	35476909
256	JHA POWER CORPORATION	PO.NO.JPC/KEI/2013-14/345 REVISED Dt: 25.03.14	11 kV(E)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 35 SQMM TO 3C X 300 SQMM	2473700

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

Sr. No.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
257	TRADE LINKERS ASSOCIATES	PO.NO.TLA-929-14 Dt: 25.03.14	11 kV(UE)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 1C X 95 SQMM	2145150
258	LONGKING ENGG.INDIA PVT.LTD.	LOI.NO.MAIL Dt: 28.03.14	6.6 kV(UE)/CU/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 185 SQMM & 3C X 300 SQMM 3C X 120 SQMM TO 3C X 300 SQMM	19900004 11036938
259	JSP PROJECT PVT.LTD.	PO.NO.JSP/KEI/RAPDRP-SCADA/FZB/30414 Dt: 30.04.14	11 kV(E) & 33KV(E) AL/XLPE/CU-TAPE/ST-2/ARMD/ST-2 SHEATHED HT POWER CABLE 3C X 120 SQMM TO 3C X 400 SQMM	261879200
260	CAPITAL ELECTRICAL PVT LTD.	PO.NO.CEPL/R-APDRP/KEI/14-15/138 Dt: 13.05.14	33 kV(E) & 11 kV(E)AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 50 SQMM TO 3C X 400 SQMM	187562095
261	CAPITAL ELECTRICAL PVT LTD.	PO.NO.CEPL/R-APDRP/KEI/14-15/138 Dt: 13.05.14	33 kV(E) & 11 kV(E)AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 50 SQMM TO 3C X 400 SQMM 1C X 400 SQMM TO 3C X 300 SQMM	52197500 13433870
262	BSES RAJDHANI	PO.NO.BRPL/2014-15/11 kV 3CX300SQMM CABLE/01 Dt: 16.07.14	11 kV(E)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	61519153
263	BSES YAMUNA POWER LTD.	PO.NO.NB/D01/23075186 Dt: 18.07.14	11 kV/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	22043800
264	SOUTH EASTERN COALFIELDS LTD.	PO.NO.SECL/MMW//SEC. III/POWER CABLE 11 kV/49 Dt: 19.07.14	11 kV(E)/CU/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C x 50 SQMM to 3C X 150 SQMM	11847000
265	WBSEDCL	LOA.NO.CE(DIST-PROJECT)/NEF/PHASE-2/NABADWIP/PK-NEF-2/SUPPLY/39/5238 Dt: 31.07.14	11 kV (E) AL/XLPE/CU TAPE/ST-2/S-ARMD/ST-2 SHEATHED HT POWER CABLE 3C X 95 SQMM & 3C X 185 SQMM	

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
266	ULTRATECH CEMENT	LOI-CPC/MUM/CMC/AC-III/LOI-37/2014-15 Dt: 12.08.14	11 kV(UE) & 3.3 kV(UE)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM & 3C X 400 SQMM	16253950
267	BMM ISPAT LTD.	PO.NO.136-002 Dt: 25.08.14	11 kV & 3.3 kV(E)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 1C X 400 SQM TO 3C X 300 SQMM	59159288
268	SOUTHERN POWER DISTRIBUTION CO.	LR.NO.CGM/P&MM/E-23/CECT-685/13/LOI/D.NO.2091/14 Dt: 28.08.14	19/33 kV/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 400 SQMM	254677500
269	RELIANCE INFRASTRUCTURE LTD.	PO.NO.NB/M03/23076117 Dt: 08.09.14	11 kV & 33 kV(E)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 1C X 400 SQMM TO 3C X 400 SQMM	9860630
270	MAHESHWARI DISTRIBUTORS	PO.NO.MD/14-15/1710/1700-B Dt:18.10.14	6.6 kV(UE)KV/CU/XLPE/ST-2/ARMD/FRLS PVC ST-2 SHEATHED HT POWER CABLE 3C X 185 SQMM	13296400
271	THE SINGARENI COLLIERIES COMPANY	PO.NO.7600005619 Dt:15.10.14	3.3 kV/CU/PVC TYPE-A/ST-1/ARMD/PVC ST-1 SHEATHED HT POWER CABLE 3C X 95 SQMM TO 3C X 150 SQMM	28427350
272	BEST UNDERTAKING	PO.NO.B/1995/171 Dt:05.11.14	33 kV(E)/CU/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	27298868
273	RELIANCE INFRASTRUCTURE LIMITED	PO:NBC/M03/23077328 DT-06.11.14	11 kV(E)& 33 kV(E) AL/XLPE/CU TAPE/ST-2/S-ARMD/ST-2 SHEATHED HT CABLE 3C X 150 SQMM TO 3C X 400 SQMM	168141870
274	ALSTOM T&D INDIA LTD.	MOM.NO.NIL Dt:03.11.14	6.35/11 kV(E) AL/XLPE/CU-TAPE/ST-2/AL-W-ARMD/S-ARMD/FRLS ST-2 SHEATHED HT POWER CABLE 1CX 1000 SQMM TO 3C X 300 SQMM	11265560
275	VARUN ENTERPRISES	PO:VE/PO/KEI/14-15/114 DT-13.11.14	11 kV(E) AL/XLPE/CU TAPE/ST-2/S-ARMD/ST-2 SHEATHED HT CABLE 3C X 400 SQMM	12540000

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
276	RITESH KUMAR GOYAL	PO.NO.RKG/12/14-15 Dt:19.11.14	11 kV(E) AL/XLPE/CU-TAPE/ST-2/W-ARMD/ST-2 SHEATHED HT POWER CABLE 3C X 70 SQMM TO 3C X 150 SQMM	2427850
277	BAJAJ ELECTRICAL LTD.	PO.NO.MAIL Dt:28.10.14	33 kV& 11 kV(E) AL/XLPE/CU-TAPE/ST-2/S-ARMD/FR ST-2 SHEATHED HT POWER CABLE 3C X 95 SQMM TO 3C X 300 SQMM	1957488
278	NCC LTD.	PO.NO.NCC/KSEB-RAPDRP/KOCHI/23745/PUR/14-15 Dt:21.11.14	11 kV(E)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	138650000
279	BEST UNDERTAKING	PO.NO.B/2089/171 Dt:19.11.14	11 kV/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 3C X 240 SQMM	69595378
280	RAMESH ELECTRICAL	PO.NO.20145425 Dt:26.11.14	6.6 kV & 11 kV/AL/XLPE/CU-TAPE/ST-2/ARMD/FRLS PVC ST-2 SHEATHED HT POWER CABLE 3C X 50 SQMM TO 3C X 400 SQMM	10149600
281	NASSCON INFRA PVT LTD.	PO.NO.PO/06NOV2014/KEI 1/2 Dt:06.11.14	11 kV(E)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 95 SQMM & 3C X 400 SQMM	12581259
282	KEI-EPC	LOI.NO.1553/MEDCO-953/R-APDRP-B/2014 Dt: 30.09.14	33 kV & 11 kV(E) AL/XLPE/CU-TAPE/ST-2/ARMD/ST-2 SHEATHED HT POWER CABLE 3C X 35 SQMM TO 3C X 300 SQMM	
283	JAKSON ENGG.	PO.NO.ZNB-2390140012 Dt: 11.11.14	11 kV(E) & (UE)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 1C X 630 SQMM & 3C X 240 SQMM	13879000
284	CESC LTD.	PO.NO.CST/113628/14 Dt: 29.11.14	11 kV(E) AL/XLPE/CU TAPE/ST-2/W-ARMD/HDPE(ST-7) SHEATHED POWER CABLE 3C X 300 SQMM	14500000
285	CESC LTD.	PO.NO.CST/113619/14 Dt: 29.11.14	33 kV AL/XLPE/AL-W-ARMD/WS TP/HDPE ST-7 SHEATHED HT POWER CABLE 1C X 1000 SQMM	8121840

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
286	JBF PETROCHEMICALS LTD.	PO.NO.JBFPL/MNG/OS/DG/14-15/E/15300 Dt: 11.12.14	33 kV & 6.6 kV(UE) AL/XLPE/CU-TAPE/ST-2/AL-W-ARMD/W-ARMD/FRLS ST-2 SHEATHED HT POWER CABLE 1C X 500 SQMM TO 3C X 400 SQMM	28132485
287	LULU CONVENTION&EXHIBITION CENTER P LTD.	PO.NO.LULU/BOLGATTY/POWER/CABLE SUPPLY-01/2014 Dt:10.12.14	33 kV (E) AL/XLPE/CU TAPE/ST-2/ARMD/ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	16902700
288	L&T LTD.	PO.NO.4032002643 Dt: 16.12.14	6.35/11 kV AL/XLPE/CU-TAPE/ST-2/S-ARMD/ST-2 SHEATHED HT POWER CABLE 3C X 150 SQMM & 3C X 300 SQMM	10752400
289	KERALA STATE ELECTRICITY BOARD.	PO.NO.CE/TRN/E2/3X300 XLPE CABLE/14-15/2251 Dt: 10.12.14	33 kV CU/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	101089007
290	VA TECH WABAG LTD.	PO.NO.MBG-PO-13769/10P5M Dt: 23.12.14	3.3 kV & 11 kV(UE)/AL/XLPE/ST-2/ARMD/FRLS PVC ST-2 SHEATHED HT POWER CABLE 1C X 300 SQMM & 3C X 240 SQMM	10586400
291	TATA STEEL LTD.	LOI.NO.OP/GP/ELEC/ LOI/2014/175 Dt: 29.12.14	33 kV & 6.6 kV/CU/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 1C X 630 SQMM & 3C X 400 SQMM	15403800
292	DVNL	LOI.NO.151/S.E.(MM)/DVNL-MM/1347-2014/KEI Dt: 08.01.15	33 kV/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	9324573
293	SETIA ELECTRICAL	PO.NO.2982 Dt: 16.01.15	11 kV/(E)/AL/XLPE/CU-TAPE/ST-2/ARMD/FRLS PVC ST-2 SHEATHED HT POWER CABLE 3C X 240 SQMM & 3C X 300 SQMM	11609180
294	BHEL-ISG LTD	PO:77/14/0215/BSS DT-13.12.14	11 kV(E) AL/XLPE/CU TAPE/ST-2/S-ARMD/FRLS ST-2 SHEATHED HT POWER CABLE 3C X 185 SQMM	29544000
295	WEST BENGAL STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED	PO:MOM NO.P&C/P-24/P2014-15/C-III/KEI/52 DT-22.01.15	33 kV(E) AL/XLPE/CU TAPE/ST-2/S-ARMD/ST-2 SHEATHED HT POWER CABLE 3C X 400 SQMM	133571671

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
296	LANCO HILLS TECHNOLOGY PARK PVT. LTD	LOI:LHTPPL/LOI/PROJ/CABLE/14-15/001 DT-17.01.15	11 kV(E) AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C x 185 SQMM	8490890
297	RAHUL CABLE	PO.NO.RCPL/PO/10662/15 Dt:19.01.15	19/33 kV(E)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	823845
298	KERALA STATE ELECTRICITY BOARD LTD.	PO.NO.SCM.102/2014-15 Dt:03.02.15	6.35/11 kV(E)AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 1C X 500 SQMM	16399337
299	BEE PEE ELECTRICAL	PO.NO.BP/DVNL/102/14-15 Dt:13.02.15	11 kV(E) & 33 kV(E)AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 120, 3C X 185 & 3C X 300 SQMM	25557497
300	BEE PEE ELECTRICAL	PO.NO.BP/DVNL/102/14-15 PART-2 LOT-2 Dt:13.02.15	11 kV(E) & 33 kV(E)AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM & 3C X 185 SQMM	11525396
301	JAKSON LTD.	PO.NO.1116150002 Dt:27.01.15	11 kV(E) & 33 kV(UE) AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 240 SQMM & 3C X 300 SQMM	9393872
302	B FOURESS(P)LTD.	PO.NO.395/BE/41607 Dt:24.01.15	11 kV(E)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 1C X 500 SQMM	1278000
303	INDURE PVT LTD.	PO.NO.MAIL. Dt:16.02.15	11 kV (UE) & 3.3 kV(UE) AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 185 SQMM	14599996
304	JVVNL - JAIPUR	PO.NO.JPD/SE(PROC)/SPO-1/TN-4454/D947 Dt:13.02.15	11 kV (UE)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 185 SQMM	12466900
305	ENERGO ENGINEERING	PO.NO.EEPL/PO1361042 Dt:16.02.15	11 kV/3.3KV/AL/XLPE/CU-TAPE/ST-2/ARMD/FRLS PVC ST-2 SHEATHED HT POWER CABLE 3C X 120 SQMM & 3C X 185 SQMM	10178190

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
306	STERLING & WILSON LTD.	PTPL SR.NO.30916 Dt:25.02.15	11 kV(UE)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	12155500
307	ETHOS PRIVATE LTD.	PO.NO.ETHOS/KEI/PO-19 Dt:09.02.15	11 kV(UE)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 1C X 630 SQMM TO 3C X 300 SQMM	8146432
308	GWALEC ELECTRICAL PVT LTD.	PO.NO.68 Dt:08.05.15	11 kV(E) & 33 kV9E)AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 120 SQMM TO 3C X 300 SQMM	14195346
309	SIEMENS LTD.	PO.NO.4505926855 Dt:08.05.15	11 kV(UE)/AL/XLPE/CU-TAPE/ST-2/ARMD/UN-ARMD/FRLS PVC ST-2 SHEATHED HT POWER CABLE 1C X 150 SQMM TO 1C X 400 SQMM	52711902
310	ADEPT POWER PRIVATE LTD.	PO.NO.ADEPT/P.O/242/14-15 Dt: 11.03.15	11 kV(E) & 33 kV/AL/XLPE/CU-TAPE/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 240 SQMM & 3C X 400 SQMM	8986408
311	KANTI PRASAD MITTAL	PO.NO.PO/NOIDA/HT CABLE/KEI/14-15/47 Dt:16.03.15	33 kV(UE)/AL/XLPE/CU-TAPE/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 400 SQMM	15402400
312	CESC LTD.	PO.NO.CST/115792 Dt: 24.03.15	11 kV(UE)/AL/XLPE/CU-TAPE/ARMD/HDPE ST-7 SHEATHED HT POWER CABLE 3C X 300 SQMM	60400000
313	CESC LTD.	PO.NO./CST/115798 Dt: 25.03.15	33 kV(UE)/AL/XLPE/CU-TAPE/ARMD/HDPE ST-7 SHEATHED HT POWER CABLE 1C X 1000 SQMM	39305000
314	ULTRATECH CEMENT LTD.	PO.NO.MAIL Dt: 20.03.15	6.6 kV (UE) AL/XLPE/CU TAPE/ST-2/S-ARMD/ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	5182807
315	ALSTOM T&D INDIA LTD.	PO.NO.MOM Dt: 30.03.15	33/33 kV(UE)/CU/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE	

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
			1C X 500 SQMM	8074800
316	NEW ERA BUILDERS	PO.NO.NIL Dt: 15.04.15	33 kV(UE)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 400 SQMM	13781390
317	KANPUR ELECTRIC SUPPLY CO.	PO.NO.GMJ-304/AF-14 Dt: 25.04.15	11 kV/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300	16269212
318	SHAFT SINKERS MAURITIUS LTD.	PO.NO.3253SSM-HZL IN Dt: 22.04.15	6.6 kV(UE)/CU/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 185 SQMM	10267980
319	STEEL AUTHORITY OF INDIA	PO.NO.DSP/PUR/PC/MVP/1790/PO Dt: 24.04.15	33 kV(UE)AL/XLPE/CU-TAPE/PVC ST-2 SHEATHED HT AB CABLE 3C X 300 SQMM	17974550
320	MICRON ELECTRICAL	PO.NO.MEK:034:2015 Dt:20.04.15	6.35/11 kV(UE) & i(UE)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	8597450
321	NTPC LTD.	NOA.NO.NTPC/ERIIHO/C&M/DARLIPALLI/HT/40027888 Dt: 25.03.15	19/33 kV/11kV/3.3KVAl/XLPE/CU-TAPE/ST-2/ARMD/UN-ARMD/FRLS PVC ST-2 SHEATHED HT POWER CABLE 1C X 150 SQMM TO 3C X 150 SQMM	111837000
322	KANPUR ELECTRIC SUPPLY	PO.NO.GMJ-304/AF-16 Dt: 29.04.15	33 kV/AL/XLPE/CU-TAPE/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 300 SQMM	36677889
323	JSP PROJECT PVT LTD.	PO.NO.JSP/KEI/RAPDRP/CABLE/GHAZIABAD/02515 Dt: 02.05.15	11 kV(UE)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 120 SQMM & 3C X185 SQMM	10950989
324	EIL	PO.NO.OIL/C&P/A415-000-XT-MR-0200/015/025 Dt:06.05.15	11 kV(UE) & 6.6 kV(UE)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE 3C X 70 SQMM TO 3C X300 SQMM	10313025
325	BSES RAJDHANI POWER LTD.	LOI.NO.BR/2014-15/11KV3X300-NIT 369/01 Dt:	11 kV(UE)/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE	

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
			3C X300 SQMM	53540000
326	RELIANCE INFRASTRUCTURE LIMITED	PO:NBC/M03/23080207 DT-21.05.15	11 kV(E) & 33 kV/ AL/XLPE/ STRIPPABLE/CU-TAPE/ ST-2/AL-W-ARMD/S-ARMD/ST-2 SHEATHED HT POWER CABLE	
			1C X 1000 SQMM TO 3C X 400 SQMM	209248473
327	ST ELECTRICAL PVT.LTD.	PO.NO.STEPL/PO/DMRC/01/ 15-16 Dt: 01.06.15	11 kV/AL/XLPE/CU TAPE/ ST-2/S-ARMD/ST-2 SHEATHED HT CABLE	
			3C X 300 SQMM	27664320
328	WBSIEDCL	PO No. P&C/P-39/2014-15/ PC-III/KEI/DHQ/5200000202/13 Dt: 26.05.15	11 kV/AL/XLPE/CU-TAPE/ ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE	
			3C X 95 SQMM TO 3C X 400 SQMM	200857056
329	MAYA SHEEL CONSTRUCTION	PO.NO.MSC/KEIL/S-14/20615 Dt: 20.06.15	11 kV & 33 kV/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE	
			3C X 240 SQMM & 3C X 400 SQMM	19707055
330	BALAJI ELECTRICAL & HARDWARE	PO.NO.NIL Dt: 27.06.15	33 kV & 11 kV/AL/XLPE/CU-TAPE/ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE	
			3C X 240 SQMM & 3C X 400 SQMM	47908000
331	MADHYA GUJARAT VIJ COMPANY	LOA.NO.MGVCL/MM/2065/11 KV XLPE/3C240/KEI/1834 Dt: 30.06.15	11 kV(E)/AL/XLPE/ ST-2/ARMD/PVC ST-2 SHEATHED HT POWER CABLE	
			3C X 240 SQMM	47282088
332	Department Of Automic energy	DPS/MRPU/IGCAR/ELE/ 8266/PO/118809 Dated 21.08.2017	Supply of 33KV UE 3core x 400 sqmm XLPE insulated Aluminium conductor cable	
			33kv 3 core x 400 sqmm XLPE Al. Armoured A2XCEFY-11KM	25113000
333	Department Of Automic energy	DPS/MRPU/IGCAR/ELE/ 8125/PO/118989 Dated 20.09.2017	Supply of 11KV E 3core x 400 sqmm XLPE insulated Aluminium conductor cable	
			11kv 3 core x 400 sqmm XLPE Al. Armoured A2XCEFY-7KM	1518000

POWER / TRANSMISSION / COAL FIELD PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
1	KEI-EPC		MAIL DT 10.11.11	1100 V. LT AERIAL BUNCHED CABLE	
				3CX95+1CX16+1CX70 SQMM	134960000
2	J.S.P CONSTRUCTION	RAPDRP PROJECT	PO.NO.JSP/KEI/RAPDRPTABC/ GHAZIABAD/21613 Dt:21.06.13	1.1 kV AERIAL BUNCH CABLE	
				3X120+95+16	23262876
				3X95+70+16	1678674
				3X150+1X16+1X120	3790000
				3X150+120	4527110
3	WIN POWER INFRA PVT. LTD	R-APDRP	PO.NO.WPIPL/KEI/R-APDRP/ PO/13-14/1256 Dt:30.09.13	1.1 kV/AL/XLPE/PVC SHEATHED AB CABLE	
				3C95+1C70+1C16	14295576
				3C70+1C50+1C16	3462477
				3C50+1C35+1C16	2651177
4	WIN POWER INFRA PVT. LTD	R-APDRP	PO.NO.WPIPL/KEI/R-APDRP/ PO/13-14/1257 Dt:30.09.13	1.1 kV/AL/XLPE/PVC SHEATHED AB CABLE	
				3C95+1C70	20937700
5	WIN POWER INFRA PVT. LTD	R-APDRP	PO.NO.WPIPL/KEI/R-APDRP/ PO/13-14/1255 Dt:30.09.13	1.1 kV/AL/XLPE/PVC SHEATHED AB CABLE	
				3C35+1C35	7744398
6	(KEI-EPC) DAKSHINANCHAL VIDYUT VITRAN NIGAM LTD. (DVVNL)	MATHURA	LO.NO.38/S.E.(MM)DVVNL-MM/1153-2013(R-APDRP) Dt: 03.01.14	1.1 kV AL/XLPE INSULATED/AAC MESSANGER ABC CABLE	
				3C120+1C95+1C16	
				3C95+1C70+1C16	
				3C50+1C135+1C16	
7	KEI EPC (DVVNL)	CHITRAKOOT TWON	LOI.NO.7642/S.E.(MM)DVVNL-MM/1059-2013(-APDRP) Dt:24.12.13	1.1 kV/AL/PVC INSULATED LT AB CABLE	
				3C50+1C135+1C16	
				1.1 kV/AL/PVC INSULATED LT AB CABLE	
				3C95+1C70+1C16	
				3C120+1C95+1C16	
				3C95+1C70+1C16	
8	KEI-EPC-(DVVNL)	VRINDAWAN	LOI.NO.7641/S.E.(MM)DVVNL-MM/1058-2013(R-APDRP) Dt:24.12.13	1.1 kV/AL/PVC INSULATED LT AB CABLE	
				3C120+1C95+1C16	
				3C95+1C70+1C16	
9	JSP PROJECT PVT.LTD.	NIL	PO.NO.JSP/KEI/RAPDRP- SCADA/FZB/16714 Dt:16.07.14	1.1 kV/AL/XLPE/AL-ALLOY MASSE./PVC ST-2 SHEATHED LT AB CABLE	
				3C120+1C95+1C16	10541700
				3C95+1C70+1C16	8180090
				3C50+1C35+1C16	1646880
10	PADMAVATI INFRASTRUCTURE COMPANY	NIL	PO.NO.KEI/040 Dt:15.09.14	1.1 kV/AL/XLPE/ACC MASS./PVC ST-2 SHEATHED LT AB CABLE	
				3C95+70+16	11983500

POWER / TRANSMISSION / COAL FIELD PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
11	JSP PROJECT PVT LTD.	NIL	PO.NO.KEI/RAPDRP-GZB/13914 Dt:13.09.14	1.1 kV/AL/XLPE/ACC MASS./PVC ST-2 SHEATHED LT AB CABLE 3C120+1C95+1C16 3C95+1C70+1C16	12263600 11997000
12	KEI-EPC	BAREILLY TOWN	LOI.NO.1553/MEDCO-953/R-APDRP-B/2014 Dt:30.09.14	1.1 kV AL/XLPE/AL. ALLOY MESG. AERIAL BUNCHED CABLE (ABC) 3 C X 95 + 1 C X 70 + 1 C X 16	
13	BSES RAJDHANI LTD.	RAJDHANI	PO.NO.NB/D01/23077651 Dt:12.12.14	1.1 kV AL/XLPE/ST-2/S-ARMD/ST-2 SHEATHED LT POWER CABLE 4C X 300 SQMM	16606200
14	SUNIL HITECH ENGINEERS LTD.	MSPGCL PARLI	PO.NO.14P002833 Dt:23.12.14	1100V/CU/EPR/GLASS MIC. TAPE/HOFR SE-3/ARMD/HOFR SE-3 SHEATHED FS CABLE 2C X 10 SQMM TO 3C X 400 SQMM	11024828
15	HALDIA ENERGY	NIL	PO.NO.NIL Dt:23.12.14	1.1 kV AL/XLPE/ST-2/ARMD/FRLS ST-2 SHEATHED LT POWER CABLE 2C X 10 SQMM TO 3.5C X 400 SQMM	8120723
16	BEST UNDERTAKING	SELF	PO.NO.B/3094/171 Dt:31.03.15	1.1 kV/AL/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 2C X 50 SQMM TO 4C X 300 SQMM	135622450
17	VIJAI ELECTRICALS LTD.	PVVNL, UTTAR PRADESH	LOI.NO.VELP/MM/15-16/PVVNL/LOI/45 Dt:01.06.15	1.1 kV/AL/XLPE/ST-2/ARMD/UN-ARMD/PVC ST-2 SHEATHED LT POWER CABLE 1C X 6 SQMM TO 4C X 50 SQMM	181434847
18	AREVA T & D INDIA LTD	UPRVUNL - PARICHA	LOI/7602PN055/01 DT 19/01/2009	CU COND PVC INS ARMD (FRLS) 5CX4 SQMM UPTO 27CX2.5 SQMM	9296000
19	WEST BENGAL STATE ELEC TCL	WBSETCL	P&S/P-3/2008-09/WBSETCL/1175 DT 26/03/09	1.1 kV ARMD CU CONT CABLE 2.5CX16 SQMM UPTO 19CX2.5 SQMM	9660000
20	BHEL RANIPET	NTPC-SIMHADRI	4283551 DT 26/03/2009	LT PVC UN-ARMD CU COND 12CX1.5 SQMM UPTO 14CX1.5 SQMM	8774000
21	TECHNO ELECTRIC & ENGG . CO	BSTS PKG OF POWER GRID	05619/09-10/243 DT 06/06/09	1.1 kV CU PVC INS 2CX2.5 SQMM UPTO 27CX2.5 SQMM	8679000
22	BHEL LODHI ROAD	GSECL-UKAI	429P094 DT 23/06/09	LT PVC CU COND	11900000
23	BHEL NOIDA	SURAT LIGNITE POWER	PE/PG-11/SLP/P-244/09 DT 19/08/09	LT PVC CU COND/ FRLS 3CX2.5 SQMM UPTO 5CX4 SQMM	7500000
24	ABB LTD	4X300 MW JSW - RATNAGIRI	PS/e-BOP/JSW-Ratnagiri/AG/154 DT 26.09.09	LT CU PVC INS/ ARMD	9500000

POWER / TRANSMISSION / COAL FIELD PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
				3CX2.5 SQMM UPTO 19CX1.5 SQMM	
25	SHYAMA POWER INDIA LTD	BIHAR SUB STATION	PS09929-002/2845 AMD-2 DT 10.11.09	LT CU COND PVC INS 2CX2.5 SQMM UPTO 12CX2.5 SQMM	8471000
26	TECHNO ELECTRIC AND ENGG CO. LTD	2X40 MW CAPTIVE POWER PLANT AT KGP	NIL DT 30.09.09	CU COND PVC INS ARMD 1CX70 SQMM UPTO 3CX2.5 SQMM	3900000
27	BRAHMANI RIVER PELLETS LTD	JAIPUR	1241-0571 DT 07.10.09	LT CU ARMD XLPE INS 4CX1.5 SQMM UPTO 14CX1.5 SQMM	7900000
28	MCNALLY BHARAT ENGG CO.	HZL	SO 09901/PR 10001794 & 10001802/LO/GC DT 30.10.09	LT CU ARMD PVC INS/ FRLS	8313000
29	POWER PLANT ENGINEERS LTD	ANGUL, ORISSA	PPEL/ANG/6X135 MW/LTCBL/LOI/001 DT 21.11.09	LT CU ARMD PVC INS / ARMD 2CX2.5 SQMM UPTO 16CX2.5 SQMM	44200000
30	ABB LTD	2X135 MW SIMHAPURI ENERGY PVT LTD	3191234584 DT 07.12.09	5CX2.5 SQMM UPTO 27CX2.5 SQMM	9500000
31	TECHNO ELECTRIC & ENGINEERING CO.	HARDIAGNJ THERMAL POWE	06627/09-10/296 DT. 25.11.09.	LT CONTROL/CU/ 1CX2.5 TO19 CX2.5 SQMM	12500000
32	BHEL LODHI ROAD	OTPC PALLATANA	429 P 404 DT. 03.12.09.	LT CONTROL/PVC/CU/ 5CX2.5 TO 10CX2.5	15700000
33	TATA PROJECT LTD	BHUSAWAL TPS EXPANSION	TPH/BSC/TP-061/PO/074 DT 30.10.09.	LT CONTROL/ 2CX2.5 TO 12CX2.5 SQMM	3148000
34	BHEL YHD	PPCL BHAWANA	T 709A01504 DATED 29.12.09.	LT CONTROL/CU/PVC/ 3CX2.5 TO 24CX2.5	11800000
35	EMCO LTD	MEERUT	PDJ-NP/KEI/LOI-17 DT 11.01.2010	LT CONTROL/PVC/ARMD 5CX2.5 TO 27CX2.5	18500000
36	ABB LTD	2X135 MW KORBA CHHATISGARA	PS/EBOP/ARYAN400/PM/282 DT 11.03.10.	LT CONTROL/CU/PVC 3CX2.5 TO 27CX2.5	15000000
37	SIEMENS LTD	NTPC BARH		LT CONTROL/CUPVC/FR 2CX2.5TO27CX2.5	32300000
38	BHEL LTD	NTPC LTD -BONGAIGOAN TPP	FB-17000054318/06 DT. 28.01.10.	LT CONTROL/CU 23CX2.5 TO 19CX1.5 SQMM	8575000
39	SIEMENS LTD	SAIL - RSP	4502638827 DT 31.03.10.	LT CONTROL/CUPVC 2CX2.5TO24CX2.5	8404000
40	SIEMENS	JSPL DONGAMAHUA RAIGARG	4502627362 DT 13.04.10.	LT CONTROL/CU/PVC 3CX2.5 TO 20CX2.5	13000000
41	JINDAL STEEL & POWER LTD		4571001613 DATED 13.05.10.	CONTROL/CU/PVC/INS/ARMD 4CX1.5 TO37CX1.5	9747000

POWER / TRANSMISSION / COAL FIELD PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
42	LANCO INFRATECH LTD	2X600 MW ANPARA TPP	LITC/ANPARA/ELEC/CBC/ LOIA/050 DT. 10.08.10.	CONTROL/CU/PVC/UN-ARMED 2CX1.5 TO 10CX1.5	12400000
43	MACAWBER BEEKAY PVT. LTD.	NTPC - ANPARA	MB/C - 935/A/B021/PSN/ DS1108199 DT 26.08.10	CONTROL/CU/PVC/ARMED 3CX 1.5 TO 24CX1.5	8774000
44	AREVA T&D INDIA LTD	PGCIL - BINA		CONTROL/CU/PVC/ARMED 3CX 2.5 TO 24C X 2.5	11300000
45	ABB LTD	PGCIL AGRA	3191310066	CONTROL/CU/PVC/ARMED 3CX2.5 TO 27CX 2.5 SQMM	21000000
46	RELIANCE UTILITY ENERGYTECH & ENG.	2X300 MW-STAGE-II ROSA TPP	NB/ME1/23045229	CONTROL/CU/FRLS/FS 2CX 2.5 TO 27CX 2.5 SQMM	28800000
47	EMCO LTD	MSETCL-LONIKAND	PDJ-NP/KEI/LOI-28	CONTROL/CUPVC/FRLS/ARMED 2CX2.5 TO 19CX2.5 SQMM	21100000
48	TRF LTD	NTPC MAUDA	4600000503/ELECT/2401/BMHS	CONTROL/CU/PVC/FRLS/UN-ARMED 3CX2.5 SQMM	3104000
49	ABB LTD	NEMMELI	LOI (AS PER PRICE SCHEDULE)	CONTROL/ATC/CU/TYPE-A/ST-1 & ST-2/3CX1.5-37CX1.5	26200000
50	TECHNO ELECTRIC & ENGG CO. LTD	DVC KODARMA	05624/10-11/1466	CONTROL/CU/PVC/FRLS/ARMED 2CX2.5 TO 16CX2.5 SQMM	9985000
51	ABB LTD	GHORAH CEMENT	3191339826	CONTROL/CU/XPE/ARMED 3CX1.5 TO 37CX1.5 SQMM	9176000
52	ABB LTD	PGCB BANGALADESH	3191308924 (amend -1 dt 25.01.11)	CONTROL/CU/XLPE/ARMED 3CX2.5 TO 27CX2.5 SQMM	8289000
53	BHEL -TAMIL NADU	NTPC- BARH (BIHAR)	FB-170-7100068649/06	CONTROL/CU/PVC/FRLS/UN-ARMED 2CX 2.5 TO 16 CX 2.5	17200000
54	ABB LTD	RRVUNL CHHABRA TPP,	3191353386	CONTROL/CU/PVC/ARMED 2CX1.5 TO 14C X 1.5 SQMM	8399000
55	BHEL -NOIDA	2X600 MW JITPL	PW/PE/PG/JTL/P-1718/10	CONTROL/CU/XLPE/FRLS/ARMED 3CX 2.5 SQMM	17800000
56	FLSMIDTH PVT. LTD	NTPC- RIHAND	FLSM/B/21054	CONTROL/VU/PVC/INS/ARMED 3CX 2.5 TO 7CX 2.5 SQMM	13200000
57	ABB LTD	2X135 MW SEPL	3191370641	CONTROL/ATC/PVC-A/FRLS/ARMED 3CX2.5 TO 16CX2.5	8984000
58	POWERGEN INFRASTRUCTURE (L.L.C)	5X660 MW SUPER CRITICAL TPP	4500018368	CONTROL/CU/PVC/FRLS/ARMED 5CX1.5 TO 12CX1.5 SQMM	16800000
59	AREVA T&D INDIA LTD	UPPTCL ANAPARA	MAIL (PO.NO. 5429-4500486554 DT 30.05.11)	CONTROL/CU/XLPE/FRLS/ARMED 3CX2.5 TO 24CX 2.5 SQM	28100000
60	BHEL -NOIDA	2X600 MW TUTICORIN TPS	PW/PE/PG-II/TUI/P-165/11	CONTROL/CU/PVC-A/FRLS/ARMED 3CX1.5 TO 19CX1.5 SQ	12900000
61	TRF LTD	NTPC VINDHYACHAL-STAGE-III	PO:4500010706/90/BMHE DT-22.08.11	CONTROL/CU/PVC-A/FRLS/ARMED, 3CX1.5 TO 14CX 1.5	314000
62	LANCO INFRATECH LTD	400 kV SWITCH YARD	MAIL (PO.NO. 4100056265 DT 22.09.11)	CONTROL/CU/PVC/FRLS/ARMED 3CX2.5 TO 19CX2.5 SQMM	14900000
63	ICSA (INDIA) LTD	PGCIL-PALLATANA & KAMENG	LOI NO. ICSA/047/11-12 (PO.NO. ICSA/202/11-12 DT 23.11.11)	CONTROL/CU/PVC/INS/ARMED 5CX2.5 TO 27CX2.5 SQMM	60600000
64	ESSAR PROJECT (INDIA) LTD	2X600 MW SALAYA TPP, GUJARAT	CS01/E04/2700003375	CONTROL/1.1 kV/CU/XLPE/PVC/ARMED 2CX2.5 TO 6CX2.5	9016000

POWER / TRANSMISSION / COAL FIELD PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
65	NBPPL	1X100 MW NEEPCO, TRIPURA	NBPPL/CMP/ NEEPCO/E-3021/ PO:3008/11	CONTROL/1.1 kV/CU/PVC/FRLS/ ARMED 3CX 1.5 TO 19CX 1.5 SQMM	14300000
66	L&T LTD	375 MW DHUVARAN III CCPP	LOI.NO. L&T/DHU/PUR/ LTC/01	CONTROL/1.1 kV/CU/XLPE/ ARMED 3CX1.5 TO 12CX2.5 SQMM	11200000
67	BHEL -TBG (LODHI ROAD)	RPCL YERAMARUS TPS	PO.NO. 222P015	CONTROL/1.1 kV/CU/PVC/ARMED 2CX2.5 TO 19CX2.5 SQMM	41900000
68	DOOSAN POWER SYSTEMS INDIA PVT. LTD	GMR Raipur Chhattisgarh TPP	DI2012000050	CONTROL/1.1 kV/CU/PVC/FRLS/ ARMED 3CX2.5 TO 20CX2.5 SQMM	19000000
69	BHEL -PEM (NOIDA)	2X500MW SAGARDIGHI TPP, PH-II	PW/PE/PG/SGD/P-137/12	1.1 kV CU COND PVC-A INS ARMED/ FRLS CONTROL CABLE	
				5C X 2.5 SQMM TO 12C X 2.5 SQMM	11200000
70	BHEL	PRAYAGRAJ POWER PROJECT-UP STATE	LOI:4220386E DT-31.10.12	1.1 kV CU/TYPE-A/ST-1/ARMED/ FRLS ST-1 SHEATHED CONTROL CABLE	
				3C X 2.5 SQMM	14800000
71	BHEL -TAMIL NADU	NTPC-BARH, PATNA	PO.NO. 4222317	CU COND PVC-A UN-ARMED/ FRLS CONTROL CABLE	
				2C X 2.5 SQMM & 3C X 2.5 SQMM	17400000
72	LINDE ENGG. INDIA PVT. LTD	ISPRL, PADUR, KARNATAKA	PO.NO. 002 2EA2800 Sup. 000	1.1 kV CU COND PVC INS ARMED CONTROL CABLE	
				3C X 2.5 SQMM TO 14C X 2.5 SQMM	8951000
				3C X 1.5 SQMM TO 24C X 2.5 SQMM	14200000
73	BHEL -TBG (LODHI ROAD)	WBPDC SAGARDIGHI	PO.NO. 222P311	1.1 kV CU COND PVC INS ARMED CONTROL CABLE	
				2C X 2.5 SQMM TO 12C X 2.5 SQMM	25600000
				3C X 2.5 SQMM TO 10C X 2.5 SQMM	19900000
74	TRANSFORMERS & RECTIFIERS (I) LTD	765 kV, 500 MVA PGCIL	PO.NO. MRM103161	300/500/1.1 kV CU COND XLPE/ PVC INS UN-ARMED/ARMED CONTROL	
				7C X 2.5 SQMM TO 27C X 2.5 SQMM	12800000
75	L&T LTD	2X600 MW SINGHITARAI TPP, CHATTISGARH	PO.NO. E8450P03000003	1.1 kV CU COND PVC-A INS UN-ARMED/ FRLS CONTROL CABLE	
				3C X 1.5 SQMM TO 19C X 1.5 SQMM	31900000
76	PRAYAGRAJ POWER (JAYPEE)	PRAYAGRAJ THERMAL POWER (3X600 MW) U.P	PO.NO. PPGCL-LT CAB-PO-22	1.1 kV CU COND PVC-A INS UN-ARMED/ARMED/ FRLS CONTROL CABLE	
				2C X 1.5 SQMM TO 14C X 1.5 SQMM	14600000

POWER / TRANSMISSION / COAL FIELD PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
77	ABB LIMITED	NTPC NABINAGAR	LOI	CU COND.PVC TYPE A INSULATED PVC TYPE ST-1 FRLS/ARM CONTROL CABLE	
				3C X 1.5 SQMM TO 19C X 2.5 SQMM	19000000
78	NTPC NABINAGAR(NPGC)	NIL	PO.NO.NOA:CS-0370-214-2-SU-NOA-0019	1.1 kV CU COND. PVC INSULATED CONTROL CABLE	
				2C X 1.5 SQMM TO 3C X 2.5 SQMM	54300000
79	HONEYWELL AUTOMATION INDIA LTD	NTPC SINGRUALLI	P.O.NO.4403551938	CU CONTROL CABLE	
				5C X 1.5 SQMM TO 5C X 2.5 SQMM	7491000
80	HONEYWELL AUTOMATION INDIA LTD	NTPC RAMGUNDAM	LOI.NO.LOI-HAI/LOI/TP/ NTPC/80513-01	CU COND. CONTROL CABLE	
				3C X 1.5 SQMM TO 5C X 2.5 SQMM	8028000
81	L&T LTD.	2X600 MW DB POWER THERMAL POWER STATION, CHHATISGARH	PO.NO.HQ:SS:DB POWER:KSP:PKG:018	1.1 kV CU COND.XLPE INS FRLS/ ARMOUR CONTROL CABLE	
				3C X 1.5 SQMM TO 27C X 2.5 SQMM	19800000
82	SIEMENS LTD	NTPC BARH	PO: ON MAIL DT-01.11.13	1.1 kV CU/TYPE-A/ST-1/ARMD/ FRLS ST-1 SHEATHED CONTROL CABLE	
				5C X 2.5 SQMM TO 19C X 2.5 SQMM	15000000
83	DOOSAN POWER	NTPC KUDGI	LOI ON MAIL DT-23.12.13	1.1 kV/CU/TYPE-A/ST-1/ UNARMD/FRLS PVC ST-2 SHEATHED LT CONTROL CABLE	
				3C X 1.5 SQMM TO 4C X 2.5 SQMM	29800000
84	L&T LTD	NORTHERN COAL FIELD,CHP BLOCK B-SINGRAULI	PO.NO.EA208PO4000018 Dt:07.01.14	1.1 kV/CU/TYPE-A/ST-1/ ARMD/PVC ST-1 SHEATHED LT CONTROL CABLE	
				3C X 2.5 SQMM TO 24C X 2.5 SQMM	11300000
85	TECHNO ELECTRIC&ENGG.	NTPC KUDGI	LOI.NO.KUDGI/13-14 Dt:13.02.14	1.1 kV/CU/TYPE-A/ST-1/ ARMD/PVC ST-1 SHEATHED LT CONTROL CABLE	
				5C X 2.5 SQMM TO 19C X 2.5 SQMM	118550000
86	TECHNO ELECTRIC & ENGG.	AP TRANSCO	LOI:APTRANSCO/13-14 DT-05.02.14	1100V CU/TYPE-A/ST-1/ARMD/ FRLS ST-1 SHEATHED CONTROL CABLE	
				3C X 2.5 SQMM TO 27C X 2.5 SQMM	51442350
87	ALSTOM T&D INDIA LTD.	PGCIL VINDHYACHAL	MOM.NO.MAIL Dt:21.05.14	1.1 kV/CU/TYPE-A/ST-1/ARMD/ PVC ST-1 SHEATHED SCREEN CONTROL CABLE	

POWER / TRANSMISSION / COAL FIELD PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
				3C X 2.5 SQMM TO 27C X 2.5 SQMM	27118961
88	DOOSAN POWER	NTPC LARA	LOI.NO.MAIL Dt:07.03.14	1.1 kV/CU/TYPE-A/ST-1/ UNARMD/FRLS PVC ST-1 SHEATHED LT CONTROL CABLE	
				3C X 1.5 SQMM TO 4C X 2.5 SQMM	19699424
89	ALSTOM GRID	HVDC KURUKSHETRA	MOM FINAL OFFER Dt:04.06.14	1.1 kV/CU/TYPE-A/0-ALL SHIEL./ ST-1/ARMD/FRLS PVC ST-1 SHEATHED SHIELDED CABLE	
				2C X 1.5 SQMM TO 27C X 2.5 SQMM	10705298
90	BHEL RANIPET	NTPC NABINAGAR STTP 3X660MW -ESP PACKAGE	LOI.NO.4240149E Dt:18.07.14	1100V CU/TYPE-C/ST-2/ UNARMD/FRLS ST-2 SHEATHED LT CONTROL CABLE	
				3C X 1.5 SQMM & 14C X 1.5 SQMM	8999229
91	KALPATARU POWER	PGCIL(6 SITE	PO.NO.2000017681 Dt:25.07.14	1.1 kV/CU/TYPE-A/ST-1/ARMD/ FR PVC ST-1 SHEATHED LT CONTROL CABLE	
				3C X 2.5 SQMM TO 27C X 2.5 SQMM	32127550
92	BHEL RANIET	NTPC-SINGRAULI STAGE I -[5X200MW]	PO:4241950 DT-21.08.14 Dt:21.08.14	1100V/CU/TYPE-A/ST-1/ UNARMD/FRLS PVC ST-1 SHEATHED LT CONTROL CABLE	
				3C X 1.5, 10C X 1.5 & 12C X 1.5 SQMM	11131250
93	BHEL-NOIDA	2X600 MW SURATGARH STPS,STAGE IV	PO.NO.PW/PE/PG/ SG5/P-204/14 Dt:25.09.14	1.1 kV/CU/TYPE-A/ST-1/ ARMD/PVC ST-1 SHEATHED LT CONTROL CABLE	
				5C X 1.5 SQMM TO 12C X 2.5 SQMM	26748800
94	ALOSTOM T&D INDIA LTD.	HVDC-CHAMPA	MOM Dt:16.10.14	1.1 kV/CU/TYPE-A/ST-1/ ARMD/PVC ST-1 SHEATHED LT CONTROL CABLE	
				2C X 1.5 SQMM TO 27 C X 2.5 SQMM	23582600
95	ALSTOM T&D INDIA LTD.	PGCIL TR-01	MOM.NO.MAIL. Dt:20.11.14	1.1kV CU/TYPE-A/ST-1/ARMD/ FR PVC ST-1 SHEATHED LT CONTROL CABLE	
				3C X 2.5 SQMM TO 27C X 2.5 SQMM	36092697
96	BHEL -NOIDA (PEM)	2X500 MW SAGARDIHI TPP,PH-II	PO.NO.PW/PE/PG/ SGD/P-410/14 Dt:07.02.15	1.1 kV/CU/XLPE/ST-2/ARMD/ FRLS PVC ST-2 SHEATHED LT CONTROL CABLE	
97	ALSTOM T&D INDIA LTD.	WBSETCL DHARAMPUR	PO.NO.5427-4500763161 Dt:04.02.15	1.1 kV/CU/TYPE-A/ST-1/ARMD/ FR PVC ST-1 SHEATHED LT CONTROL CABLE	
				2C X 2.5 SQMM TO 19C X 2.5 SQMM	1886940
98	TECHNO ELECTRIC&ENGINEERING CO.	TANTRANSCO	LOI.NO.TANTRANSCO/14-15 Dt:10.02.15	1.1 kV/CU/TYPE-A/ST-1/ARMD/ FRLS PVC ST-1 SHEATHED LT CONTROL CABLE	

POWER / TRANSMISSION / COAL FIELD PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
				3C X 2.5 SQMM TO 27C X 2.5 SQMM	9984000
99	ALSTOM T&D INDIA LTD.	TANTRANSCO-RASIPALAYAM	MOM Dt:14.04.15	1.1 kV/CU/TYPE-C/ST-2/ ARMD/PVC ST-2 SHEATHED LT CONTROL CABLE	
				2C X 2.5 SQMM TO 28C X 2.5 SQMM	24060528
100	ABB INDIA LTD.	ABB - RAYALSEEMA (APGENCO)	LOI.NO.MAIL. Dt:29.05.15	1.1 kV/CU/XLPE/ST-2/ARMD/ FRLS PVC ST-2 SHEATHED LT CONTROL CABLE	
				3C X 2.5 SQMM TO 27C X 2.5 SQMM	8378290
101	LANCO INFRA TECH LTD	ANPARA 'C' THERMAL POWER	LITL/ANPARA/ELEC/INSTT- CABLE/LOA/	INSTRUMENTATION CABLE CU COND	
			025 DT 23.04.2009	2PX0.5 SQMM UPTO 24PX0.5	38800000
102	BHEL - EDN.	UKAI (1X490 MW)	4000026681 DATED 23.12.09.	2P X 0.5 SQMM TO 16PX0.5 SQMM	9192000
103	NBPPL	1X1000MW NBPP, ASSAM	NBPP ASSAM	1PX 1.5 SQMM TO 12PX SQMM	11800000
104	NBPPL	2X363.3 MW CAPP FOROTPC	NBPPL/CMP/PACT/LT-SCC/P-1055/10	2PX 0.5 SQMM TO 20 P X 0.5 SQMM	25000000
105	MACAWBER BEEKAY PVT LTD	NTPC ANPARA	MB/C - 935/A/BO-21/PSN/ DS1108199.	4PX0.5 SQMM TO 24PX0.5 SQMM	9025000
106	BHEL - NOIDA	4X600 MW OP JINDAL STPP	PW/PE/PG/JPL/P-860/10 DT 27.09.10.	4PX0.5 SQMM TO 20P X 1.5 SQMM	64500000
107	BHEL -NOIDA	2X525 MW MONNET TPS	PW/PE/PG/MON/P-998/10	4P X 0.5 SQMM TO 20P X0.5 SQMM	39200000
108	MACAWBER BEEKAY PVT LTD	NTPC MODHA	MB/C-981/A/BO-21/PSN/ DS1110195	2PX 0.5 TO 24 P X 0.5 SQMM	9039000
109	BHEL - BANGALORE	MORWA	4000030203	4P X 0.5 SQMM TO 12P X 0.5 SQMM	19000000
110	BAJAJ INFRAST. DEVELOPMENT COM. LTD		MAIL (LOI- BIDCO/LOA/ KKH/INST.	1PX0.75SQMM TO 24PX0.75SQMM	25400000
111	ADHUNIK POWER & NATURAL RES. LTD	APNRL	AK/APNRL/INST. & CONTROL CABLE/ LOI/2X270MW/001	INST/CU/PVC/XLPE/FRLS/ARMD 2PX0.5 TO 12PX0.5	43300000
112	FLSMIDTH PVT. LTD	NTPC- RIHAND	FLSM/B/21054 (AMEND BY MAIL DT 18.08.11)	INSTRU/CU/PVC/ARMD 2PX0.5 TO48PX0.5 SQMM	11000000
113	BINA POWER	2X250 MW TPP AT BINA	BPSCL-BTPP-INST. CABLES (AMND-1 DT 06.06.11)	INSTRU/CU/OVERALLSCR/ 2PX0.5 TO 16PX0.5 SQM	17900000
114	NTPC LTD	NABINAGAR STPP (4CX250 MW)	CS-0270-409-2-SU-NOA-BRBL-Nabinagar/11-12/3	INSTRU/CU/FRLS/225/600V 4PX0.5 TO 48PX0.5 SQM	22100000
115	ABB LTD	ESSAR -CHP	LOI	INSTRU/CU/PVC-C/SHIELD/ARD 1PX1.5 TO 20PX1.5	19200000
116	KANTI BIJLEE UTPADAN NIGAM LTD	MUZAFFARPUR TPS	CS-0350-409-2-FC-NOA/032	INSTRU/CU/ATC/EVA/INS/OVR/ SHIL 4PX0.5TO48PX0.5	17400000
117	BHEL - TAMIL NADU	JAYPEE NIGRIE	PO.NO. 4212670	INSTRU/CU/HR PVC/FRLS/ ARMD 4CX1.5 SQMM	11200000

POWER / TRANSMISSION / COAL FIELD PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
118	BHEL -PEM	2X600 MW RAIGARH POWER -CHHAT.	PW/PE/PG/366/P-870/11	INSTRU/CU/IND&OVR/SHIELD/ ARMD 2PX0.5TO20PX0.5	20700000
119	BHEL -PEM (NOIDA)	4X125 MW KOSTI SUDAN TPP	PW/PE/PG/KOS/P-915/11	INSTRU/CU/PVC/IND.OVR/ FRLARM 2PX0.5TO12PX0.5	31000000
120	MEJA URJA NIGAM PVT. LTD A/C NTPC LTD	MEJA TPP (2X660 MW)	MUNPL/C&M/ Contracts/12-13/NOA-0035	CU COND PVC INS IND.& OVR SHIELDED INSTRUMENTATION CABLE	
				4P X 0.5 SQMM TO 48P X 0.5 SQMM	26800000
121	BHEL -EDN	BARAUNI TPS (2X250 MW)	PO.NO. 4000039307 dt.05.02.13	ATC COND PVC INS IND.&OVR. SHIELDED ARMD/un-armd FRLS INS. CABLE	
				2p x 0.5 sqmm to 8p x 0.5 sqmm	9114000
122	BHEL EDN LTD	VIZAG TPP (BANGALORE)	PO:4000039573 DT-08.03.13	225V CU/Y13/O-SHIELD/FRLS YM1/ARMD/UN-ARMD/FRLS YM1 SHEATHED INST. CABLE	
				2P X 0.5 SQMM TO12P X 0.5 SQMM	24500000
123	HONEYWELL AUTOMATION INDIA LTD	NTPC RAMGUNDAM	LOI.NO.LOI-HAI/LOI/TP/ NTPC/80513-01 Dt: 08.05.13	CU/PVC TYPE Y13/I-O SHIELD/ UN-ARMD/FRLS YM1 SHEATHED SIGNAL CABLE	
				2P X 0.5 SQMM TO 24P X 0.5 SQMM	58500000
124	MACAWBER BEEKAY PVT LTD.	NIL	PO.NO.C-1212/BO-21/8303/MND/DIR/13/3563 Dt:19.11.13	CU/TYPE-C/O-ALL SHIEL./AL-TAPE/ATC/ST-2/ARMD/FRLS PVC ST-2 SHEATHED INST CABLE	
				2P X 0.5 SQMM TO 24P X 0.5 SQMM	27800000
125	DOOSAN POWER	NTPC KUDGI	LOI ON MAIL DT-23.12.13	1.1 kV/CU/TYPE-Y13/O-ALL SCREE./AL-TAPE/ATC/YM1/ UNARMD/FRLS PVC YM1 SHEATHED INST.CABLE	
				2P X 0.5 SQMM TO 24P X 0.5 SQMM	56800000
126	NTPC THALCHAR PROJECT	LOI.YIL/NTPC - TSTPS/R&M/ CABLES/ 2013-14 DT-06.12.13	06.12.13	225V CU/PVC TYPE YI-3/I-O SHIELD/UN-ARMD/FRLS YM-1 SHEATHED INST. CABLE	
				2P X 0.5 SQMM TO 24P X 0.5 SQMM	16100000
127	SIEMENS LTD.	BANDEL PROJECT	LOI.NO.EFIE/3003390302/ KMB/K-082 Dt:21.01.14	1.1 kV/CU/TYPE-A/IND.O-ALL SCREE./AL-TAPE/ATC/ST-1/ ARMD/PVC ST-1 SHEATHED TYPE-F INST CABLE	
				2P X 0.5 SQMM TO 20P X 0.5 SQMM	12100000
128	BHEL LTD.	NTPC NABINAGAR TPP UNIT-1	PO.NO.FB-170-7200001360/06 Dt:27.01.14	1.1 kV/CU/TYPE-A/O-ALL SHIEL./ AL-TAPE/ATC/ST-1/ARMD/PVC ST-1 SHEATHED INST CABLE	
				2P X 0.5 SQMM TO 16P X 0.5 SQMM	35000000

POWER / TRANSMISSION / COAL FIELD PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
129	BHEL EDN.	BHEL-RPCL YERMARUS	PO.NO.4000041810 Dt:05.02.14	1.1 kV/CU/YM1/I-0-SHIELD/ YM1/ARMD/FRLS Y13 SHEATHED INST. TYPE-F CABLE 2P X 0.5 SQMM TO 12P X 0.5 SQMM	23900000
130	BHEL -HARIDWAR	NIL	PO.NO.B3V2614 Dt:27.02.14	1100V/CU/TYPE-C/I-0 SHIELD/ ST-2/ARMD/FRLS ST-2 SHEATHED INST. CABLE 2P X 0.5 SQMM TO 12P X 0.5 SQMM	10400000
131	BHEL LTD.	3X150 MW HALDIA TPP	PO.NO.PW/PE/PG/HLD/P-30/14 Dt:28.04.14	1.1 kV/CU/TYPE-C/ -I-0 & 0-ALL SHIEL./AL-TAPE/ATC/ST-2/ ARMD/PVC ST-2 SHEATHED TYPE-G INST CABLE 2P X 0.5 SQMM TO 20P X 0.5 SQMM	43968380
132	DOOSAN POWER	NTPC LARA	LOI.NO.MAIL Dt:17.06.14	1.1 kV/CU/TYPE Y13/I-0-ALL SCREE./FRLS YM1 SHEATHED/ UN-ARMD/ INST CABLE 2P X 0.5 SQMM TO 24P X 0.5 SQMM	38543532
133	ALSTOM GRID	HVDC KURUKSHETRA	PO.NO.FIN/AN/FFB 12P X 1.5 Dt:04.06.14	1.1 kV/CU/TYPE-A/0-ALL SHIEL./ ST-1/ARMD/FRLS PVC ST-1 SHEATHED INST CABLE 2P X 0.5 SQMM TO 6P X 0.5 SQMM	908174
134	HONEYWELL AUTOMATION	NTPC RAMGUNDAM	PO.NO.4404960772 Dt:28.07.14	CU/PVC TYPE-Y13/SHIELDED/ UNARMD/FRLS PVC YM1 SHEATHED INST. CABLE 2P X 0.5 SQMM TO 24P X 0.5 SQMM	18068525
135	TPSC (INDIA) LTD.	NTPC-2X660 MW MEJA PROJECT ALLABHAD	PO.NO.HDP140291 Dt:31.07.14	225V/CU/TYPE-A/SHIELDED/ ST-1/UNARMD/FRLS PVC ST-1 SHEATHED INST CABLE 2T X 0.5 SQMM TO 8P X 0.5 SQMM	9086500
136	HONEYWELL AUTOMATION	NTPC RAMAGANDUM (UNIT-4)	PO.NO.4404960755 Dt:28.07.14	CU/PVC TYPE-Y13/SHIELDED/ UNARMD/FRLS PVC YM1 SHEATHED INST. CABLE 2P X 0.5 SQMM TO 24P X 0.5 SQMM	18068525
137	BHEL-EDN	NTPC-SINGERENI	PO.NO.4000043281 Dt:04.08.14	225V/CU/TYPE Y13/SHIELDED/ YM1/ARMD/UN-ARMD/FRLS PVC YM1 SHEATHED INST CABLE 2P X 0.5 SQMM TO 12P X 0.5 SQMM	23197414
138	CAIRN INDIA	AISHWARIYA WELLS	PO:LNTP/LA NO:- 9100000188 DT-22.10.14	300/500V CU/GLASS MICA TAPE/ XLPE/SHIELD/FRLS ST-2/ARMD/ FRLS ST-2 SHEA/ INST/ FS CABLE 1T X 1.5 SQMM TO 10T X 1.5 SQMM	11292130

POWER / TRANSMISSION / COAL FIELD PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
139	SIEMENS	NTPC KAHALGAON	PO:4505530407 DT-27.10.14	CU/TYP-A/SHIELDED/ST-1/ UNARMD/PVC ST-1 SHEATHED INST. G & F CABLE . 8P X 0.5 SQMM TO 48P X 0.5 SQMM	40930050
140	FERNAS CONSTRUCTION COMPANY INC.	GAS COMPRESSOR SYSTEM AT GANGA	PO.NO.NIL.	650/1100V/CU/TYPE-C/ SHIELDED/ARMD/FRLS PVC ST-2 SHEATHED INST.CABLE 1P X 1.5 SQMM TO 12P X 1.5 SQMM	9600904
141	TANTRANSCO (formerly TNEB)	T 1827 - 230kV UG Cable Turnkey Order	LOI No. 2646, Dt. 26-02-2015	Supply of 230kV, 1xC 1000 Sq.mm XLPE insulated, Aluminium conductor UG cable & laying of cables, erection of accessories viz., joints, termination, testing & commissioning for route length of 10.0 kM from proposed Thiruverkadu 230kV GIS S/S to Ambattur 230kV S/S under turn key basis.	410113575
142	TANTRANSCO (formerly TNEB)	T 1826 - 230kV UG Cable Turnkey Order	LOI No. 2641, Dt. 31-01-2015 & Add. Quantity Dt. 16.02.2017	Scheme 1: Supply of 230kV, 1xC 1200 Sq.mm XLPE insulated, Aluminium conductor UG cable & laying of cables, erection of accessories viz., joints, termination, testing & commissioning for route length of 1.365 kM from proposed Almathy Tower to 230kV GIS Koyambedu S/S under turnkey basis. Scheme 2: Supply of 230kV, 1xC 1000 Sq.mm XLPE insulated, Aluminium conductor UG cable & laying of cables, erection of accessories viz., joints, termination, testing & commissioning for route length of 8.5 kM from Guindy 400kv SS to RA Puram 230kv SS & Supply and Laying of 230kv , 1 X 1200 sq.mm XLPE Cable, for making LILO of 230kv Guindy - RA Puram UG Cable feeder at Proposed Mambalam 230kv GIS SS route length of 5.658 kM under total turnkey basis.	461278487
143	TANTRANSCO (formerly TNEB)	T 1983 - 110kV UG Cable Turnkey Order	LOI No. 2963, Dt. 28-02-2018	Scheme 1: Supply and Laying of 110kV, 1xC 630Sq.mm, XLPE SC UG cable (SC) from Airport 110KV Switchyard to Pallavaram 110KV SS for a route length of 3.0Km under total turnkey basis.	410113575

CEMENT PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
1	ULTRATECH CEMENT LTD.	JHAJJAR	PO.NO.MAIL Dt:20.03.15	1.1 kV/AL/XLPE/ST-2/ARMD/PVC ST-2 LT POWER CABLE 3C X 10 SQMM TO 3.5C X 400 SQMM	16897240
2	ULTRATECH CEMENT LTD.	DANKUNI	PO.NO.MAIL Dt:20.03.15	1.1 kV/AL/XLPE/ST-2/ARMD/PVC ST-2 LT POWER CABLE 3C X 10 SQMM TO 3.5C X 400 SQMM	15093862
3	SHREE CEMENT LTD.	UP GRANDING UNIT	PO.NO.SCL/UPGU/15-16/ PO-155 Dt:14.05.15	1.1 kV/AL/XLPE/ST-2/ARMD/ PVC ST-2 SHEATHED LT POWER CABLE 3C X 16 SQMM TO 3.5C X 300 SQMM	14506565
4	ISGEC HEAVY	TOKYO CEMENT ,SRILANKA	PO.NO.P30101369/ES0105 Dt:30.07.15	0.6/1 kV/CU/XLPE/ST-2/ARMD/ PVC ST-2 SHEATHED LT POWER CABLE 1C X 25 SQMM TO 3.5C X 400 SQMM	10966009
5	ISGEC HEAVY ENGG.	EMAMI CEMENT	PO.NO.MAIL Dt:13.08.15	1.1 kV/CU/AL/XLPE/ST-2/ARMD/ PVC ST-2 SHEATHED LT POWER CABLE 3C X 4 SQMM TO 3.5C X 300 SQMM	8791065
6	JAIPRAKASH ASSOCIATES	BALAJI CEMENT	JAL/BALAJI/CONTROL CABLE/KEI/10 DT 19.06.10.	CONTROL/CU/PVC-A/ARMD 3CX1.5 TO 37CX1.5	104500000
7	ABB LTD	SHREE CEMENT LT	MAIL (PO.NO. 3191364843 DT 15.04.11)	CONTROL/ATC/XLPE/PVC-A/ FRLS/ARMD 2CX2.5TO16CX2.5	25600000
8	MCNALLY BHARAT ENGINEERING CO.	ACC CEMENT JAMUL	LOI.NO.NIL Dt:17.02.14	1.1 kV/CU/TYPE-A/ST-1/ ARMD/PVC ST-1 SHEATHED LT CONTROL CABLE 2C X 1.5 SQMM TO 37C X 1.5 SQMM	17925550
9	ULTRATECH CEMENT LTD		PO.NO. CPC/MUM/SNS/ RAWAN-II/PO-127/12-13 (AMEND.01 DT 23.08.12)	1.1 kV CU COND PVC INS OVR. SCR ARMD INSTR. CABLE 1P X 1 SQMM TO 10 PX 1 SQMM	17300000
10	ULTRATECH CEMENT LTD		PO.NO. CPC/MUM/SNS/ RAWAN-TPP/PO-130/12-13 DT 23.04.12	1.1 kV CU COND PVC INS OVR. SCR ARMD INSTR. CABLE 3C X 1 SQMM TO 37C X 1 SQMM	12500000
11	ULTRATECH CEMENT LTD		PO.NO. CPC/MUM/SNS/ RC-IV/PO-137/12-13 DT- 23.04.12 (AMEND.01 DT 23.08.12)	1.1 kV CU COND PVC INS OVR. SCR ARMD INSTR. CABLE 1P X 1 SQMM TO 10T X1 SQMM	23600000
12	MCNALLY BHARAT ENGINEERING CO.	ACC CEMENT JAMUL	LOI.NO.NIL Dt:17.02.14	1.1 kV/CU/TYPE-A/0-ALL SHIEL./ AL-TAPE/ATC/ST-1/ARMD/PVC ST-1 SHEATHED INST CABLE 1P X 1 SQMM TO 12P X 1 SQMM	12900000
13	ULTRATECH CEMENT	ADITYA CEMENT WORK- CHITTORGARH	PO.NO.AC/ CMC//9019700094 Dt:05.09.14	1.1 kV/CU/TYPE-A/SHIELDED/ ST-1/ARMD/PVC ST-1 SHEATHED INST CABLE	

CEMENT PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
				1P X 1 SQMM TO 12P X 1 SQMM	13186500
14	MCNALLY BHARAT ENGG.	ACC CEMENT JAMUL	PO.NO.10046061 Dt:12.12.14	1.1 kV CU/TYPE-C/SHIELD/ST-1/ ARMD/FRLS ST-1 SHEATHED INST. CABLE 1P X 1.5 SQMM TO 10T X 1.5 SQMM	8966000

FERTILISERS/REFINERIES/PETROCHEMICALS/PAPER PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
1	L&T LTD.	IOCL DEVANGONTHI	PO.NO.MAIL Dt:15.05.15	1100V/CU/AL/XLPE/ST-2/ARMD/ FRLS PVC ST-2 SHEATHED LT POWER CABLE 3C X 4 SQMM TO 4C X 10 SQMM	4239000
2	BPCL(EIL)	KOCHI REFINERY	FOA.NO.10/PJ/ A307/0240/102/1518 Dt:29.06.15	1.1 kV/AL/TYPE-A/ST-1/ARMD/ FRLS PVC ST-1 SHEATHED LT CONTROL CABLE 3C X 300 SQMM TO 3.5C X 400 SQMM	91803200
3	HPCL-MITTAL ENERGY LTD	BATHINDA & MUNDRA PIPELINE	HMEL/BR/PUR-139 DT 06/02/2009	1.1 kV CU COND PVC INS & EPR INS 3CX2.5 SQMM UPTO 24CX2.5 SQMM	11900000
4	BPCL	KOCHI REFINERY	10/TVR/6767/CEMP-II/MR-250/154/FOA-0702 DT 27/02/2009	1.1 kV CU COND PVC INS ARMD 5CX2.5 SQMM UPTO 30CX2.5 SQMM	10200000
5	BHARAT OMAN REFINERY LTD	BINA REFINERY	BRP/EI/226/6743/111/471 DT 07/03/2009	3CX2.5 SQMM UPTO 30CX2.5 SQMM	18300000
6	IOCL LODHI ROAD	PANIPAT REF. ADD. EXPANSION	6698/265 DT 08/06/09	1.1 kV CU PVC INS ARMD 2CX2.5 SQMM UPTO 30CX2.5 SQMM	975000 16000000
7	ESSAR PROJECTS (INDIA) LTD	REFINERY	PH01/E04/610019256 DATED 02.06.10.	CONTROL/CU/PVC/ARMD 12CX 2.5 TO 52CX2.5	15000000
8	CHENNAI PETROLEUM CORP. LTD.	EURO - IV AT MANLI	1035 P -225/5594A/P-4008/02 DT 08.06.10.	CONTROL/CU/PVC/INS/ ARMD10CX2.5 TO 30CX2.5	13100000
9	RUNGTA MINES LTD	CHALLYAMA	RML-CPP-228-C/792 DATED 15.06.10.	CONTROL/CU/XLPE/ ARMD/3CX2.5 TO 12C X 2.5	13000000
10	TATA STEEL LTD		2800009089/101 DATED 10.08.10.	CONTROL/CU/HRE/ 4CX 2.5 TO 19CX 2.5 SQMM	8342000
11	ABB LTD	ESSAR -CHP	LOI	CONTROL/CU/XLPE/FRLS/ARMD 2CX1.5 TO 24CX1.5 SQMM	27100000
12	L & T LTD	IOCL PARADEEP -RR PACKAGE	C04130/EPR00002	CONTROL/CU/XLPE/FRLS 3CX2.5 TO 19CX 2.5 SQMM	7944000
13	L&T LTD	ONGC-HAZIRA	PO:CHEMICAL PLANTS/75000-03354/DK DT-13.07.11 [AMEND 01 DT 06.09.11]	CONTROL/CU/XLPE/ST-2/FRLS/ ARMD, 2CX2.5 TO 24CX2.5	12800000
14	VA TECH WABAG LTD	IOCL PARADEEP -ETP	MBG-PO-7657/10P2M (P.O. AMEND DT 30.12.11)	CONTROL/CU/XLPE/INS/FRLS/ ARMD 2CX2.5 TO 7CX2.5 SQ	15300000
15	EIL -NEW DELHI	VIJAI PUR, MP OF GAIL (INDIA) LTD	GAIL/C&P/A095-000-XT-MR-0211/0062/164 (P.O. DT 29.12.11 & P.O.RCVD DT 02.01.12)	CONTROL/CU/PVC/INS/FR/ ARMD 7CX2.5 TO 30CX 2.5 SQMM	19100000
16	ESSAR PROJECT (INDIA) LTD	IOCL REFINERY AT PARADEEP	CS01/E04/2700003848	1.1 kV CU COND XLPE INS ARMD/ FRLS CONTROL CABLE 2C X 2.5 SQMM TO 4C X 2.5 SQMM	9757000

FERTILISERS/REFINERIES/PETROCHEMICALS/PAPER PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
17	FERNAS CONSTRUCTION INDIA PVT LTD	OPAL DAHEJ	LOI:FCIPL/PRC/EPC-01/ OPAL/LOI-283 (PO.NO. 43001066 DT 08.08.12)	1.1 kV CU/TYPE-A/ST-1/ARMD/ FR ST-1 SHEATHED CABLE 3C X 2.5 SQMM TO 24C X 2.5 SQMM 7C X 1.5 SQMM TO 19C X 1.5 SQMM	84900000 11000000
18	CHEMTROLS INDUSTRIES LTD	IOCL- PRADEEP(CL-TA)	PO.NO.TTX120007-047	CU COND. CONTROL CABLE 4C X 2.5 SQMM & 12C X 1.5 SQMM	10100000
19	HPCL.	SUPPLY OF CABLES-MLIF MSV	PO.NO.13000073-0Q-12001/ JBK	1100 Volt CU COND.XLPE INSULATION PVC CONTROL CABLE 5C X 2.5 SQMM TO 24C X 2.5 SQMM	10300000
20	CAIRN INDIA LTD.	NIL	CONTRACT NO.4500025809 Dt:04.12.14	1.1 kV CU/XLPE/O-SHIELD/ LSZH FRLS/ARMD/LSZH FRLS SHEATHED SCREENED CABLE & FS CABLES 2C X 1.5 SQMM TO 20C X 2.5 SQMM	14168200
21	ALSTOM T&D INDIA LTD.	HVDC-PGCIL	PO.NO.3271- HR02-4200450124 Dt:23.12.14	1.1 kV/CU/TYPE-A/BRAIDED/ FRLS PVC ST-1 SHEATHED LT CONTROL CABLE 4C X 1.5 SQMM TO 6C X 2.5 SQMM	12253669
22	L&T LTD.	IOCL DEVANGONTHI	PO.NO.MAIL Dt:15.05.15	1100V/CU/XLPE/PVC/TYA-A/ ST-2/ARMD/FRLS PVC ST-2 SHEATHED LT CONTROL CABLE 2C X 1.5 SQMM TO 48C X 2.5 SQMM	106992226
23	BHEL HYDERABAD	GGSR BHATINDA	T708A633 DT 16/01/2009	INSTRUMENTATION CABLE 1PX1.5 SQMM UPTO 12PX1.5 SQMM	31200000
24	PUNJ LLOYD LTD	IOCL VADODARA	PLL/PROC/PEIN08-DUU/ INST CABLE/229 DT 26/02/2009	INSTRUMENT CABLE 1PX1.5 SQMM UPTO 12PX1 SQMM	28600000
25	ANDHRA PETROCHEMICALS LTD	ANDHRA PETRO CHEMICALS LTD	PO/40/34560334 DT 21.03.2009	INST CABLE 1PX1 SQMM UPTO 12PX1.5 SQ	8755000
26	HPCL - MUMBAI	HPCL VAIZAG	9000216-OP-46002 DT 08/06/09	12PX1.5 SQMM	11700000
27	IOCL LODHI ROAD	PANIPAT REF. ADD. EXPANSION	6698/281 DT 30/06/09	1PX1.5 SQMM UPTO 12PX1.5 SQMM 1TX1.5 SQMM UPTO 8TX1.5 SQMM	22200000
28	IOCL	FCC GDS MSQ MATHURA	3314/196 DT 14/07/09	12PX1.5 SQMM	9022000

FERTILISERS/REFINERIES/PETROCHEMICALS/PAPER PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
29	PUNJ LLOYD LTD	OHCU AT IOCL HALDIA	PLL/PROC/OHCU/PEIN04/KEI/622 DT 09/10/09	1PX1.5 SQMM UPTO 1PX1.3 SQMM	871000
30	L&T LTD	IOCL PANIPAT	CCPP/45000-60136/IOCL/CMB DT 14/10/09	1PX1.5 SQMM 1TX1.5 SQMM	900000
31	BHEL TRICHY	GURU GOBIND SINGH REFINERY UNIT-I	FB-170-7100051645/06 DT 14.11.09	1PX1.5 SQMM UPTO 12PX1.5 SQMM	28600000
32	PUNJ LLOYD LTD	IOCL	PLL/PRDC/PEIN 08-DCU	1PX1.5SQMM TO 12P X 1.5 SQMM	18600000
33	L&T LTD	CAIRN ENERGY	HQ:E &1C: CARN;INST;SOR DT.02.12.09.	10P X 0.75 SQMM TO 20P X 0.75	8881000
34	HPCL- MITAL ENERGY LTD		7200000551 DATED 17.12.09.	6PX1.5SQMM & 12PX1.5 SQMM	93800000
35	BHEL HYD	GSEGL HAZIRA,GSPC PIPAVI	T709A01457 DT. 10.12.09.	1PX0.5SQMM &1PX1.5SQMM TO 24PX1.5SQ	7212000
36	BHEL HYD	GGSR BHATINDA	T709A01605 DATED 12.02.10.	6P X 0.5 SQMM TO 12PX0.5 SQMM	9674000
37	L&T LTD	HGU-MRPL PH-III	L03420/EPR00027/ DT 30.08.10.	6PX 1.5 SQMM TO 12P X 1. SQMM	8332000
38	BHEL (HYD)	BCPL LEPETKATA	PO:T710A00457 DT-28.10.10	1PX 1.5 TO 12P X 1.5 SQMM	35900000
39	BPCL -MUMBAI	CCR	P&CS:CCR:N20-66	INSTRU/CU/ 1TX1.5 TO 12PX1.5 SQMM	18600000
40	EIL -NEW DEHLI	BCPL	6907-70-YS-PO-1753/0130/0505	INSTRU/CU/PVC-C/SHIL/ARMD 12PX1.5 SQMM	44600000
41	TECNIMONT ICB PVT. LTD	NFL NANGAL	9294-KK-MR-352	INSTRU/ATC/XLPE/FRLS/ARMD 1TX1.3 TO 12PX1.5	25500000
42	IOCL	PDRP PROJECT AT PARADIP REFINERY	FOA:U6487/3129/2261 (PO. NO. U6487/2261/23404824 DT 29.06.11)	INSTRU/ATC/PE/FRLS/ARMD 1P;X1 TO 12PX1 SQMM	29800000
43	FABTECH PROJECTS & ENGINEERS LTD.	IOCL PARADIP REFINERY -ORISSA	FTL13210/KEI/2011-12/LOI-065	INSTRU/CU/TYPE-C/FRLS/ARMD 1PX1TO12TX2.5	582000
44	BHEL -TAMIL NADU	MRPL -KARNATAKA	FB-170-7100074026/06	INSTRU/CU/OVER.SHILED/ARMD 1PX1.5 TO 12PX1	62100000
45	BHEL -EDN	BHEL -EDN -MAHAN	4000033955	INSTRU/ATC/PVC/FRLS/IND.&OVR.SHI2PX0.5TO8PX0.5	25600000
46	BHEL -EDN	BHEL -EDN -ADHITYA	4000033957	INSTRU/PVC/IND.OVER.SH/FRLS/AR2PX0.5TO8PX0.5	25600000
47	BPCL - MUMBAI	CCR Project	P&CS:CCR:N20-152	INSTRU/CU/IND.&OVR/SCREEN 1PX1.5 TO 12PX1.5	8615000
48	IOT INFRASTRUCTURE & ENERGY SERV. LTD	IOCL PARADIP	IOTIES/PARADIP/BOOT/Inst Cable-128	INSTRU/CU/SILICON/INS/LSZH 1TX1 TO 12TX1 SQMM	29600000
49	TOYO ENGG. INDIA LTD (OCL-LODHI ROAD)	IOCL PARADIP REFINERY	FOA NO. 6270/PF/436	INSTRU/CU/PE/INS/OVR/SHI/ARM 1PX2.5 TO 12PX2.5	1618000
50	THERMAX LTD	HINDALCO SMELTER	LOI BY MAIL (PO.NO. 22064 AMEND.01 DT 13.01.12)	INSTRU/ATC/CU/HRPVC-C/ARMD 1PX1.5 TO 12PX1.5 2P X0.75 SQMM TO 20P X 0.75 SQMM	8321000 35100000

FERTILISERS/REFINERIES/PETROCHEMICALS/PAPER PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
51	TOYO ENGG. INDIA LTD	SBR PANIPAT, HARYANA	LOI.NO. PRC/6291Y/L/6360	300/500V ATC/TYPE-A/SHIELD/FRLS ST-1/ARMD/FRLS ST-1 SHEATHED INST. CABLE 1P X 1.5 SQMM TO 12T X 1.5 SQMM	44500000
52	BHEL -TRICHY	IOCL PARADEEP	FB-170-7100088243/ 06	CU COND HR PVC INS IND. & OVR. SHIEDED ARMD INSTR. CABLE 1P X 1.5 SQMM TO 12P X 1.5 SQMM	20200000
53	BHEL -TRICHY	IOCL PARADEEP	MM/4/7417/M&E 81/3331128	CU COND HR PVC INS IND. & OVR. SHIEDED ARMD INSTR. CABLE 1P X 1.5 SQMM TO 12P X 1.5 SQMM	24900000
54	FERNAS CONSTRUCTION INDIA PVT LTD	OPAL DAHEJ	LOI:FCIPL/PRC/EPC-01/OPAL/LOI-283 (PO.NO. 43001066 DT 08.08.12)	CU/TYPE-C/I-0 SHIELD/FR ST-2/ARMD/FR ST-2 SHEATHED INST. CABLE 1P X 1.5 SQMM TO 12P X 1.5 SQMM	25400000
55	BPCL LTD	-	FOA:P&CS:CCR:N20-300 DT-08.06.12	1.1 kV CU/PE/SHIELD/FR ST-2/ARMD/FR ST-2 SHEATHED INST. CABLE 1P X 1.5 SQMM TO 8T X 1.5 SQMM	8246000
56	ESSAR PROJECTS (INDIA) LTD	IOCL PARADEEP, ORISSA	PO.NO. CS01/102/2700004532	CU COND PE INS OVR. SCR ARMD INSTRUMENTATION CABLE 1P X 2.5 SQMM TO 12P X 2.5 SQMM	38600000
57	ESSAR PROJECTS (INDIA) LTD	IOCL PARADEEP REFINERY	PO.NO. CS01/102/2700004527	CU COND SILICON INS IND.& OVR SCR ARMD/ LSZH INSTR CABLE 1T X 2.5 SQMM TO 12T X 2.5 SQMM	23700000
58	BHEL -TRICHY	JPL SEONI-MP	PO.NO. FB-170-7100094483/06	ATC COND PVC-C INS IND.& OVR. SHIEDED ARMD INSTR. CABLE 2P X 0.5 SQMM TO 16P X 0.5 SQMM	9501000
59	EIL -NEW DELHI	GAIL (INDIA) LTD	PO.NO. GAIL/C&P/A096-110-YS-PR-1767/165/641	INSTRUMENTATION CABLE 1P X 1.5 SQMM TO 12 P X2.5 SQMM	82000000
60	EIL -NEW DELHI	GAIL (INDIA) LTD	PO.NO. GAIL/C&P/A096-000-YS-PR-1768/166/645	INSTRUMENTATION/ FS CABLE 1T X 1.5 SQMM TO 12P X 2.5 SQMM	21700000
61	EIL	GAIL, VIJAPUR	LOI.NO.GAIL/C&P/A095-000-YS-MR-1751/212/475 Dt:09.04.13	CU/TYPE-C/SHIELD/ST-2/ARMD/FR ST-2 SHEATHED INST. CABLE 1P X 1.5 SQMM TO 12P X 1.5 SQMM	31800000

FERTILISERS/REFINERIES/PETROCHEMICALS/PAPER PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
62	L&T HYDROCARBON	ONGC	PO.NO.75000-12302-UKMT-INSTRUMENT Dt:10.09.12	600/1000V ATC/EPR/SHIELD/LSZH/GS-W-BRAID/LSZH SHEATHED INST. CABLE 1P X 1.5 SQMM TO 12P X 1.5 SQMM	16800000
63	ISGEC HEAVY ENGINEERING	GAIL PATA	PO.NO.104668 Dt:24.04.13	650/1100 V CU COND.PVC TYPE C INSULATED FR PVC ST-2 ARM OVERALL SHIELED INSTRUMENTATON CABLE 1P X 1.5 SQMM TO 12P X 1.5 SQMM	21900000
64	ISGEC HEAVY ENGINEERING	GAIL PATA	PO.NO.104669 Dt:29.04.13	650/1100 V CU COND.PVC TYPE C INSULATED FR PVC ST-2 ARM OVERALL SHIELED INSTRUMENTATON CABLE 1P X 1.5 SQMM TO 12P X 1.5 SQMM	10900000
65	HONEYWELL AUTOMATION LTD	CPCL	PO.NO.4403345560 Dt:21.05.13	INSTRUMENTATION CABLE 1P X 1.5 SQMM & 8T X 1.5 SQMM	9878000
66	IOCL MAUHURA	MATHURA REF.	PO.NO. RMRM120212/23904913 Dt:26.06.13	INSTRUMENTATION CABLE 1P X 1.5 SQMM TO 12P X 1.5 SQMM	7726000
67	L&T LTD.	ONGC HRP-II	PO.NO.06SP/75000-15709/UKMT Dt:27.06.13	INSTRUMENTATION CABLE 1P X 1.5 SQMM TO 12P X 2.5 SQMM	19600000
68	R.S ELECTRICALS	NIL	PO.NO.RS/P.O./CABLE/13/141A Dt:13.07.13	300/500V CU/XLPE/O-ALL SHIE. AL.TAPE/PVC TYPE ST-2/STEEL WI.ARMED.PVC TYPE ST-2 SCREE. CABLE 2C 0.75 SQMM TO 6C X 0.75 SQMM	934000
69	IOCL NOIDA	MULTIPLE SITES	PO:PLMCOTFW17/23917720 DT-17.07.13	1100V ATC/TYPE-C/O-SHIELD/ST-1/W-ARMED/FRLS ST-1 SHEATHED CABLE 1T X1.5 SQMM TO 8T X 1.5 SQMM	20800000
70	GAIL(INDIA) LTD.	NIL	PO.NO.GAIL/PA13/43409/5700024856/MKV Dt:30.07.13	CU/PVC-C/AL.TAPE/STRIP WI.ARMED./FRLS PVC SHEATED INS CABLE 1T X 1.5 SQMM TO 12P X 1.5 SQMM	9320000
71	IOCL PANIPAT	NIL	PO.NO. PRMM12210123924500 Dt:23.07.13	CU/PVC/ARMED.INST CABLE 1P X 1.5 SQMM TO 12P X 1.5 SQMM	39000000
72	BPCL-	NIL	PO.NO.4504443263 Dt:06.02.14	1100V/CU/GLASS MI. TAPE/TYPE-C/ST-2/IND.O-ALL SHIEL./AL-TAPE/ATC/ARMED/FRLS PVC ST-2 SHEATHED INST CABLE 1P X 1.5 SQMM TO 12P X 1.5 SQMM	9340000

FERTILISERS/REFINERIES/PETROCHEMICALS/PAPER PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
73	FABTECH PROJECT	IOCL PRADEEP	PO.NO.4500027785 DT-10.06.14	500V ATC/GLASS MICA TP./SILICON/O-SHIELD/LSZH/W-ARMED/LSZH SHEATHED FS CABLE 1P X 1 SQMM TO 12T X2.5 SQMM	16200059
74	BPCL-NOIDA	NIL	CONTRACT NO.4600523761 Dt:06.06.14	1.1 kV/CU/TYPE-C/I-O-ALL SHIEL/ST-2/ARMED/FRLS PVC ST-2 SHEATHED INST CABLE 2P X 1.5 SQMM & 6P X 1.5 SQMM	8880496
75	BPCL-NOIDA	NIL	PO.NO.4504622725 Dt:13.06.14	1.1 kV/CU/TYPE-C/I-O-ALL SHIEL/ST-2/ARMED/FRLS PVC ST-2 SHEATHED INST CABLE 2P X 1.5 SQMM & 6P X 1.5 SQMM	7165659
76	IETS	MANGLA OIL FIELD BADMER RAJASTHAN	PO.NO.M205DCL11123-CPF-CN-PO-0001 Dt:16.06.14	CU/TYPE-C/SHIELED./ST-2/ARMED/FRLS PVC ST-2 SHEATHED INST FS CABLE 1P X 1.5 SQMM TO 12P X 2.5 SQMM	11724039
77	TECHNIP	JBF PATA PLANT	PO.NO.B2450-0000-PO Dt:01.07.14	1.1 kV/CU/XLPE/SHIELED/ST-2/ARMED/PVC ST-2 SHEATHED INST CABLE 1P X 1.5 SQMM TO 24P X 2.5 SQMM	19514411
78	TRIVENI ENGINEERING & INDUSTRIES LTD.	BPCL KOCHI	PO.NO.6300013782 Dt:04.07.14	1100V/CU/TYPE-C/SHIELED/ST-2/ARMED/FRLS PVC ST-2 SHEATHED INST CABLE 1P X 1.5 SQMM TO 12P X 1.5 SQMM	12873712

IT PARK/METAL/PORT/HOSPITAL/RAILWAY & OTHER PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
1	TAS-AGT	TATA JAMSHEDPUR	PO.NO.TAS-2014-15-JSR-MAT-037 Dt: 26.12.14	1.1 kV/AL/CU/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 2C X 10 SQMM TO 4C X 6 SQMM	3578000
2	L&T LTD.	DURGAPUR COB	LOI.NO.LTCD/MMHIC/BHILAI BF8-CABLES/SDT/530 Dt: 24.12.14	1.1 kV/AL/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 3C X 6 SQMM TO 3.5C X 185 SQMM	14125314
3	ETA DMRC	CE-10&CE-11	PO.NO.M/C Dt:24.12.14	600/1000V/CU/XLPE/LSZH/ARMD/LSZH SHEATHED LT POWER /LT FSCABLE 3C X6 SQMM TO 3C X 400 SQMM	61728287
4	INTERNATIONAL TRACTORS PVT LTD.	NIL	PO.NO.ITL/2015/1100136 Dt:29.01.15	1.1 kV/AL/CU/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 4C X 4 SQMM TO 3.5C X 400 SQMM	18318978
5	ALSTOM T&D INDIA LTD.	MEGHA PROJECT	MOM NO-NIL Dt:30.01.15	1.1 kV/AL/PVC/XLPE/TYPE-A/ST-1/ARMD/FRLS PVC ST-1 SHEATHED LT POWER CABLE 1c x 630 SQMM TO 3.5C X 300 SQMM	35943575
6	TATA STEEL LTD.	NIL	PO.NO.2100395073/101 Dt:16.03.15	1.1 kV/AL/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 3C X 70 SQMM TO 3C X 300 SQMM	8798000
7	SIEMENS LTD.	MEPL	PO.NO.4505869835 Dt:02.04.15	1.1 kV/AL/CU/XLPE/FRLS PVC ST-2 SHEATHED LT POWER CABLE 2C X4 SQMM TO 3.5C X 400 SQMM	29411198
8	STERLING&WILSON LTD.	COCHIN INTERNATIONAL AIRPORT	PTPL SR.NO.30790 Dt:10.04.15	1.1 kV/AL/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 3.5C X 240 SQMM & 32.5C X 400 SQMM	15069761
9	SIMPLEX INFRASTRUCTURES LTD.	NIL	PO.NO. P028692869/150504000002 Dt:03.04.15	1.1 kV/AL/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 3.5C X 35 SQMM TO 4C X 25 SQMM	20251995
10	ALSTOM T&D INDIA LTD.	TANTRANSCO-RASIPALAYAM	MOM Dt:14.04.15	1.1 kV/CU/AL/XLPE/TYPE-C/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 2C X 16 SQMM TO 4C X 300 SQMM	9283260
11	TATA STEEL LTD.	NIL	PO.NO.2100397896/101 Dt: 08.04.15	1.1 kV/CU/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 3C X 25 SQMM	818000
12	B.R.B.D.	CENTRAL PARK-2 SITE-PHASE-2	PO.NO.BRBD APPUR-15-16-00109-1 Dt:14.04.15	1.1 kV/AL/CU/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE	

IT PARK/METAL/PORT/HOSPITAL/RAILWAY & OTHER PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
				3.5C X95 SQMM TO 4C X35 SQMM	12982207
13	SHAFT SINKERS MAURITIUS LTD.	RIICO	PO.NO.3253SSM-HZL IN Dt: 22.04.15	1.1 kV/CU/XLPE/ST-2/ARMD/FRLS PVC ST-2 SHEATHED LT POWER CABLE 1C X 95 SQMM TO 3C X 185 SQMM	9232250
14	MICRON ELECTRICAL	KIAL-KERALA	PO.NO.MEK:034:2015 Dt:20.04.15	1.1 kV/AL/CU/XLPE/PVC/ST-2/ARMD/LSZH SHEATHED LT POWER CABLE 2C X 4 SQMM TO 3.5C X 400 SQMM	16135811
15	ASIAN PAINTS LTD.	NIL	LOI.NO.NIL Dt:01.04.15	1.1 kV/AL/CU/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 3C X 4 SQMM TO 4C X 150 SQMM	18809478
16	L&T LTD.	IOCL DEVANGONTHI	PO.NO.MAIL Dt:15.05.15	1100V/CU/AL/XLPE/ST-2/ARMD/FRLS PVC ST-2 SHEATHED LT POWER CABLE 3C X 4 SQMM TO 4C X 10 SQMM	4239000
17	ALSTOM T&D INDIA LTD.	MSETCL AURANGBAD	MOM Dt:24.04.15	1.1 kV/CU/AL/TYPE-A/ST-1/ARMD/FRLS PVC ST-1 SHEATHED LT POWER CABLE 2C X 6 SQMM TO 4C X10 SQMM	8345380
18	PARADISE ELECTRICALS INDUSTRIES LTD.	NIL	PO.NO.KEI-PO-001 Dt:17.06.15	1.1 kV/AL/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 3C X 4 SQMM TO 3.5C X 300 SQMM 3C X 16 SQMM TO 3.5C X 300 SQMM	11641636 14506565
19	VOLTAS LTD.	CMRL GAMMON PACKAGE-UAA-02&03	LOI.NO.DPG/CMRL/880 Dt:05.05.15	1.1 kV/CU/AL/XLPE/GLASS MIC. TAPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 4C X 10 SQMM TO 4C X 400 SQMM	50309080
20	TRANSTONNELSTROY-AFCONS JV	CMRL UG PACKAGE 05	PO.NO.4100007610 Dt:05.05.15	0.6/1 kV/AL/CU/GLASS.MIC. TAPE/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 3C X4 SQMM TO 4C X 300 SQMM 3C X 4 SQMM TO 4C X 6 SQMM	46520250 3767723
21	CABLE SALES & SERVICE INDIA PVT LTD.	NIL	PO.NO.CSS/K-ANT-HMC/15-16/DU/08 Dt:22.05.15	1.1 kV/AL/XLPE/CU/PVC/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 3C X 6 SQMM TO 4C X 25 SQMM	27700742
22	JAKSON LTD.	ANTARA SENIORLIVING DEHRADUN PROJECT	PO.NO.MAIL Dt:23.05.15	1100V/AL/CU/PVC/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE 3C X 6 SQMM TO 4C X 25 SQMM	17220770
23	ABB INDIA LTD.	ABB - RAYALSEEMA (APGENCO)	LOI.NO.MAIL. Dt:29.05.15	1.1 kV/AL/XLPE/ST-2/ARMD/FRLS PVC ST-2 SHEATHED LT POWER CABLE	

IT PARK/METAL/PORT/HOSPITAL/RAILWAY & OTHER PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
				1C X 630 SQMM TO 4C X 400 SQMM	19352810
24	ETA ENGINEERING PVT LTD.	CHENNAI METRO RAIL	PO.NO.CE/59/99 Dt:01.04.15	1000V/CU/GLASS MIC.TAPE/XLPE/LSZH/ARMD/LSZH SHEATHED FS CABLE	
				3C X 35 SQMM TO 4C X 400 SQMM	176998965
25	JINDAL STEEL & POWER LIMITED	ANGUL	PO:3561000882DT-25.05.15 Dt:25.05.15	1.1 kV CU/AL/XLPE/ATC-W-BRAID/CU TAPE/ST-2/UN-ARMD/FRLS ST-2 SHEATHED CABLE	
				3C X 4 SQMM TO 3C X 240 SQMM	23753140
26	BAJAJ ELECTRICAL	ORIENTAL STRUCTURAL ENGINEERS PVT LTD, ETAWAH CHAKERI	PO.NO.EPBU/ORIENTAL/PN/SP/002 Dt:08.06.15	1.1 kV/AL/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE	
				3.5C X 35 SQMM TO 4C X 16 SQMM	16949978
27	ETA ENGINEERING PVT LTD	CMRL-L&T -SUCG PACKAGE (CHENNAI METRO TUNNELING)	PO:CE73/99 DT-24.06.15	600/1000V/AL/ CU/GLASS MICA TP./XLPE/FR LSZH/ARMD/FR LSZH SHEATHED FS CABLE	
				3C X 6 SQMM TO 4C X 400 SQMM	12921845
28	B.E.CONTRACT PVT LTD.	NIL	Dt:20.07.15PO.NO.BE-15/IREO-PANCHKULA/LJ/310	1.1 kV/AL/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE	
				2C X 6 SQMM TO 4C X 25 SQMM	41367729
29	SCHNIDER ELECTRIC	PHPA BHUTAN PROJECT	PO.NO.5362-4510066520 Dt:30.11.15	1.1 kV/AL/XLPE/CU/TYPE-C/ST-2/FRLS PVC ST-2 SHEATHED LT POWER CABLE	
				2C X 16 SQMM TO 3.5C X 400 SQMM	19286274
30	JINDAL STEEL & POWER LTD.	MARKET 3&4 FROM COKE OVEN BATTERY MARKET & MARKET 8&9 FOR BLAST FURNACE	PO.NO.3561001112 Dt:15.07.15	1.1 kV/AL/TYPE-A/ST-1/ARMD/PVC ST-1 SHEATHED LT POWER CABLE	
				3C X 16 SQMM TO 3.5C X 240 SQMM	120724778
31	TAKRAF TENOVA	POC-316-KNPC	PO.NO.4310005392 Dt:17.07.15	0.6/1(1.2) kV/CU/PVC/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT POWER CABLE	
				1C X 4 SQMM TO 4C X 16 SQMM	7889740
32	BLUE STAR LTD.	BMRC	PO.NO.2000109714 Dt:27.07.15	600/1000V/CU/XLPE/LSZH/ARMD/GLASS/MIC/FS/LSZH SHEATHED LT POWER CABLE	
				3C X4 SQMM TO 4C X 185 SQMM	13101590
				3C X 4 SQMM TO 3.5C X 300 SQMM	8791065

IT PARK/METAL/PORT/HOSPITAL/RAILWAY & OTHER PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
33	SANDHAV OFFSHORE ENGG.	RESTORATION OF POWER SUPPLY AT UNMANNED PLATFORMS SHMHN AND ICCOMPLEXES OF MH-ASSET(ONGC)	PO.NO.SOEC/108/2015-16 Dt:24.07.15	1.1 kV/AL/XLPE/CU/ATC/GLASS. MIC/ ST-2/ARMD/FRLS PVC ST-2 SHEATHED/FS/ LT POWER CABLE	
				2c x 6 sqmm to 4c x 300 SQMM	14529588
34	CAP CAB INDIA LTD		CAPCAB/VC/08-09/0303 DT 03/03/2009	LT XLPE CU COND 3CX2.5 SQMM	8800000
				2CX2.5 SQMM UPTO 19CX2.5 SQMM	14000000
35	BHEL	HAZIRA	4588532 DT 20.02.2009	CU COND PVC INS	
				2CX2.5 SQMM UPTO 19CX2.5 SQMM	10700000
36	ABB LTD	DIAL	ABB/LOI/DIAL/09-10/KEI DT 30/07/09	LT XLPE CU ARMD CABLE	
				4CX2.5 SQMM UPTO 19CX2.5 SQMM	13100000
37	BHEL RANIPET	BONGAIGON, ARAVALI & VALLUR	4292058 DT 17.08.09	LT CU COND PVC INS UNARMD 3CX2.5 SQMM	9616000
38	BHEL RANIPET	BONGAIGON, ARAVALI & VALLUR	4292090 DT 30.08.09	LT CU COND PVC INS UNARMD	26700000
39	BRAHMANI RIVER PELLETS LTD	JAIPUR	1241-0571 DT 07.10.09	LT CU ARMD XLPE INS	
				4CX1.5 SQMM UPTO 14CX1.5 SQMM	7900000
40	MCNALLY BHARAT ENGG CO.	HZL	SO 09901/PR 10001794 & 10001802/LO/GC DT 30.10.09	LT CU ARMD PVC INS/ FRLS	8313000
41	SMS INDIA PVT LTD	RSP		CONTROL/CU/XLPE/ARMD 3CX1.5 TO 24CX1.5	7973000
42	ABB LTD	HINDALCO MAHAN	3191295737	CONTROL/CU/PVC/FRLS/ARMD3CX2.5 TO24CX2.5	8514000
43	MCNALLY BHARAT ENGG. CO. LTD	IEPL NAGPUR	NIL (PO.NO. 10009898 DT 18/10/10)	CONTROL/CU/PVC-A/ARMD 2CX2.5 TO 24CX 2.5	17600000
44	MCNALLY BHARAT ENGG CO. LTD	GAP ADITYA	10011868	CONTROL/CU/PVC/FR/UN-ARMD 3CX 2.5 TO 24CX 2.5	9899000
45	IOT INFRASTR. & ENERGY SERV. LTD	PARADIP BOOT EPC	ER02100101/201000675	CONTROL/CU/XLPE/FRLS/ARMD 7CX2.5 TO 27CX2.5 SQM	22500000
46	ABB LTD	LUCKNOW & BAHADURGARH	3191338238	CONTROL/CU/PVC/ARMD 3CX2.5 TO 27CX 2.5 SQMM	8700000
47	ABB LTD	ARYAN COAL	MAIL (PO.NO. 3191365944 DT 20.04.11)	CONTROL/CU/PVC-A/XLPE/ARMD 3CX2.5 TO 9CX 2.5 SQM	9797000
48	SIEMENS LTD	HZL, MELTING & CASTING - UTTARAKHAND	I&S/30ABK0073/LOI/001	CONTROL/CU/PVC/FRLS/ ARMD 2CX1.5 TO 19CX 2.5 SQM	12900000
49	BHEL HYD.	ISSCO BURNPUR	PO:R711A00240 DT-10.08.11	CONTROL/CU/PVC-A/FRLS/ARMD 3CX2.5 TO 24CX2.5	14100000
50	SMS INDIA PVT. LTD	RSP	EMAIL (PO.NO. 4505686 DT 30.08.11)	CONTROL/CU/XLPE/ARMD 3CX2.5 TO 19CX2.5 SQMM	3337000

IT PARK/METAL/PORT/HOSPITAL/RAILWAY & OTHER PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
51	ASHTAVINAYAKA CONSTRUCTION	NIGERIA	AST/KEI/PO/Nig/2011-12/843	CONTROL/CU/XLPE/ARMD 4CX2.5 TO 12CX2.5 SQMM	12500000
52	AREVA T&D INDIA LTD	HINDALCO ADITYA & MAHAN	LOI BY MAIL	CONTROL/CU/PVC-A/UN -ARMD 3CX2.5 TO 30CX 2.5 SQMM	25700000
53	BHEL -TBG (LODHI ROAD)	DPL DURGAPUR	PO.NO. 22IP264	CONTROL/1.1 kV/CU/PVC/ARMD 2CX 2.5 TP 19CX2.5 SQMM	13500000
54	AREVA T&D INDIA LTD	PUNJ LLOYD LTD -DHARIWAL	5427-4500534658	CONTROL/1.1 kV/CU/PVC/FRLS/ARMD 5CX2.5 TO 24CX2.5	12100000
55	TOYO ENGG. INDIA LTD	SBR AT PANIPAT, HARYANA	LOI. NO. PRC/6291Y/L/5161	CONTROL/1.1 kV/CU/XLPE/ARMD 2CX2.5 TO 24CX2.5	41000000
56	L & T LTD	BHILAI SINTER PLANT-3	LOI:HQ:VTR:E&IC:BSP-2 DT-09.02.12	CONTROL/1.1 kV/CU/XLPE/ARMD/UN-ARMD 2CX4 TO 4CX2.5	13200000
57	BHEL TRICHY	SHREE SINGAJI	FB-170-7100086486/06	CONTROL/1.1 kV/CU/XLPE/FRLS/ARMD 3CX2.5 SQMM	9476000
58	MACAWBER BEEKAY PVT. LTD	VEDANTA	C-1024/DIR/12/281	CONTROL/1.1 kV/CU/HR PVC-C/FRLS/ARMD 3CX 2.5 TO 9CX2.5	2202000
59	ALSTOM	L& T LTD DHUVARAN	PO: ON MAIL DT-04.05.12	CONTROL/1.1 kV/CU/PVC/ST-1/FRLS/ARMD 5CX1.5 TO 27CX2.5 SQ	8372000
				3C X 1.5 SQMM TO 24C X 1.5 SQMM	38300000
60	ABB LTD	CHHABRA	BY MAIL (PO.NO. 3191480251 DT 17.07.12)	1.1 kV CU COND PVC-A INS ARMD/ FRLS CONTROL CABLE	
				7C X 1.5 SQMM TO 19CX 1.5 SQMM	17500000
61	BHEL -LODHI ROAD	APGENCO RAYALSEEMA STAGE IV	PO.NO. 222P166	1.1 kV CU COND PVC INS ARMD CONTROL CABLE	
				5C X 2.5 SQMM TO 19C X 2.5 SQMM	10500000
62	ALSTOM T&D INDIA LTD	TSECL	PO:5427-4500578325 DT-21.08.12	1.1 kV CU COND PVC-A INS ARMD/ FRLS CONTROL CABLE	
				2C X 2.5 SQMM TO 14C X 2.5 SQMM	10200000
63	BHEL -TRICHY	PRAYAGRAJ SITES	4220392E DT 21.06.12	1.1 kV CU/TYPE-A/ST-1/ARMD/FRLS ST-1 SHEATHED CONTROL CABLE	
				14C X 1.5 SQMM	37300000
64	PROMAC ENGG INDUSTRIES LTD		PO.NO. 495/2060	1.1 kV CU COND XLPE INS ARMD CONTROL CABLE	
				2C X 1.5 SQMM TO 27C X 1.5 SQMM	9076000
65	ALSTOM GRID	STERLITE DHULE	PO.NO. 5427-4500603843	1.1 kV CU COND PVC-A INS ARMD/ FR CONTROL CABLE	
				3C X 1.5 SQMM TO 27C X 2.5 SQMM	27600000
66	BHEL -TRICHY	Krishnapatnam -Andhra Pradesh	PO.NO. FB-170-7100097423/06	1.1 kV CU COND XLPE INS ARMD CONTROL CABLE	
				2C X 2.5 SQMM & 3C X 2.5 SQMM	19600000

IT PARK/METAL/PORT/HOSPITAL/RAILWAY & OTHER PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
67	SIEMENS LTD	SRI LANKA	PO.NO. 4504327339 (AMEND.02 DT 22.0.13)	1.1 kV CU COND PVC INS ARMD CONTROL CABLE	
				4C X 1.5 SQMM TO 27C X 1.5 SQMM	8012000
68	L&T LTD	TATA CAPL	NIL	1.1 kV CU COND HR PVC-C INS ARMD CONTROL CABLE	
				12C X 1.5 SQMM TO 30C X 1.5 SQMM	7882000
69	ALSTOM T&D INDIA LTD	STERLITE BHOPAL	PO. NO. 5427-4500616669	1.1 kV CU COND PVC-A INS ARMD/ FR CONTROL CABLE	
				3C X 1.5 SQMM TO 27C X 2.5 SQMM	21700000
70	N.E. RAILWAY	GORAKHPUR	S/BG/CON/2012/8053&8054,8058,8059,8060/148	CU COND PVC INS ARMD CONTROL CABLE	
				6C X 1.5 SQMM TO 19C X 1.5 SQMM	9400000
71	ABB LIMITED	BHILAI STEEL	LOI	1100 V CU COND.PVC TYPE A INSULATION LT CABLE	
				3C X 2.5 SQMM TO 19C X 2.5 SQMM	17200000
72	MAHESHAWARI DISTRIBUTORS	NIL	PO.NO.MD/2013-14/0905/17	1.1 kV CU COND.XLPE /PVC INSULATION CONTROL CABLE	
				3C X 1.5 SQMM TO4C X 2.5 SQMM	31100000
73	L&T LIMITED	GMR CHATTISGARH	PO.NO.4032000951	CU COND.CONTROL CABLE	
				3C X 1.5 SQMM TO 3C X 2.5 SQMM	22600000
74	TECHNO ELECTRIC &ENGINEERING CO.	RAIGARH & JABLPUR	LOI.NO. 05666/05669JB/05674/13-14	1.1 kV CONTROL CABLE	
				2C X 2.5 SQMM TO 27C X 2.5 SQMM	18400000
75	TATASTEEL LTD.	KALINGANAGAR	PO.NO.2300033882/118	1.1 kV CU COND. PVC INSULATION CONTROL CABLE	
				10C X 1.5 SQMM TO 3C X 1.5 SQMM	25900000
76	SIEMENS LTD.	IISCO	PO.NO.4504658809	1100V CU/XLPE INS.ST-2 GS.WI ARMD ST-2 SHEA CONTROL CABLE.	
				2C X 1.5 SQMM TO 3C X 2.5 SQMM	8228000
77	TECHNO ELECTRIC CO.LTD.	GWALIOR	LOI.NO.05669BN/GW/IN&05673IN/13-14	1.1 kV/CU/PVC TYPE A/PVC/ GS WI.ARMD. FR PVC ST-1 SHEATED CONTROL CABLE	
				2C X 2.5 SQMM TO 27C X 2.5 SQMM	18300000
78	TECHNO ELECTRIC&ENGINEERING CO.	KURNOOL	PO.NO.0681KN/13-14/733 Dt:31.07.13	1.1 kV/CU/PVC TY-A/PVC/ WI.ARMD.PVC TY.ST-1 SHEATED LT CONTROL CABLE	
				2C X 2.5 SQMM TO 27C X 2.5 SQMM	10200000
79	WEST BANGAL STATE ELECTRICITY DISTRIBUTION COMPANY	NIL	PO.NO.P&C/P-33/2012-13(ACE-IE)/KEI/28 Dt:03.09.13	1100V/CU/PVC/PVC/W-ARMD/ PVC SHEATED CONTROL CABLE	

IT PARK/METAL/PORT/HOSPITAL/RAILWAY & OTHER PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
				8C X 2.5 SQMM & 12C X 2.5 SQMM	13200000
80	SMS INDIA PVT.LTD.	IISCO	LOI.NO.MAIL DATED 05.09.13	CU/XLPE/ST-2/ARMD/PVC ST-2 SHEATED CONTROL CABLE	
				4C X 2.5 SQMM TO 24C X 2.5 SQMM	17500000
81	HINDALCO INDUSTRIES LIMITED	HIRAKUD POWER PLANT	PO:HKRC-1544 DT-01.11.13	1100V CU/TYPER-A/ST-1/W-ARMD/FRLS ST-1 SHEATHED CONTROL CABLE	
				5C X 2.5 SQMM TO 19C X 2.5 SQMM	9550000
82	MONNET ISPAT&ENERGY LTD.	SMS PROJECT	PO.NO.MIEL/HO/PRJ-5/SMS/LT CABLE/PO/2013/POH13 Dt:11.11.13	1.1 kV/CU/PVC-A/ST-1/ARMD/PVC ST-1 SHEATHED LT CONTROL CABLE	
				2C X 1.5 SQMMM TO 27C X 1.5 SQMM	11200000
83	BHEL TBG	NTPC RIHANDXTN	PO.NO.223P210 Dt:15.11.13	1.1 kV/CU/TYPER-A/ST-1/ARMD/FRLS PVC ST-1 SHEATHED LT CONTROL CABLE	
				5C X 2.5 SQMM TO 19C X 2.5 SQMM	9742000
84	MACAWBER BEEKAY PVT LTD.	NIL	PO.NO.C-1212/BO-21/8303/MND/DIR/13/3563 Dt:19.11.13	1.1 kV/CU/TYPER-A/ ST-1/ARMD/PVC ST-1 SHEATHED LT CONTROL CABLE	
				3C X 1.5 SQMM TO 19C X 2.5 SQMM	27500000
85	R.K ELECTRIC AUTOMATION LTD.	NESCL - PAKRI BARWADIH & PATRATU	PO.NO.4054/469 Dt:29.11.13	1.1 kV/CU/TYPER-A/ST-1/ARMD/PVC ST-2 SHEATHED LT CONTROL CABLE	
				3C X 2.5 SQMM TO 19C X 2.5 SQMM	11400000
86	RELIANCE INFCOM	RIL-COLCO	PO.NO.111/63006181 Dt:19.12.13	1.1 kV/CU/PVC/TYPER-A/ST-1/ARMD/PVC ST-1 SHEATHED LT CONTROL CABLE	
				2C X 2.5 SQMM & 7C X 2.5 SQMM	73600000
87	L&T LTD.	DMRC-CE09-LOT-2	LOA.NO. HQ:PI: DMRC:KSP: PKG:041 Dt:18.12.13	600/1000V/CU/XLPE/LSZH/ARMD/PVC LSZH SHEATHED FS CONTROL CABLE	
				2C X 2.5 SQMM TO 19C X 2.5 SQMM	17200000
88	BS LTD.	MPPTCL	PO.NO.BSL/PER-MP/PO-SUPPLY/14-15/16 Dt:21.04.14	1.1 kV/CU/TYPER-A/ST-1/UNARMD/PVC ST-1 SHEATHED LT CONTROL CABLE	
				2C X 2.5 SQMM TO 19C X 2.5 SQMM	40383600
89	BHEL TRICHY	SCCL PEGAPALL I UNIT-I-AP	PO.NO.FB-170-7100115510/06 Dt:26.05.14	1.1 kV/CU/XLPE/ST2/UNARMD/FRLS PVC ST-2 SHEATHED LT CONTROL CABLE	
				3C X 2.5 SQMM	8151000
90	HALDIA ENERGY	HALDIA PROJECT	YET TO RECEIVE	1100V CU/TYPER-A/ST-1/ARMD/FRLS ST-1 SHEATHED / SCREENED CONTROL CABLE	
				3C X 1.5 SQMM TO 12C X 2.5 SQMM	10060435

IT PARK/METAL/PORT/HOSPITAL/RAILWAY & OTHER PROJECTS

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
91	TECHNO ELECTRIC ENGG.	SONENAGAR SAMASTIPUR	LOI.NO.BSPTCL/SONENAGAR, SAMASTIPUR/14-15 Dt:21.11.14SO NENAGAR, SAMASTIPUR/14-15 Dt:21.11.14	1100V CU/TYPER-A/ST-1/ARMD/FR ST-1 SHEATHED CONTROL CABLE	
				2C X 2.5 SQMM TO 27C X 2.5 SQMM	9884000
92	L&T LTD.	BHILAI BF8	LOI.NO.LTCD/MMHIC/BHILAI BF8-CABLES/SDT/530 Dt:24.12.14	1.1 kV/CU/TYPER-C/ST-2/ARMD/FRLS PVC ST-2 SHEATHED CONTROL CABLE	
				3C X 2.5 SQMM TO 37C X 2.5 SQMM	99999213
93	ALSTOM T&D INDIA LTD.	MEGHA PROJECT	PO.NO.5427-4500763842 Dt:06.02.15	1.1 kV/ATC CU/TYPER-A/ST-1/ARMD/FRLS PVC ST-1 SHEATHED LT CONTROL CABLE	
				3C X 1.5 SQMM TO 27C X 2.5 SQMM	18894011
94	ALSTOM T&D INDIA LTD.	MEGHA PROJECT	PO.NO.5427-4500763884 Dt:06.02.15	1.1 kV/ATC CU/TYPER-A/ST-1/ARMD/FRLS PVC ST-1 SHEATHED LT CONTROL CABLE	
				3C X 1.5 SQMM TO 27C X 2.5 SQMM	19391698
				2C X 2.5 SQMM & 3C X 2.5 SQMM	12966320
95	ALSTOM T&D INDIA LTD.	GOKARNA	LOA.NO.LOA/KEI/SRI/14-15/132 Dt:07.02.15	1.1 kV/CU/TYPER-A/ST-1/ARMD/FR PVC ST-1 SHEATHED LT CONTROL CABLE	
				2C X 2.5 SQMM TO 27C X 2.5 SQMM	18121872
96	SIEMENS LTD.	MEPL	PO.NO.4505869835 Dt:02.04.15	1.1 kV/CU/XLPE/FRLS PVC ST-2 SHEATHED LT CONTROL CABLE	
				2C X 2.5 SQMM TO 24C X 2.5 SQMM	12375346
97	ASIAN PAINTS LTD.	NIL	LOI.NO.NIL Dt: 01.04.15	1.1 kV/CU/XLPE/ST-2/ARMD/PVC ST-2 SHEATHED LT CONTROL CABLE	
				3C X 1.5 SQMM TO 4C X 2.5 SQMM	9914570
98	RELIANCE JIO INFOCOMM	R4G-SMALL CELL PROJECT	PO.NO.112/63013039 Dt:29.04.15	1.1 kV/CU/TYPER-A/ST-1/ARMD/PVC ST-1 SHEATHED LT CONTROL CABLE	
				24C X 0.5 SQMM	46425600
99	ALSTOM T&D INDIA LTD.	SAIL BSP	PO.NO.5427-4500789632 Dt:03.06.15	1.1 kV/CU/TYPER-A/ST-1/ARMD/FRLS PVC ST-1 SHEATHED LT CONTROL CABLE	
				4C X 2.5 SQMM TO 24C X 2.5 SQMM	11484529
100	ESSAR STEEL LTD	INI CASTER	ESHL-SEZ/ETX/5300018488 DT 26.05.08	2PX0.75 SQMM TO 8PX1 SQMM	966000
101	NELLCO LTD	DMRC DELHI		1PX1.5 SQMM TO 6PX 1.5 SQMM	14400000
102	MCNALLY BHARAT ENGG CO.	IISCO - RMHS	07914/PR10004218/20/GC DT 05/04/10.	2 P X 1.5 SQMM & 8 P X 1.5 SQMM	7938000
103	GREEN BRILLIANCE ENERGY PVT. LTD	AKASHGANGA	GBP/FY 11-12/ROO/052	INSTRU/CU/FLAMERETARDENT 1PX1 TO 12PX0.75	12900000

IT PARK/METAL/PORT/HOSPITAL/RAILWAY & OTHER PROJECTS

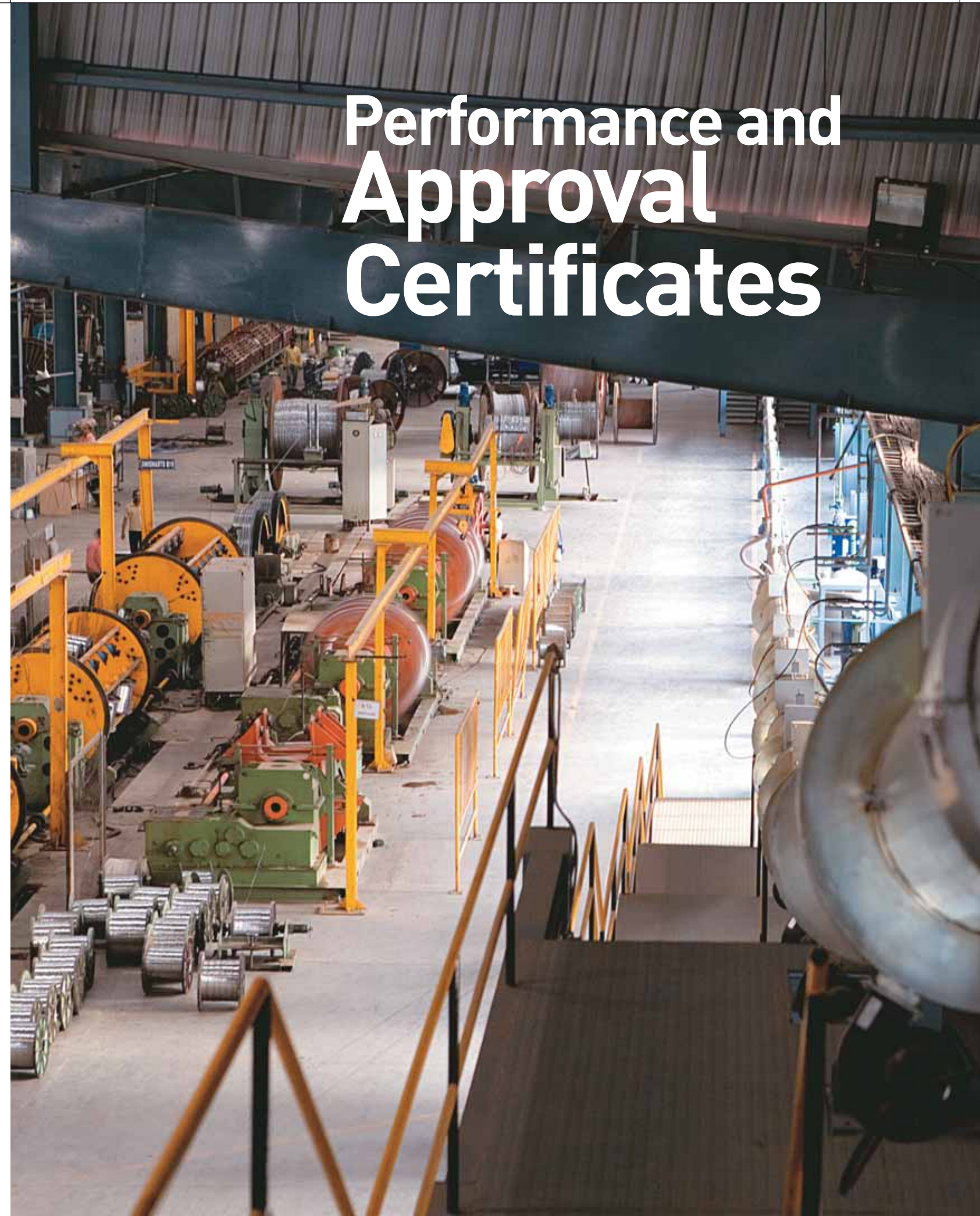
SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
104	BHEL HYD.	MSIL MANESAR	PO:R711A00207 DT-22.07.11	INSTRU/ATC/HRPVC-C/FRLS/ARMD1PX1.5 TO12PX0.5	18000000
105	PUNJ LLOYDS LTD	DHARIWAL	BY MAIL	CU COND PVC-C INS OVR. SCR. ARMD/ FRLS INSTRUMENT. CABLE	
				6P X 1.5 SQMM TO 16 P X 1.5 SQMM	32500000
106	L&T LTD.	DMRC-CE 09 LOT-2	PO.NO.E9664P04000008 Dt:27.01.14	1.1 kV/CU/GLASS MIC.TAPE/TYPE-A/O-ALL SHIEL./AL-TAPE/ATC/ST-1/ARMD/PVC ST-1 SHEATHED FS CABLE	
				1P X 1.5 SQMM & 1P X 2.5 SQMM	8170000

RUBBER CABLES

SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
1	SUZLON ENERGY LTD		4300053829	RUBBER CABLE CU	28101487
2	SUZLON ENERGY LTD		4300059228	RUBBER CABLE COPPER	49132264
3	SUZLON ENERGY LTD		4300067717		43253122
4	SUZLON ENERGY LTD		4300069435		45639875
5	SUZLON ENERGY LTD	-	430006934		18468580
6	MILLENNIUM AERO DYNAMICS PVT LTD	GMR	MADPL/KEI/LOI/003 DT 13/01/10	0.65/1.1 kV ATC CU/EPR/UN AR RUBBER CABLE	
				1CX25 SQMM UPTO 3CX70 SQMM	12500000
7	NEYVELI LIGNITE CORP. LTD		PO/10-11/002178/TC/ENQ/09-10/004355/MM12(01)/40/11 DT 10/08/10	11 kV ATC CU/EPR FLEXIBLE CABLE	
				3 C X 185 + 3 C X 95/3	82700000
8	NEYVELI LIGNITE CORP. LTD	NLC	PO/10-11/002902/TC/ENQ/10-11/000856/MM12(03)/40/11 DT 23/09/10	6.35/11 kV ATC CU/EPR FLEXIBLE CABLE	
				3 C X 50 + 1 C X 25	10600000
9	TATA PROJECTS LTD	2X500 MW BOP TPS BHUSAWAL	PG/2X500 MW BOP TPS Bhusawal/806 DT 18/10/10	CU/HR EPR/HOFR/ARMD FS CABLE 1CX630 SQ	7941000
10	BHILAI ENGG. CORP. LTD	ISP, RSP & BSL	PONO-1 :PO/MAT/10302 DT-31.10.10 AMD -I DT-03.11.10	1.1 kV ATC CU/EPR INSU. FLEX RUBBER CABLE	28400000
11	CONTROLLER OF PROCUREMENT		10B61C029/L-084 Dt: 29/09/2011	ATC COND EPR+LFH INS. LFH SH. RUBBER CABLE	
				1C X 2.5 SQMM TO 3C X 185 SQMM	8430500
12	LANCO INFRA TECH LTD	3X660 MW KORADI TPS	LITL/KORADI/ELEC/ FS Cable/LOA/008 (PO.NO. 4100068056 DT 15.03.12)	CU COND GLASS MICA TAPE, EPR INS ARMD FS CABLE	
				2C X 2.5 SQMM TO 4C X 35 SQMM	8317310
13	SIEMENS LTD	NEYVELI LIGINITE	4503976053 Dt:25/06/2012	1.1 kV ATC COND EPR INS PCP SH. RUBBER CABLE	
				3C X 2.5 SQMM TO 4C X 35 SQMM	12599982
14	NUMALIGARH REFINERY LTD (NRL)	WAX-134	FOA.NO. NRL/WAX-134/ A151/193 (PO.NO. 4500011943 DT 31.01.13)	1.1 kV CU COND EPR INS ARMD FS RUBBER CABLE	
				3C X 4 SQMM TO 14C X 2.5 SQMM	6704650
15	L&T LTD.	ONGC HRP-II	PO.NO.0GSP/75000-15078/ UKMT Dt:27.06.13	6/10(12)kV(E)&600/1000KV/ ATC/EPR/CU-BRAID/LSZH/GS-W-BRAID/LSZH SHEATHED HT RUBBER CABLE	
				1C X 6 SQMM TO 3C X 300 SQMM	44546762
16	AFCONS INFRASTRUCTURE LIMITED	ONGC HRD	PO:4500097317 DT-03.12.13	600/1000V ATC/EPR/LSZH/ GS-W-BRAID/LSZH SHEATHED RUBBER CABLE	
				7C X 2.5 SQMM TO 2C X 10 SQMM	10744843
17	AFCONS INFRASTRUCTURE LIMITED	ONGC HRD	PO:4500097395 DT-03.12.13	600/1000V ATC/EPR/LSZH/ GS-W-BRAID/LSZH SHEATHED RUBBER CABLE	
				1C X 6 SQMM TO 4C X 25 SQMM	23092546
18	AFCONS INFRASTRUCTURE LTD.	ONGC HRD PROCESS PLATEFORM	PO.NO.5700000031	600/1000V/CU/EPR/LSZH/ARMD/ LSZH SHEATHED RUBBER CABLE	

RUBBER CABLES					
SR. NO.	CLIENT	PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
19	CONTROLLER OF PROCUREMENT	NIL	PO.NO.12B61C002 Dt:05.03.14	3C X 2.5 SQMM TO 4C X 25 SQMM 440V/CU/SILICON/EPR/ RUBBER CABLE	19836181
				2C X 0.75 SQMM TO 3C X 185 SQMM	9038610
20	AFCONS INFRASTRUCTURE LTD.	NIL	PO.NO.5700000140 Dt: 21.04.14	600/1000V/ATC/EPR/LSZH/ ARMD/LSZH SHEATHED LT RUBBER CABLE	
				1C X 6 SQMM TO 4C X 240 SQMM	18364867

Performance and Approval Certificates



KEI WIRES & CABLES

BRUGG CABLES
Web connected

CERTIFICATION

TO WHOM SOEVER IT MAY CONCERN

This is to advise that we, M/s Brugg Kabel AG, Switzerland have signed a technical collaboration agreement for design, manufacture, testing of XLPE insulated cables 66KV / 110KV / 132KV / 220KV with M/s KEI Industries Ltd. D-90, Okha Industrial Area, Phase-I, New Delhi 110020 with manufacturing units located at Bhwadi Unit, SP-919920, RICO Industrial Area, Phase-III, Bhwadi, Dist Alwar 301019, Rajasthan & Chopanki Unit, Plot-A 290261262, Chopanki, Dist Alwar, Rajasthan 301019.

By virtue of this agreement, the complete manufacturing of High Voltage / Extra High Voltage cables covering voltage grades 66KV / 110 KV / 132KV / 154KV / 220KV shall be done as per Brugg's design and manufacturing systems and the product quality shall meet the required standards as per IEC 90040 / IS7098/IEC 60207 as applicable. M/s. KEI Industries Ltd shall manufacture the above voltage class of cables under Licence from M/s. BRUGG KABEL AG, Switzerland.

BRUGG KABEL AG's selected Type of Raw materials, designs of products, production procedures, Routine testing, Type testing and Prequalification testing etc. shall be adopted by M/s KEI Industries Ltd, manufacturing plants in India under supervision of BRUGG KABEL AG.

BRUGG KABEL AG will assist M/s KEI Industries Ltd. for preparation and execution of the Tests according to above stated standards.

For HV cable systems project of above voltage categories executed under this agreement, Brugg Kabel AG is prepared to assure back up support for successful operation for offered cable and accessories.

Manish Burger
Harish Nylsnegger
Head Director - Business Development

CH-5201 Brugg, Switzerland February 19th, 2010

Headquarters
Chief Engineer
Pathankot Zone
Pathankot - 145001

11 Jun 2015

27058/XXVI / 77 /E2(D)
HQ CWE Pathankot

CWE Mamun
CWE Yol
CWE Jammu

M/s KEI Industries Ltd i.e. KEI Brand HT cable upto & incl 33 KVA.LT & Control Cables

1. A photocopy of E-2 Wks (Des) Sub Dte of Works Engineer-in-Chief's Branch Integrated HQ of MoD (Army) Kashmir House, Rajaji Marg, New Delhi-110 011 letter No 43285/CMPT/447/ Des-2 dated 30 Jun 2014 is fwd herewith for your further necessary action pl.

(Jainesh Kumar)
SE, SAG(NF)
Dir(Design & Ptg)
For Chief Engineer

Encls: (As above)

Internal -
E-8 Sec } for info
E-4 Sec }

HARYANA VIDYUT PRASARAN NIGAM LIMITED
(Regd. office: Sector-6 Shakti Bhawan, Panohala)
Office Of the
HVPN Executive Engineer/Transmission System Division, HVPNL, Meh. Road, Gurgaon-122001

Date: 4th March 2011

To Whomsoever it may Concern

This is to certify that KEI Industries Limited, New Delhi has successfully supplied full quantity of 24.705 Kms. 66 KV (E), 1X1200 Sq.mm, Aluminum XLPE Cable against Purchase Order No. HDP-1776/REC-090/Xen/Project(S/Str.) Date. 12.11.2010.

The Quality and service offered by KEI Industries Limited during Execution of above order is found good and satisfactory.

Executive Engineer,
TS Division HVPNL Gurgaon
Executive Engineer
T.S. Divn. HVPNL, Gurgaon

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED
(Wholly owned by Government of Karnataka Undertaking)

No: BESCOM/GM/TE/HC/2011/059.06-07/CYS-10V
Date: 28-09-06

Corporate Office
K.R. Circle
Bangalore-560 091
Date: 28-09-06

OFFICIAL MEMORANDUM

Sub: Vendor approval for HT & LT UG Cable - Reg

Ref: 1) Technical Committee Meeting held on 14-9-06.
2) Firm's Ltr. dated 29/6/06

The firm namely M/s. KEI Industries Limited, S/wads SP-920, RICO, Industrial Area phase III Bhwadi, District Alwar Rajasthan-301019 have requested for vendor approval for the 11 KV HT XLPE / PVC UG cables and 1.1 KV LT UG cables of various sizes. The firm have produced CPRI type test certificates for the following sizes of cables:

1. 3 C x 300 Sq.mm HT cable, 1.1 KV 3 C x 300 Sq.mm & 600/1000 volts 3 x 240 Sq.mm XLPE HT LT Power Cables.

The test certificates have been verified and found to be generally in conformity with the IS. The factory is also inspected and is found to have all the necessary infrastructure for manufacturing cables and is having all the testing facilities to conduct routine and acceptance test as per IS.

Approval is therefore hereby accorded for M/s. KEI Industries Limited, as approved vendors to BESCOM for supply of both 11 KV HT UG cable and 1.1 KV LT UG Cable of various sizes for use in MS buildings, Layouts etc., in BESCOM area. The validity of approval is upto Sept-2009. The prospective consumers who purchase the cables shall stand guaranteed for the cables and it must be noted that normally the following sizes of cables are used in BESCOM.

STEEL AUTHORITY OF INDIA LIMITED
ROURKELA STEEL PLANT, ROURKELA
MATERIALS MANAGEMENT - PIVD
Vendor Registration Certificate

REF. NO. NM/REGN/ 4598/15495/BB2. DATED: 04-AUG-10
M/s. KEI INDUSTRIES LTD.
1ST FLOOR
33, DR. SUNDARI MOHAN AVENUE
NEAR PARK CIRCUS LADIES PARK
KOLKATA-700014

We have pleasure to register you as an approved vendor of ESP for the items as listed below:

SL. NO	DESCRIPTION	PRODUCT CODE
1	PVC INSULATED & SHEATHED LT POWER CABLE	325/001/04
2	PVC INSULATE ARMoured/UNARMoured LT CABLES.	325/001/30
3	WELDING CABLE	325/001/35
4	CONTROL CABLES	325/002/01
5	INSTRUMENTATION CABLE	325/002/02
6	ELASTOMER INSULATING FLEXIBLE CABLE 110KV	325/045/01

REGN. NO. VALIDITY SUPPLIER CODE STATUS OF FIRM CATEGG
NM/REGN/04598/10 02-AUG-15 00211/01 PRIVATE

Note: i) We may not necessarily send all our enquiries for these category of items as and when we see in the market. This registration does not guarantee award of contracts.
ii) We reserve the right to demand from you such securities as may be necessary as an earnest of your fulfilling contracts / supply orders which we may award you.
iii) We may eliminate your name from our panel without assigning any reason.
iv) It may be your responsibility to apply for renewal of regn. on payment of stipulated renewal fee and production of requisite documents 90 days in advance before expiry of registration period to keep your name in the register of approved suppliers.
v) For Tenderers/Dealers the validity of the certificate is maximum for 3 Yrs. subject to submission of valid dealer's certificate every year to PIVD section.

Head PIVD
RSP/SAIL/ROURKELA
(S. S. DAS)
AGM (NMG) PIVD
SAIL, R.S.P. Rourkela

KEMA 08-1044

TYPE TEST CERTIFICATE OF COMPLETE TYPE TEST

OBJECT: Three-core power cable
TYPE: 1800 kV 3CX4000SQMM CLXLPE/SW/PVC

Rated voltage (U _N /U _M)	1800 kV	Conductor material	Cs
Conductor cross-section	3400 mm ²	Insulation material	XLPE

MANUFACTURER: KEI Industries Limited, New Delhi, India
CLIENT: KEI Industries Limited, New Delhi, India
TESTED BY: KEMA HIGH-VOLTAGE LABORATORY, Amhem, the Netherlands
DATE(S) OF TESTS: 17 December 2007 until 18 July 2008

The object, constructed in accordance with the description, drawings and photographs incorporated in this Certificate, has been subjected to the series of proving tests in accordance with IEC 60502-2.

This Type Test Certificate has been issued by KEMA following exclusively the STL Guides.

The results are shown in the record of Proving Tests and the oscillograms attached hereto. The values obtained and the general performance are considered to comply with the above Standard and to justify the ratings assigned by the manufacturer as listed on page 4.

This Certificate applies only to the object tested. The responsibility for conformity of any object having the same designations with that tested rests with the Manufacturer.

This Certificate consists of 35 pages in total.

© Copyright. Only integral reproduction of this Certificate is permitted without written permission from KEMA. Electronic copies in e.g. PDF format or scanned version of this Certificate may be printed and have the same legal status as the original.
The second and fourth version of this Certificate is the only valid version.

KEMA Nederland B.V.
P.O. Box 2400, Enschede, 7500 ZG, The Netherlands
Managing Director
Amhem, 22 September 2008

-2-

e) 11 KV HT UG cables of sizes 3 x 75, 3 x 240 & 3 x 400 Sq.mm
b) 1.1 KV LT UG cables of size 3 1/2 x 120 Sq.mm, 3 1/2 x 185 Sq.mm, 3 1/2 x 240 Sq.mm and 3 1/2 x 400 Sq.mm.

General Manager (Tech),
BESCOM

Copy to:-
The Chief General Managers (Elec), BMAZ/SR/Z/OTRAZ for information.
All General Managers, (C.O&M) Circles, BESCOM.
All Executive Engineers Elec., (C.O&M) Divisions, BESCOM.
M/s. KEI Industries Limited, Bhwadi SP-920, RICO, Industrial Area phase III Bhwadi, District Alwar Rajasthan-301019

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

No. JDA/CE/Elect/2006/D- 884 Dated: 28/09/06

OFFICE ORDER


In accordance with the powers confirmed of the undersigned as per schedule of powers of JDA Circle Engineer-I hereby order that in JDA BSR part A Electric Work for HT/LT lines works Item No. 4 & 7 "Providing and Laying underground 33KV --- XLPE(HT) Cable" the Existing Printed Text "approved make ICC/NICCO/GLOSTAR IC/TROPO-DOUR /TORRENT/POLY/CAB" is to be Read/Printed as "Approved make ICC/NICCO/GLOSTAR/IC/TROPODOUR/TORRENT/POLY/CAB/KEI".

The above order is brought into the force with immediate effect in the jurisdiction of JDA.

Circle Engineer-I & TA to Director(Engg.) JDA, Jaipur

Copy to following for Information:-
1. Director (Engg.), JDA, Jaipur.
2. ACE-I/II/CE-II, JDA, Jaipur
3. ZE(Electrical)-I/II, JDA, Jaipur.
4. Guard File.

Circle Engineer-I & TA to Director(Engg.)



Phone : 080-41902800 (30 Lines)
080-23389776/785, 2331 5709
Fax : 080-2331 2487
E-mail : micronelec@dataone.in
micronelectricals@airtelbroadband.in
Website : www.micronelectricals.com

3RD FLOOR 'SOUNDARYA PARAMOUNT'
No. 83, 5TH CROSS, MALLESWARAM CIRCLE
BANGALORE - 560 003
TIN : 2 9770084027 Licence No. 20 (Class 1)


REF. NO.: ME:2881:2006 DATE: 02/09/2006

M/s. KEI INDUSTRIES LIMITED,
101/102, Vastu Enclave
Andheri Pump House, Andheri (East)
MUMBAI - 400 093

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the orders have been executed satisfactorily for the supply of 110 Mtrs. 3C x 240Sqmm 33kV (E) HT XLPE cable for our project of Laxmi Cybercity, Hyderabad and 1030 Mtrs. 3C x 400 Sqmm 11KV (E) HT XLPE Cable for Bagmane Tech Park, Bangalore project, vide your Invoice No. 821 dt. 30/06/2006 and Invoice No.900 dt. 10/07/2006.

For MICRON ELECTRICALS
S.K. SEETHARAMU
MANAGING PARTNER




Date : 20.08.06

Subject: Approval of HT Cables upto 11 KV voltage level.

We have gone through the credentials alongwith (PR) test certificates subscribed to us for HT Cables and hence approved your KEI make HT Cables upto 11 KV voltage level for both E & UE types in our ongoing project at Muri site. This is just for your information.

Regards,
DEवेश JHA
Manager-Project & Electrical



Project Site: Balesar Nagar, KORBA - 498 034, Chhattisgarh State
Tel: 07739-247191, 07739-247192, 0773912461, 0773912462, 0773912463, 0773912464, 0773912465, 0773912466, 0773912467, 0773912468, 0773912469, 0773912470, 0773912471, 0773912472, 0773912473, 0773912474, 0773912475, 0773912476, 0773912477, 0773912478, 0773912479, 0773912480, 0773912481, 0773912482, 0773912483, 0773912484, 0773912485, 0773912486, 0773912487, 0773912488, 0773912489, 0773912490, 0773912491, 0773912492, 0773912493, 0773912494, 0773912495, 0773912496, 0773912497, 0773912498, 0773912499, 0773912500, 0773912501, 0773912502, 0773912503, 0773912504, 0773912505, 0773912506, 0773912507, 0773912508, 0773912509, 0773912510, 0773912511, 0773912512, 0773912513, 0773912514, 0773912515, 0773912516, 0773912517, 0773912518, 0773912519, 0773912520, 0773912521, 0773912522, 0773912523, 0773912524, 0773912525, 0773912526, 0773912527, 0773912528, 0773912529, 0773912530, 0773912531, 0773912532, 0773912533, 0773912534, 0773912535, 0773912536, 0773912537, 0773912538, 0773912539, 0773912540, 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ENGINEERS INDIA LIMITED
(A Govt. of India Undertaking)

Regd. Office : Engineers India Bhawan, 1, Bhikaiji Cama Place, New Delhi-110068

Procurement Development Department

Ref: 4994PCD/REG/02 07 January, 2014

M/s KEI Industries Ltd.
D-90, Okhla Ind. Area, Phase - I
New Delhi - 110 020

Subject: Revalidation of Enlistment with EI.

Dear Sir,

We refer to your application on subject matter and are pleased to inform that your enlistment with EI, has been revalidated for the terms as described below.

Item Description	Material / Range
Cables - High Voltage - XLPE	Voltage grade: Up to 230KV(EI)
MV Power Cables - Fire Survival	-
Cables - Medium Voltage - Power - PVC	-
Cables - Control - PVC	-
Cables - Fire Alarm & Communication	-
Control Cables - Fire Survival	-
Thermo Couple Extension Cables	-
Signal Cables	-
Signal Cables - Fire Resistant	-

This enlistment is valid for your works located at:
1) SP 919-020, 022, RICO Industrial Area, Phase III, Bhawani, Dist. Ahar - 201 019
2) A280-284 RICO Industrial Area, Chhapra, Bhaerai Dist. Ahar - 201 019.

Please note that this enlistment is subject to satisfactory execution of orders in delivery and quality of above mentioned items when ordered for our various projects.

Further, it may be noted that any change in the product range, location of Works/Sales Office, Management/Organisation structure etc. shall be intimated to us immediately along with relevant document for our necessary action. In case, information to any of the above referred changes is not intimated timely, our enquiries may not reach you.

Enlistment with EI, shall not guarantee any regular flow of enquiries.

In the event of direct / indirect orders for EI, associated projects, materials will be supplied strictly as per the material / range / works as stated above including agreed responsibility matrix, if applicable, failing which your enlistment with EI, is liable to be cancelled.

The validity of this ENLISTMENT is upto 31st January, 2017.

You are advised to apply for revalidation 'on-line', 6 months before expiry of the enlistment. Detailed procedure for revalidation can be seen on our website www.ei2008enlist.com.

Thanking you,
Very truly yours,
(Signature)
Dy. General Manager
Procurement Development Department

संपन्नता से अर्थ, शक्ति और
DELIVERING EXCELLENCE THROUGH PEOPLE

मेटलर्जिकल एंड इंजिनियरिंग कन्सल्टेंट्स (इंडिया) लिमिटेड
भारत सरकार का संगठन

METALLURGICAL & ENGINEERING CONSULTANTS (INDIA) LTD.
A Government of India Enterprise

Ref.11.51.9181.47/V-1041/FA7481 Dated : 27.02.1995

M/s. KEI Industries Ltd.,
D-90, Okhla Industrial Area,
Phase-1,
New Delhi-110 020.

Sub : Vendor Enlistment.

Ref : Our letter No.11.51.9181.47/V-1041 dt.03.02.95

Dear Sirs,

We have examined the information sent by your regarding your products and your company has been enlisted in our Approved Vendor list for the following, including the products enlisted and informed vide our above referred letter.

- Cable - Instrumental / Screen / Signal Cables
- Cable - IT Power & Control Cables
- Cable - Telephone Cables

We will contact you as and when the requirement for your products / services arises. In the meantime kindly keep us informed of new developments in your organisation.

Thanking you for your kind co-operation.

Yours faithfully,
for Metallurgical & Engineering Consultants (India) Limited
(Signature)
(J. S. Sambhir)
Chief Contracts Manager
CVDC

Ranchi - 834 002, Bihar, India, Phone : 0651-5010025/1216
Fax : 0910-651-5022189. Telex : 0625-209262/296 MECON IN Gram : MECON

भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड
भारत सरकार का संगठन

BHARAT PETROLEUM CORPORATION LTD.
A Govt. of India Enterprise

P & CS: 120521 21 January 2015

M/s. KEI Industries Ltd
Nirvan Corporate
7th Floor, Opp. Aghadi Naagar
Ajmalia Road
Anandhi Pump House
Andheri East
MUMBAI - 400 093

Dear Sir,

Sub: Renewal of Registration

We refer to the documents submitted by you for renewal of your vendor registration with us in response to our letter on the above subject.

Upon scrutiny of your documents, we are pleased to advise you that we have renewed your Vendor Registration with us as per the following details.

CATEGORY	
SUPPLY OF HT/LT CABLES / CONTROL CABLE (PVC / XLPE/ INSULATED) / INSTRUMENTATION / THERMOCOUPLE EXTENSION / INSTRUMENTATION ITEMS	

Please note that there will be no change in your existing Vendor code (i.e. 120521), which must be referred to in all future correspondence.

Further it may be noted that:

- Registration does not necessarily bind us for sending Enquiries/Placement of Orders on you which is at the sole discretion of BPCL.
- Continuation of registration is subject to satisfactory execution of our Orders by you with respect to Delivery, Quality of the job and other terms and conditions.
- Any change in company constitution, Management / Organisation structure/set up, location of the works, etc shall be immediately intimated to BPCL.
- In case you do not respond to our "Request For Quotation" for three consecutive times, your registration is liable for cancellation.

Please sign and return the duplicate copy of this letter by the authorized signatory/ies as acknowledgement of this letter and your acceptance for our record.

Yours faithfully,
for BHARAT PETROLEUM CORPORATION LIMITED
(Signature)
SUNIL ADVANI
SR. MANAGER (P & CS)

मंगलूर रिफाइनरी एंड पेट्रोकेमिकल्स लिमिटेड
MANGALORE REFINERY AND PETROCHEMICALS LIMITED

Date : 12.03.2014

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s KEI Industries Limited have supplied the above quantity of cables by September 2010 and nearly 80% of the above supplied quantity of cables have been laid & commissioned and are working satisfactorily since December 2011 to till date progressively.

Item No.	Item Description	UOM	Quantity
1	HV POWER CABLE, 33KV(EI), 1C, 385 SQ.MM, CU CONDUCTOR, XLPE INSULATED, FLAT STRIP ARMOURED, PVC OUTER SHEATH, FR TYPE	METERS	55000
2	HV POWER CABLE, 33KV(EI), 1C, 300 SQ.MM, CU CONDUCTOR, XLPE INSULATED, FLAT STRIP ARMOURED, PVC OUTER SHEATH, FR TYPE	METERS	32500
3	HV POWER CABLE, 33KV(EI), 1C, 800 SQ.MM, CU CONDUCTOR, XLPE INSULATED, FLAT STRIP ARMOURED, PVC OUTER SHEATH, FR TYPE	METERS	6000
TOTAL QUANTITY		METERS	94500

This certificate is based on specific request by M/s KEI Industries Limited for participating in an International Contract for Cables.

For Mangalore Refinery and Petrochemicals Limited
(Signature)
B. Srinivasan
General Manager (Project Phase-III)

हिन्दुस्तान पेट्रोलियम कॉर्पोरेशन लिमिटेड
HINDUSTAN PETROLEUM CORPORATION LIMITED

Ref: PUR/AS 24-Nov-99

Regn.No: 0035S0225

M/s. KEI Industries Ltd.
21-A, Gopal Mansion, Guru
Nanak Rd., Bandra (w.),
Mumbai - 400 050.

Sub: Empanelment of Vendors

Dear Sir,

Reference your application against our Public Notice for empanelment of Vendors which appeared in various leading newspapers.

We are pleased to advise you that your name has been registered/updated for the following jobs/supply items :-

Nature of Jobs/ Supply Item : 19 Cables
Financial limit : Upto 100 Lakhs
Area of Operation : A

Please note that this registration does not confer any particular right on you and HPCL is not obliged to contact you for any or all of the requirement for the items for which you have been registered. Also this empanelment is subject to satisfactory execution of orders in delivery and quality of above mentioned jobs/supply items when ordered for our various projects. Your performance shall be periodically reviewed by us for continuation of your enlistment with HPCL.

Any change in your product range, location of Works/Sales Office, Management / Organisation Structure etc.should be intimated to us immediately quoting the above mentioned Registration No for our necessary action.

Thanking you,
Very truly yours,
(Signature)
ASHOK SINGH
Manager Purchase & Vendor Mgmt

PUNJAB STATE ELECTRICITY BOARD
OFFICE OF THE CHIEF ENGINEER/RE&APDRP
F-2, SHAKTI VIHAR, PATIALA.

From: Chief Engineer/RE & APDRP
F-2, Shakti Vihar, PSEB, Patiala

To: M/S KEI Industries Limited
D-90, Industrial Okhla, Industrial Area,
Phase -1, New Delhi

Memo No. 4180 /RCZ-404/Vol-V Dated: 25/7/99

Subject: Works Appraisal of M/S KEI Industries Limited, New Delhi for the supply of HT& LT cables.

The works appraisal of your firm has been carried out by Er. A.K.Verma, Dy. C.E./MS, PSEB, Patiala. Your firm has been recommended for the supply of HT& LT cables for PSEB works under HVDS schemes subject to acceptance of type test certificates.

Dy. CE/RFP,
for CE/RE & APDRP,
PSEB, Patiala.

- Dy. CE/MS, PSEB, Patiala.
- Sr.XEN/APDRP Amritsar, Jalandhar, Ludhiana, Patiala and Bathinda.

फर्टिलिजर्स एंड केमिकल्स ट्रावन्कोर लिमिटेड
THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED

Udyogamandal, 27th October 99

TO WHOM SO EVER IT MAY CONCERN

This is to certify that M/s KEI INDUSTRIES LIMITED, New Delhi have supplied for our 900 TPD Ammonia Project, following Instrument Signal and Power cables for a total value of Rs.1.24 Crores against our Purchase Order No.3020 / 14-021 / 287 / 7177 dated 14-10-1995.

- Signal Cables (max. size 12 Triad X 20 AWG individual and overall shielded cables) : 88.40 Kms.
- Thermocouple Extension Cables (max. size 12 Pair X 20 AWG - KX and RX type) : 24.10 Kms.
- Power Cables (max. size 3 core X 150 sqmm) : 11.40 Kms.
- Heat Resistant 2 core X 16 AWG Special Cable : 0.20 Kms.

The 900 TPD Ammonia Project has been commissioned in March 1998 and the cables supplied by the above party have been performing satisfactorily till date.

For THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED, UDL - DIVISION.
(Signature)
S. JAYARAMAN,
CHIEF ENGINEER,
ELECTRICAL & INSTRUMENTATION,
FACT - UDYOGAMANDAL DIVISION.

TATA CHEMICALS LIMITED
MITHAPUR, OKHAMNANDAL, GUJARAT STATE

GRAM : TATAKEM-MITHAPUR
PHONE : 0289902-2207/2225
FAX : 0289902-2227

Date:02.05.95

OUR REF. : _____

TO WHOM IF MAY CONCERN

This is to certify that M/s KEI Industries Ltd., New Delhi have supplied various types of control, signal and thermocouple compensating cables for various projects (cement plant, power plant & caustic soda) for Tata Chemicals Ltd. at Mithapur and fertilizer division at Babrala, U.P. through consultant M/s. Sham-progetti, spa & PDL for ammonia and urea plant. M/s. KEI have supplied following cables and the plants have been successfully completed.

- Control cables, 175 kms.
- Signal Cables, 95 kms.
- Thermocouple compensating cables, 25 kms.

The performance and quality of cables supplied is found to be good. Further we would like to add that M/s. KEI are regular supplier of control / signal cables to Tata Chemicals for various ongoing projects and the supply is affected in stipulated period.

(N. K. Adya)
Corporate Manager, Instrumentation

Save Energy for Benefit of Self and Nation

UGVCL

Uttar Gujarat Vij Company Ltd.

CIN - U40503GJ2003GCO42906

No.UGVCL/SP/11/HT AB Cable/KEI/ 3 3 6 B Date: 16-8-13

TO WHOM SO EVER IT MAY CONCERN

SUPPLY CERTIFICATE

This is to certify that M/s KEI Industries Ltd., Vadodra, have supplied the following size of HT Aerial Bunched Cable from their works at Bhiwadi, Rajasthan, against the Purchase Orders placed by this office.

Sl. No.	Purchase Order No. & Date	Item	Order Quantity (Kms.)	Supplied Quantity (Kms.)	Year of Supply
1.	UGVCL/SP/11/28/HT ABC/33 Date: 04/01/2011	3C0/0mm ² -70mm ² XLPE Insulated HT Aerial Bunched Cable.	4	4	2011-12
2.	UGVCL/SP/10-11/11/28/HT ABC/KEI/Report/825 Date: 21/03/2011	3C0/0mm ² -70mm ² XLPE Insulated HT Aerial Bunched Cable.	1	1	2011-12
3.	UGVCL/SP/10-11/11/28/HT ABC/KEI/8482 Date: 13/12/2011	3C0/0mm ² -70mm ² XLPE Insulated HT Aerial Bunched Cable.	17	17	2011-12
4.	UGVCL/SP/458/1/KEI/1214 Date : 9.4.13	3C0/0mm ² -70mm ² XLPE Insulated HT Aerial Bunched Cable. 3C0/0mm ² -100mm ² XLPE Insulated HT Aerial Bunched Cable.	23	23	2013-14
5.	UGVCL/SP/981/1/18K/HT AB Cable/14-15/KEI/5039 Date: 15.12.14.	3C0/0mm ² -70mm ² XLPE Insulated HT Aerial Bunched Cable. 3C0/10mm ² -100mm ² XLPE Insulated HT Aerial Bunched Cable.	12	12	2014-15

This certificate is given to M/s KEI Industries Ltd as requested by them vide letter Dtd- 11.8.2015.

Yours faithfully,
For it on behalf of UGVCL, Mehsana
(S.R. Patel)
Chief Engineer (P&P)

To,
M/s. KEI Industries Ltd., 803, Siddharth Complex,
Nr., Hotel Express, RC Dutt Road, Vadodra- 390 007

Regd. & Corporate Office - Vignagar Road - Mehsana - 384 001 (North Gujarat)
Phone No: 02762-22280-81 Fax No: 02762-223574/226256

L&T Construction
Buildings & Factories

07th June, 2014

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s KEI Industries Limited is our preferred vendor for supply of HT, LT (Control & Power) and Fire Survival Cables along with Wires for Mumbai International Airport Limited - Terminal 2.

We have always found M/s KEI Industries Limited maintaining high quality standards, timely deliveries, competitive prices and resourceful in meeting all our requirements.

We have extensively used their various types of cables & wires at Mumbai International Airport Project (MIAP) and have found the performance satisfactory.

Total PO value till date is INR 26,46,10,554.00 for supply of Cables & ZHRF Wires to MIAP.

For Larsen & Toubro Limited,
Authorized Signatory

Larsen & Toubro Limited, Construction, Buildings & Factories
Head Office: 6th Floor, International Airport Project (MIAP), P. O. Box 8710, Chennai - 600 075, INDIA
Tel: +91-44-2274 8000, 2274 8001 Fax: +91-44-2274 1200, 2274 1201
E-mail: larsen@larsen.com
Site Office: International Airport Project (MIAP), Site, Bhiwadi Sector, Jaipur, Rajasthan
Sector: Airport, Bhiwadi Sector, Jaipur, Rajasthan - 302 002, India. Tel: +91-22-2607 0342, Fax: +91-22-2607 0300

Registered Office:
L&T House, V. M. Nagar,
Bandra East,
Mumbai - 400 051, INDIA

DELHI OFFICE: UNITED COMMERCIAL BANK BLDG., 1ST FLOOR, PARLIAMENT STREET, NEW DELHI-110 001.
TEL.: (91-22) 371 1952

TOYO ENGINEERING INDIA LIMITED
TOYO HOUSE, LAL BAHADUR SHASTRI MARG, KANJURMARG (WEST),
MUMBAI - 400 078. ● TEL.: (91-22) 579 9001 ● FAX: (91-22) 579 9001 / 62
INTERNET SITE: www.tei.com

July 04, 2001

TO WHOMSOEVER IT MAY CONCERN

This to certify that, M/s KEI Industries Limited having its office at D-90, Okhla Industrial Area, Phase-I, New Delhi has supplied us 148.600 K.M. of Halogen Free FRLS Instrument Signal, Thermocouple Extension, Control & Grounding Cables, valuing Rs. 140.81 Lacs for our IPL LPG Import/Export Facility Project at Haldia under inspection from M/s PDIL. The details of the order is as follows :

A) Instrument Signal Cables
Max. Size : 12 Triad x 1.5 Sq. mm

B) Thermocouple Extension Cables
Max. Size : 12 Pair x 20 AWG (KX)

C) Instrument Control Cables
Max. Size : 3 Core x 25 Sq. mm.

Deliveries of the cables are as per the Project Schedule and so far performance of the same is found satisfactory.

For TOYO ENGINEERING INDIA LTD.,
B. N. CHAVAN
PROJECT MANAGER

DELHI OFFICE: UNITED COMMERCIAL BANK BLDG., 1ST FLOOR, PARLIAMENT STREET, NEW DELHI-110 001.
TEL.: (91-22) 371 1952

GUJARAT STATE FERTILIZERS & CHEMICALS LIMITED

Registered Office : P.O. Fertilizer Nagar - 391 750, Dist. Vadodra, Gujarat, India.

Phone : 372051, 372451
372651, 372751
372841
Fax : 0265-372966, 370119
05-01-2001

TO WHOMSOEVER IT MAY CONCERN

THIS IS TO CERTIFY THAT **M/S KEI INDUSTRIES LIMITED**, D-90, OKHLA INDUSTRIAL AREA, PHASE-I NEW DELHI HAS SUPPLIED US ABOUT **200 KM** OF FRLS BRAIDED CONTROL, INSTRUMENT SIGNAL AND COMPENSATING CABLES FOR OUR 1350 MTPD AMMONIA EXPANSION PROJECT, AT THE COST OF RS. 242 LACS VIDE OUR MAIN PURCHASE ORDER NO. GSPC9413/AEP736(I)/177 DT. 21.03.1996 AND AMENDED THEREAFTER.

THE CABLES WERE DESIGNED, MANUFACTURED AND TESTED AS PER **LINDETICB** SPECIFICATIONS SO FAR THE PERFORMANCE OF THE CABLES IS FOUND TO BE SATISFACTORY.

FOR **GSPC LTD.**
H.V.KACHHADIA
SR. MANAGER (Inst)

ISO 9002 CERTIFIED

SUZLON ENERGY LTD.

5th Floor, Godrej Millennium
8, Karpagam Park Road, Pune - 411 001, India

10/03/2005

TO WHOM SO EVER IT MAY CONCERN

THIS IS TO CERTIFY THAT M/S KEI INDUSTRIES LIMITED, HAVING ITS REGISTERED/HEAD OFFICE AT D-90,OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI- 110 020 HAS MANUFACTURED AND SUPPLIED 1.1 KV GRADE ANNEALED TINNED COPPER CONDUCTOR, FLEXIBLE, MELINEX TAPPED EPR INSULATED, PCP SHEATHED (AS PER IS-9968 PART 1) RUBBER CABLES AGAINST OUR FOLLOWING PURCHASE ORDERS.

P.O.NO.	CABLE SIZE	TOTAL QTY	P.O VALUE (Rs)
SEL/DMN/1250/000808/04-05	1Cx240 SQ.MM	76626	830,48,134/-
SEL/DMN/1250/000809/04-05	1Cx120 SQ.MM	25542	
	1Cx 50 SQ.MM	12040	
	1Cx 185SQ.MM	18060	
	1Cx 10 SQ.MM	8084	
	1Cx 10 SQ.MM	8084	
	1Cx 1.5 SQ.MM	17028	
	1Cx 300 SQ.MM	3010	
SEL/DMN/1250/000538/04-05	1Cx240 SQ.MM	48828	515,29,616/-
SEL/PWT/1250/000223/04-05	1Cx120 SQ.MM	16225	
	1Cx 50 SQ.MM	8290	
	1Cx185 SQ.MM	11150	
	1Cx10 SQ.MM	5500	
	1Cx10 SQ.MM	5500	
	1Cx1.5 SQ.MM	16875	
	1Cx 300SQ.MM	875	

THE SUPPLIES HAVE BEEN MADE TO OUR DAMAN & PONDICHERRY UNITS AND THE PERFORMANCE OF THE CABLES HAVE SO FAR BEEN SATISFACTORY.

FOR SUZLON ENERGY
AUTHORISED SIGNATORY

M.S.E.B., C.P.A. MUMBAI

MAHARASHTRA STATE ELECTRICITY BOARD

Telephone: 642 2211
642 2131
Telex : 011 - 78293 MSEB
011 - 78294 MSEB IN
FAX : 91 22 644 3749
91 22 648 1329
Gram : COSGRID

Central Purchase Agency,
Prakashgad, 1st floor,
Station Road G-9, Bandra
MUMBAI - 400 051.

SP/MISC/XI/10
To **13436-1** 13 NOV 1987

M/s. KEI Industries Limited,
21-4, Gopal Mansion, Surunank Road,
BANDRA (West), MUMBAI-400 050.

Sub :- Request for issue of certificate of supplies.
Ref :- Your letter No. KEI/97/BDM dtd. 18-11-97.

Dear Sirs,

With reference to the letter, regarding performance certificate for supply of cable against the order as indicated below :

Order No. & Date	Description	Ordered & supplied quantity
SP/T-1012/1HRD/10326	i) L.T.PVC Cable 3.5C x 380 sq.mm	27 KM
dtd. 29-7-95.	ii) L.T.PVC Cable 3.5C x 185 mm2	58 KM

According to the above said order is executed from 27-11-95 to 6-1-96 with value of Rs. 2,48,58,841/-. We have not received any adverse report so far. Hence performance of cable can be considered satisfactory.

Yours faithfully,
Executive Engineer (St.XI)
For Technical Director (St.)

LARSEN & TOUBRO LIMITED
ENGINEERS

137, TILAK NAGAR, NEW DELHI-110017

TELEPHONE : 261 1401, 261 1411
TELEX : 11 1052, 11 7104,
11 7150
TELEFAX : 022-8541299, 1018

REPLY TO
Ramesh Wadia
6083 VIKAS ROAD
P.O. BOX 8901
MUMBAI 400 072
9th Nov, 2000

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s. KEI INDUSTRIES LTD, D-90, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI- 110020 has supplied us COPPER FRLS POWER, CONTROL & INSTRUMENTATION CABLES for our 116MW IPL, HALDIA COMBINED CYCLE POWER PLANT at a value of Rs. 33. 85 millions. The details arc as follows.

P.O.NO.	MAX. SIZE	QTY.- KM.
COPPER FRLS POWER CABLES		
PGTX/585558/NKK/DSC DT.26.11.97	3.5C x 300 SQ.MM	
PGTX/585032/NKK/DSC DT.28.08.97	1C x 400 SQ. MM	
PGTX/585046/NKK/DSC DT.07.12.98	1C x 300 SQ.MM	66. 047
COPPER FRLS CONTROL CABLES		
PGTX/585561/JF/DSC DT.08.12.97	37C x 1. 5 SQ.MM	
PGTX/585016/JF/DSC DT.24.05.98	24C x 1. 5 SQ.MM	76. 149
COPPER FRLS SIGNAL CABLES		
PGTX/595001/JF/DSC DT.16.04.98	12T x 1. 5 SQ.MM	
PGTX/595033/JF/DSC DT.31.08.98	12P x 16AWG (KX)	109. 001

The supplies were completed on time and the performances of the cables have so far been satisfactory.

The power plant was commissioned in open cycle mode in Jan, 2000 and fully operational in combined cycle from May, 2000.

FOR LARSEN & TOUBRO LTD.
P.K.SHAH, MANAGER, GTFB, ENGG.

PUNJ LLOYD LTD.

REGISTERED & CORPORATE OFFICE
PUNJ LLOYD HOUSE
17-B, NEHRU PLACE
NEW DELHI - 110 019
INDIA

TEL 4300 131
FAX 011 4300 111
E-mail : info@punjlloyd.com

Date: 17th October, 2000

TO WHOM SO EVER IT MAY CONCERN

This is to certify that KEI Industries Ltd., has supplied 87 Kms of Signal & Control and Thermocouple Extension Cables as per EIL Specification from their works at New Delhi & Bhiwadi vide our P.O. No. PROC/EIND07/140411 dated 31/08/1998 for our SRU Project at IOCL Mathura Refinery, which was commissioned in the month of December 1999. The Performance of Cables is satisfactory and there is no adverse report against the cables so far.

This letter have been issued on specific request of the vendor.

For PUNJ LLOYD LTD.
ABHIJIT GUHA
Sr. Manager-Materials

LARSEN & TOUBRO LIMITED
 ENGINEERS
 Regional Office
 L&T House, Bafra Road, Bombay-40001

TELEPHONE: 022-4840320/6
 TELEFAX: 022-479242/49

REPLY TO: GTFB Division
 L&T EPC Const.,
 NH-9, Chabai, Bafra - 51740

REPLY PLEASE QUOTE: GTFB (V)PROC/REG/00999
 18/05/99

To,
 M/s. KEI Industries Ltd.,
 D-90, Okhla Industrial Area, Phase-I,
 NEW DELHI - 110 020
 Phone nos.: 011-6818840, 9818642
 Fax No.: 011-6818559, 6817225

Kind Attn: Mr. S.K. CHADHA
 Manager/Marketing

Dear Sir,
 Sub: Registration as an approved Vendor

Ref: 1) Your letter No. KEI/REG/NO/01 dated 28th July, 1998
 2) Your letter No. KEI/433/99/L&T dated 13th May, 1999

With reference to the above, we are pleased to inform you that you are enlisted as one of approved Vendors with our GTFB Business Division, Vadodra of L&T Gr-II Projects for the following products:

- PVC/XLPE POWER CABLES - UP TO 3.3 KV, 1000 SQ.MM (SINGLE CORE), 620 SQ.MM (MULTI CORE)
- PVC CONTROL CABLES - UP TO 1.1 KV, 0.5, 1.5 & 2.5 SQ.MM UP TO 61 CORE.
- INSTRUMENTATION CABLES - 1.1 KV, 0.5, 0.1, 5.2, 5 SQ.MM
- PVC/PETHERMOCOUPLE EXTENSION/COMPENSATION CABLES - 1.1 KV, 16AWG, 20AWG

Your application serial number is 009 and you are required to intaxion the same in your future correspondence. Your intaxion is valid up to 12-12-1999. We will consider for revokation based on revokation of your ISO 9002 Certification due by 12.12.1999.

The registration shall not bind Larsen & Toubro Ltd. to give you any priority or preference in the issue of enquiries and placement of purchase order and does not guarantee that all or any of the enquiries for the above items would necessarily be sent to you. We also retain the right to review and cancel your registration at any time without assigning any reason, whatsoever, and without any liability on our part.

You are also required to intimate to us changes, if any, in postal address, contact phone numbers, fax numbers, in the continuation or working of your firm during the currency of registration of your firm with us. Copies of annual reports, financial statements, ITCC should be forwarded to us each year.

Thanking you,

Yours faithfully,
 For LARSEN & TOUBRO LIMITED,
 Y.S. PRASAD
 SENIOR MANAGER (PROCUREMENT)
 GTFB

ERCOM Consulting Engineers Pvt. Ltd
 ERCOM HOUSE, C-1, C-Block, Community Centre, Naraina Vihar, New Delhi-110028 INDIA
 (AN ISO-9001 COMPANY)

Ref: ERCOM/DL/ SUP/EC- 7490
 Date: May 26, 2001

M/s. KEI Industries Ltd.
 D-90, Okhla Industrial Area,
 Phase-I,
 New Delhi-110 020.

Kind Attn: Mr. Sanjay Mehra, Asstt. Manager (Marketing)

Dear Sirs,
Subject: Vendor Enlistment with ERCOM

Ref: Your Letter No. KEI/433H/01, dated 06-02-2001.

We have gone through the documents forwarded to us vide your above letter and are pleased to inform you that your company has been enlisted in our approved vendor list for the following items:-

Sr.	Code	Item/Service description
1.	EE/042	1.1 KV grade power cables
2.	EE/043	1.1 KV grade control cables
3.	EE/044	Instrument cables

The validity of this enlistment is up to three years.

Regards,
 Yours faithfully,
 for ERCOM Consulting Engineers Pvt. Ltd.
 (A.K. TIKU)
 General Manager (Elect.)

Designers of Plants and Machinery for Petrochemicals and Man-Made Fibres

CHEMTEX ENGINEERING OF INDIA LTD.

Registered Office:
 CHEMTEX HOUSE, HIRANANDANI GARDENS, MAIN STREET 7, POWAI, MUMBAI-400 076.

Our Ref: VL / 97 / ZOK002
 Date: 25-Nov-97

To: KEI INDUSTRIES LTD
 D-90, PHASE-I,
 OKHLA INDL. AREA,
 NEW DELHI - 110020

Sub: ENLISTMENT AS AN APPROVED VENDOR

Gentlemen:

We thank you for the keen interest evinced by you in getting enlisted with us as an approved vendor.

After having examined your application and reviewing the credentials, we are pleased to inform that you have been enlisted with CHEMTEX as an approved vendor, for the items described below:

SR.NO.	ITEM DESCRIPTION	MATERIAL / RANGE
1	POWER CABLES	
2	CONTROL CABLES	
3	INSTRUMENTATION CABLES	

Please note that this enlistment is subject to satisfactory execution of orders in delivery and quality of above mentioned items, if and when ordered on you for future projects handled by Chemtex.

You are advised to keep us informed of any change in the product range, location of works/sales office, management/organisation structure etc. Also ensure that relevant documents incorporating the changes are submitted to us as and when due.

Very truly yours,
 CHEMTEX ENGINEERING OF INDIA LTD.
 P. NAGARIK
 General Manager (Procurement)

MAHA TRANSCO
 (CIN NO. U40100MH2005GC153646)
 MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED
 OFFICE OF THE CHIEF ENGINEER (PROJECT & DESIGN)
 TRANSMISSION PROJECT DEPARTMENT
 56 FLOOR, PLOT NO. C-1, E-BLOCK,
 PRAKASHGANJ, BANDRA - KURLA COMPLEX,
 BANDRA (EAST), MUMBAI-400 081.

Ref No: MSETCL/CO/Pj.&Des./D&E-S3/DTF/Cable/ - 6986
 Date: 26 MAY 2015

To,
 SUYOG URJA PVT. LTD.,
 6, Fiji Bldg., Pacific Enclave,
 Near Hiranandani Hospital,
 Powai, Mumbai-400076.

Sub: Approval of Guaranteed Technical Particulars and Quality Assurance Plan in respect of KEI make LT PVC Insulated FRLS Type Control/Power Cables for Establishment of 132/33 kV substation Pishor for 50 MW Wind Power Project At-Anjanandi, Dist-Aurangabad.

Ref: 1) Your Letter No.: SUP/MLH/Anjanandi/GP_DRWG/CONTROL_CABLE/2904-001 Dtd-29.04.2015 received on 05.05.2015 to this office.
 2) Our Email on 12th May 2015.

Dear Sirs,
 We refer to your above mentioned letter under reference (1); vide which you have submitted the documents in respect of KEI make LT PVC Insulated FRLS Type Control/Power Cables. The Guaranteed Technical Particulars (GTPs) have been scrutinized in terms of our specifications/relevant standards and found to be generally in order and hence approved. You have not submitted Type Test Reports & Quality Assurance Plan. Hence you are requested to supply the same as per attached Quality Assurance Plan herewith. The details of approved Guaranteed Technical Particulars (GTPs) are furnished in Annexure-A.

One set of above approved Guaranteed Technical Particulars (GTPs) with corrections indicated by us in red ink is enclosed. It is requested to incorporate the changes and supply the Cables accordingly. You are requested to furnish copies of approved GTPs to our concern field offices.

The Quality Assurance Plan (QAP) approval accorded by us vide our Letter No. MSETCL/CO/PJ.&DES./D&E-S3/TKC/T-1225/S&W/2709 dtd-24.02.2015 for LT PVC/XLPE Insulated FRLS Type Cables (KEI make) has been verified. The same is found to be generally in order & hence applicable for this project also.

It is requested to submit the valid Type Test Reports for the same before commencement of supply. **Otherwise dispatch instructions will not be issued.**

E:\D&E ST/PROVAL/SUYOG/ANJANANDI/Cable.docx Page 1 of 3

BHARAT HEAVY ELECTRICALS LIMITED
 (A Govt. of India Undertaking)

Project Engineering Management

Ref: Date: 09.07.2012

To:
 M/s KEI INDUSTRIES LTD,
 D-90, OKHLA INDUSTRIAL AREA, PHASE-I,
 NEW DELHI 110020

Kind Attn: Mr. Gaurav Shanker Mathur (Asst. Manager-Marketing)

With reference to your request received vide e-mail dated 28.06.2012 for re-issuance of registration certificate, it may please be noted that M/s KEI INDUSTRIES LTD. with their registered office at D-90, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI 110020 and works at SP-919/920 RIICO Industrial Area, Phase-III, Bhiwadi, Dist Alwar- 301019, Rajasthan and A-280/281/282/283/284 RIICO Industrial Area, Chopanki, Dist Alwar- 301019, Rajasthan is PEM registered vendor under Permanent Category having Vendor Code K027 for following packages:

- HT XLPE CABLES
- LT XLPE POWER CABLE
- LT PVC POWER CABLE
- LT PVC CONTROL CABLE
- SCREENED CONTROL CABLES
- LT XLPE CONTROL CABLE
- LT HRPVC POWER CABLES
- LT HRPVC CONTROL CABLES
- LT FIRE SURVIVAL CABLES
- BARE GROUND CONDUCTOR FOR BELOW GRD EARTHING
- BARE GROUND CONDUCTOR FOR ABOVE GRD EARTHING

The registered vendor has to comply vendor registration requirement as per BHEL policies and guidelines.

The above registration has the approval of the competent authority.

Thanking you,
 For & on behalf of BHEL

(Manisha Gupta)
 Sr. Engineer VD

09/07/2012

ISO 9001:2008
 ISO 14001:2004
 ISO 45001:2012

Phone: +91-22-4347700
 Fax: +91-22-4347000

ISO 9001:2008
 ISO 14001:2004
 ISO 45001:2012

To,
**M/s KEI Industries Ltd.,
 New Delhi**

K.A.: Sh. Munishwar Gaur

Dear Sirs,

With reference to the Supplier Registration Form submitted by you & visit to Chopanki works for supplier assessment, kindly note that M/s KEI Industries Ltd. with works at 'A-280/281/282/283/284, RIICO Industrial Area, Chopanki, Alwar - 301019' already registered with TSG/BHEL under the permanent Code 'XR016' have been approved for enhancement of rating upto 220 KV for EHV cable under the same permanent code.

Regards,
 Abhinav Gupta
 Sr. Engineer (TSG/SDC),
 Transmission Business Group,
 Bharat Heavy Electricals Limited,
 Tower A, 5TH Floor, Advant Navis IT Business Park,
 Plot No-7, Sector-142, Expressway Noida,
 Noida-201305,
 Distt:- Gautam Budh Nagar, U.P.
 Ph. No.: 0120-6748460, 9818492661

50
 Celebrating 50 Years of Engineering Excellence (1964-2014)

No virus found in this message.
 Checked by AVG - www.avg.com

Version: 2013.0.3480 / Virus Database: 3955/7645 - Release Date: 06/09/14
 Internal Virus Database is out of date.

ABB

Ref: PESM/LTSM/CBL
 Dated: 1997-05-03

M/s. KEI Industries Ltd.,
 D-90, Okhla Industrial Area,
 Phase - I,
 New Delhi - 110 020.

Kind Attn: Mr. Sanjay Mehra - Asst. Manager (Mktg.)

Sub: Enlistment of Supplier for manufacture & supply of Power & Control Cables for Power Projects

Ref: Letter No. KEI/433(D)/97/ABB dated 18th Feb. '97

Dear Sirs,

We thank you for the interest shown by you in associating with us for the implementation of the various Power Projects being set-up / proposed to be set-up by us. We sincerely appreciate the efforts put in by your people in explaining to us the functioning of the various departments / groups in your organisation with regard to above mentioned package.

We are enclosing herewith a write-up on Supplier Classification process which is being adopted for the various packages being sublet by us. As can be seen from the enclosed document, we have kept ISO accreditation as one of the criteria for qualification of the supplier in the category Level-II, i.e. "Qualified". In all our EPC contracts, ISO/ISO equivalent procedures is demanded by customers. It is just a matter of time that ISO accreditation will be considered as essential for EPC contractor as well as his suppliers. Hence, for you to be a "Qualified" supplier in such EPC projects, it is imperative for you to continue to have ISO accreditation.

While for the present, we have decided to issue tender enquiries to both "Approved" as well as "Qualified" suppliers, we may add that in future, we are targeting to restrict tender enquiries only to the qualified suppliers. Further, a "Qualified" supplier stands to gain advantage in a competitive situation, compared to an "Approved" supplier.

We have taken note of the information given by your organisation and wish to inform you that for the present, we have classified you as a "Qualified" Supplier for PVC LT Cables & Control Cables

As a "Qualified" Supplier, we expect you will continue to endeavour attaining a very high standard of operation in your organisation, so as to meet the TQSR threshold for levels III & IV, i.e. Preferred / Partner, as envisaged in our Supplier Classification Process. Accordingly, we would request you to keep us updated on any process related changes / additions being made in your organisation to enable us to do the reassessment / requalification as may become necessary.

Thanking you,
 Yours faithfully,
 for Asea Brown Boveri Ltd.,
 Suresh Krishna

PROJECTS & DEVELOPMENT INDIA LIMITED
 (A GOVT. OF INDIA UNDERTAKING)
 P.O. BHAWAN, A-14, SECTOR-1, NOKIA-201 301
 DISTT. GAUTAM BUDDH NAGAR, (U.P.) INDIA

PNM/REG/0042
 Date: 01.10.2009

M/s KEI INDUSTRIES LIMITED
 D-90, OKHLA INDL. AREA, PHASE-I
 NEW DELHI-110020

Subject: VENDOR REGISTRATION CERTIFICATE

Dear Sirs,
 We are pleased to inform you that you have been enlisted with PDI as an approved vendor for the items described below:

ITEM CODE	ITEM DESCRIPTION	MATERIAL / RANGE
311801	INSTRUMENT POWER & CONTROL CABLES	
311802	EXTENSION & COMPENSATING CABLES	
310501	HT POWER CABLE	Up to 33 KV
310502	LT POWER CABLE	
310503	CONTROL CABLE	

Please refer the above reference number in all your future correspondence related to above subject. Kindly note that this enlistment is subject to satisfactory execution of orders in delivery and quality of above mentioned items when ordered for our various projects.

Further, it may be noted that any change in the product range, location of Works / Sales office, Management Organisation structure etc. shall be intimated to us immediately along with relevant documents for our necessary action. In case, information for any of the above-referred changes is not intimated timely, the enlistment with us is liable to be cancelled. Your performance shall be reviewed for continuation of your enlistment with PDI.

This registration is valid till 30.09.2014. You shall contact us at least 180 days in advance for revalidation of your registration with us, failing which your name may be deleted from our vendors list.

Thanking You
 Yours faithfully,
 (R. Srinivas)
 Chief Engineer - (Materials)

Regd. Office - P.O. Bhawan, A-14, Sector-1, Noida-201301
 Phone: +91-120-2629624/3431/1 Fax: +91-120-2629651, 2641483
 E-mail: noida@pdi.co.in, pdi@pdi.co.in
 Other Office: Delhi, Bafra, Vadodra, Kolkata and Durgam
 Website: www.pdi.co.in

KEI WIRES & CABLES



Maharashtra State Electricity Distribution Co. Ltd.
 APDRP Section "Prakashgad" 5th Floor, Bandra (East)
 Mumbai - 400 051.
 Tel. : (0) 26474211
 Fax : (022) 26472868. E-Mail: ce_apdrp@yahoo.com
 Website : www.mahadiscom.in

o.CE/APDRP/30050

Date: 02-09-2006

Chief Engineer,

I.S.E.D.C.L., Amravati Zone, Akola/Aurangabad Zone, Aurangabad/
 oihapur Zone, Kolhapur/Nagpur Zone, Nagpur/Nagpur Urban Zone,
 agpur/ Nasik Zone, Nasik/Pune Zone, Pune/ Konkan Zone, Ratnagiri/
 eed Zone, Latur/Bhandup Urban Zone, Bhandup/Kalyan Zone, Kalyan.

**Sub: Inclusion of name M/s. KEI Industries Ltd.,
 Mumbai approved Vendor for supply of 11 kV,
 22 kV, 33 kV XLPE Cables.**

The Competent authority has approved to include the name
 M/s. KEI Industries Ltd., Mumbai in Vendor list of APDRP for supply of
 kV, 22 kV, 33 kV XLPE Cables.

Chief Engineer (APDRP)

Tele: 23018582 Dy Dte Gen of Works (Design)
 Engineer-in-Chief's Branch
 Army HQ, Kasimir House
 DHQ PO, New Delhi-110 011

11583/ISI/4/E2 Des-1

M/S KEI Industries Limited,
 3-90 Okhla Industrial Area, Phase-I,
 New Delhi-110 020

12 Nov 2003

**USE OF ISI MARKED "KEI" BRAND
 ELECTRICAL CABLES IN DEFENCE WORKS**

- Please refer your letter No. KEI/433K/03/MES/02 dated 06 Nov 03 and earlier correspondence on the subject.
- Your firm had applied for use of "KEI" brand following types electrical cables in defence works:-
 - (a) PVC insulated (Heavy Duty) Electric cables for working voltages up to and including 1100 V, insulation type A & G. Sheath type ST 1 & ST 2 armoured & unarmoured with copper & aluminium conductor including cables for low temperature applications excluding cables for use in mines, as per IS: 1554 (Part-1)-1988.
 - (b) PVC insulated cables, single/multicore, sheathed and unarmoured for working voltages up to and including 1100V, with copper & aluminium conductors including cables for outdoor and/or low temperature applications, as per IS: 694-1990.
 - (c) XLPE insulated PVC sheathed cable for working voltages up to and including 1100 V, with aluminium conductor armoured/unarmoured including cable for low temperature conditions cat D1 but excluding cables for use in mines, as per IS: 7098 (Pt-1)-1988.
 - (d) PVC insulated (HD) cables for working voltages up to 3.3 kV, with aluminium/copper conductors sheathed, armoured & unarmoured including cables for use in mines and excluding low temperature conditions, Insulation Type -A and Sheath Type ST-1, as per IS 1554 (Part-2)-1988.
- It is seen that all above-mentioned products are BIS approved & ISI marked and the firm is ISO 9001:2000 Certified Company. Hence these products can be incorporated in Defence Works, on merit.
- You may approach Zonal CEs / lower formations with your literature/price list accordingly.

वित्त (Finance)
 Director (Finance)
 Director of Insp
 Offg CDGW (Des)
 for E-in-C

Copy to:-
 Chief Engineer
 HQ Northern Comd
 HQ Western Comd
 HQ Central Comd
 HQ Eastern Comd
 HQ Southern Comd

All Chief Engineers Zone: For information and necessary action please.



मेकॉन लिमिटेड (भारत सरकार का संस्थान)
MECON LIMITED (A GOVERNMENT OF INDIA ENTERPRISE)

Ref No. 11.74.9183/CVDC/38X-18V-1041 Date: 13-OCT-14
KEI INDUSTRIES LTD
 33, Dr. Sardar Mohan Avenue (1st floor),
 Near Park Circus Laxmi Park
 KOLKATA, 700014
 Tel: 033 2389996/724/ 728 0983095/169

Sub: Vendor Registration with MECON (Vendor code: V-1841)
 Ref: Your letter No. KEI/M/MECON/5613-13 dated 07-JUL-13
 Dear Sir,

Kindly refer to your above mentioned letter. We are pleased to inform you that your company (BMS&S) work is enlisted in our Approved Vendor List for the following, which was revised on 06-FEB-17. This supersedes our earlier letter of even no dated 03/03/2014.

- ELECTRICAL INSTRUMENTATION TELECOM & SIGNALING EQUIPMENT DISTRIBUTION SHOP ELECTRICAL CABLES CABLES**
- CABLE - 3HV POWER CABLE (Up to 132 kV) - 4445 MTR/ANNUUM
 - CABLE - FLEXIBLE CABLE (As per IS 8989 Part 1 & 2) Cable 3.3 KV, 13 1445 MTR/ANNUUM
 - CABLE - HV POWER CABLE (Up to 132 kV)
 - CABLE - INSTRUMENTATION CABLES
 - CABLE - LT CONTROL CABLE
 - CABLE - LT POWER CABLE
 - CABLE - TELECOMMUNICATION CABLES (JELLY FILLED)
 - WIRES - DOMESTIC WIRES

SECTION CONTRACTORS - DISTRIBUTION

Please note that the enlistment is subject to satisfactory execution of orders in delivery and quality of above mentioned items when ordered for various projects.

Further if any change in technology, location of works/uses/offer, Management Organization structure etc, shall be intimated to us along with relevant document for our necessary action, failing which our enrolment may be revised/you may also your enrolment with us will be liable to be cancelled. Kindly keep sending your annual report every year. Your performance shall be periodically reviewed by us for continuation of your enrolment with MECON.

The above enlistment does not necessarily confer any order or contract, which is at the sole discretion of MECON/MECON/Client. It is your responsibility to apply for removal of your registration at least 2 months in advance of expiry of this validity period.

Thanking you,
 Yours faithfully,
 For MECON LIMITED
 (Anil) Darg, DGM (P/DC)
 Email: anil.darg@meconlimited.co.in
 Fax: 033-248 2189 Tel: 033-248 3394

- Regional Offices:
- 10 West, New Delhi
 +91-11-2394 1201 (Phone)
 +91-11-2394 1214 (Fax)
 delhi@meconlimited.co.in
 - 10, Mumbai
 +91-22-274 2700 (Phone)
 +91-22-274 2707 (Fax)
 mumbai@meconlimited.co.in
 - 10, Kolkata
 +91-33-2322 2261 (Phone)
 +91-33-2322 4487 (Fax)
 kolkata@meconlimited.co.in
 - 10, Chennai
 +91-44-232 9171 (Phone)
 +91-44-232 9174 (Fax)
 chennai@meconlimited.co.in
 - 10, Bangalore
 +91-80-232 9171 (Phone)
 +91-80-232 9174 (Fax)
 bangalore@meconlimited.co.in

Telephone: 25094481 Extn 44123

Controllorate of Procurement
 Material Organisation
 Ghatkopar West
 Mumbai 400 086

Date: 29 Aug 03

MOPRVN 0698/1009

M/s. KEI INDUSTRIES LTD
 VASTU Enclave, VASTU SHIP,
 101-102, Andheri Pump House,
 Andheri (E)
 MUMBAI - 400 093
 S/E,

VENDORS REGISTRATION

- Your request for registration with the Navy has been scrutinised and has been considered. It is however, observed that you are not registered with the Director, Directorate of Quality Assurance (Navy), West Block No.5, R.K.Puram Road, New Delhi 110 011.
- Registration with DGQA(Navy), Delhi is mandatory for supply of items to MO(MB). Therefore, you may kindly take up the matter with DGQA(Navy), New Delhi and obtain registration. In the meanwhile, if there is any Tender Enquiry, tenders will be sent to you as and when requirements arises.

Yours faithfully,

 C.B.D. Bhatnagar
 PMSO II
 A.C.P.R.O (V&B)
 I.C.P.R.O (MB)

COMPANY PROFILE



04th February 2008

TO WHOMSOEVER IT MAY CONCERN

THIS IS TO CERTIFY THAT M/s KEI INDUSTRIES LIMITED HAS SUPPLIED THE FOLLOWING CABLES FOR M/s FOXCONN PROJECT AGAINST OUR PO 40004389 DT. 03RD MAY 2007 & AMENDMENTS THEREOF.

- 11KV(E) GRADE COPPER CONDUCTOR AS PER IS:7098/P2/85 3C x 300 SQ.MM-1410 mtrs & 3C x 400 SQ.MM - 920 mtrs.
- 11KV GRADE XLPE INSULATED COPPER CONDUCTOR - 65KMS OF ASSORTED SIZES.

THE CABLE SUPPLIES HAVE BEEN SATISFACTORY AND SUPPLIED TO US AS PER CONTRACTUAL DELIVERY DATES.

BOTH THE HT & LT CABLES HAVE BEEN COMMISSIONED AND THE PERFORMANCE OF THE SAME ARE FOUND SATISFACTORY.

Yours truly,
 For ABB Limited

K Kannan
 Project Manager



ABB LIMITED
 BUILDING SYSTEMS
 CENTURY PLAZA
 1st Floor, 561-562, Mount Road,
 Chokkikulam, Chennai - 600 018.

GUJARAT INDUSTRIES POWER COMPANY LTD.

Slipp/Mat Fax & Courier 15 December 2009

To,
 M/S THE SINGHARENI COLLIERIES COMPANY LIMITED
 CORPORATE PURCHASE DEPARTMENT,
 P. O. KOTACJUMEM COLLIERIES-507101
 KHAMMAM DISTRICT (A.P.)

Dear Sir,
 REF YOUR LETTER CRP/PD/06/3580/T_NO_C060900174 DATED 30.11.2009

M/s KEI INDUSTRIES LIMITED is proven supplier for flexible trailing cable. They are supplying various cables to us.

Thanking you,
 Yours faithfully,
 For Gujarat Industries Power Company Limited
 (S. K. Saha)
 MANAGER (MATERIALS)

Registered Office & Vadodra Plant:
 79, Panchsheel, Dist. Vadodra 391 001 Gujarat - INDIA
 Phone + (91) 79 2211 2111/2112 Fax + 2212 2177
 E-mail : pcr@kei-gip.com

Surat Lignite Power Plant:
 Village : Kes Nandi, Tal. Mergol, Dist. Surat 391 118 Gujarat-INDIA
 Phone + (91) 79 2211 2111/2112 Fax + 2212 2177
 E-mail : pcr@kei-gip.com

POWER GRID CORPORATION OF INDIA LIMITED
 (A Government of India Enterprise)

Ref: CQA&VA/Instrumentation Cable Date: 28.04.2011

M/s. KEI Limited,
 D-90, Okhla Industrial Area,
 Phase-I, New Delhi-110028.

Kind Attention: Sri. K Sharma
 Subject: Approval of Supplying Instrumentation Cable for POWERGRID Projects.

This has reference to your submission of documents for the subject matter. Based on the review of documents submitted by you we are agreeable to your request for supplying Instrumentation Cables from your works situated at SP-919,920,922 RICO Industrial Area, Phase-III, Bhowad, Dist. Alwar, Rajasthan-301019. However, following have to be assured by you:

- Traceability should be maintained from raw material stage to the final stage.
- Raw Material procured should be from POWERGRID approved sources.

Please note that items sourced from them meets the requirement of POWERGRID technical specification, approved drawing/data sheet including type testing, if any. In case of any abnormality in this regard is observed, we reserve the right to withdraw this approval with immediate effect.

This however does not absolve you of liabilities as per contract.

Thanking you,
 Yours truly,

 Mahendra Saxena
 CMOQA & I

CC: CM (B - Gurgaon)

Corporate Office: 4-B, Sector 29, Gurgaon (Haryana) India - 122002. Phone: 012-2608000 Fax: 012-2608001
 Regional Office: 30A, Okhla Industrial Area, Okhla, New Delhi - 110028. Tel.: 011-2608000 Fax: 011-2608001



GOVERNMENT OF INDIA
 MINISTRY OF DEFENCE

**DIRECTORATE GENERAL OF QUALITY ASSURANCE
 DIRECTORATE OF QUALITY ASSURANCE (NAVAL)**

**CERTIFICATE OF RENEWAL OF REGISTRATION/
 REGISTRATION FOR ADDITIONAL ITEM**

Reference No: 85-20-29/DQA-P dated 07.06.2004
 Registration Certificate Serial No: DQA/VN/29/2004
 Valid upto: 07.06.2007
 The registration certificate mentioned above for manufacture supply of the following items to Defence works is hereby renewed for a further period of 3 years.

S. No.	Description	PAR. NO./S. No. of Para.	Specification
No items as per enclosure I attached.			
No of items for which registration is renewed: Three			
No of additional items for which vendor is now registered: One			
Mandatory Imp: P. 85-900/2004			
Registration No & validity of Vendor K-29/MS-P/04 Dated 10-12-2001			
This Certificate of renewal of registration is valid upto 06-12-2007.			

Yours truly,

 Anand Kumar
 Director

Date: 06.12.07 Directorate of Quality Assurance (Naval)

UTTAR HARYANA BILI VITRAN NIGAM LIMITED
(A Government of Haryana Undertaking)
Registered Office: C-16, Vidyal Sadan, Sector-6, Panchsika, Haryana
Office of COMPOSC, UHVVN, Panchsika
Email: ugvb@bvlv@gmail.com Ph No. 0172-2619135

To: **M/S KEI Industries Ltd**
D-90, Okhla Industrial Area, Phase-I,
New Delhi.

Memo No-CH-97 JG-21500-8 Dated: 07/07/2011

Subject: Extension of empanelment up to 31.03.2016 as approved vendor of the Nigam for supply of material against turnkey projects during 2015-16 - Paper I Distribution Transformers manufacturers / Cables / Other materials XLPE, PVC, TVC, 11kV/13.8kV & 33kV.

This has reference to your letter No. dated _____ dated _____ vide which you have submitted the required document / affidavit regarding No blacklisting & No Litigation status your firm.

The empanelment of your firm up to 31.03.2016 shall be valid subject to compliance of the following conditions:-

- The material supplied should be in line with the approved GTP's / technical specification of the Nigam and any default on this account may lead to your De-empanelment.
- The supplied material if rejected twice by inspecting officer of the Nigam on account of poor quality / sub standard material, would lead to De-empanelment of the firm with immediate effect and without any notice.
- The inspecting officer should be provided with all T&P, measuring instruments / testing equipment to undertake quality check of the material. You are further requested to ensure that T&P / testing equipment offered should be certified for its calibration.

This is for your information please.

Chief General Manager/POSC
UHVVN, Panchsika

CC:-

- SPE to Director Projects, UHVVN, Panchsika for information of Director Projects, UHVVN, Panchsika.
- SPE to Director Projects, CHVNL, Hissar for information of Director Projects, CHVNL, Panchsika.
- CEOP UHVVN Panchsika & Rohtak.
- CEAM UHVVN Panchsika
- CE Commercial UHVVN Panchsika
- CEPOSC UHVVN Hissar
- AS S&P / OP UHVVN Panchsika
- AS S&P under COMPOSC, UHVVN, Panchsika.
- Asst IT UHVVN, Panchsika for updating the list of empanelment firms on Nigam's

JHARKHAND STATE ELECTRICITY BOARD
Engineering Building, Dhanuwi, Ranchi-4
Ph No. 0661-2400792

LOINA... 93 @ 64
CE (S&P) 7210111 Dated: 22/07/11

To: **M/S KEI Industries Limited,**
33, Dr. Sundari Mohan Avenue,
Kolkata-700 014. Tels: 033 2286-6606

Subj: Letter of Intent for supply of ISI marked 33 KV, 3 Core, 400 sqmm. XLPE Cable.

NIT# 524/PR/2SR/09-10

Dear Sirs,

With reference to your above offer against eforesaid NIT and subsequent correspondence, the Board to place an order with you for supply of 05 KM ISI marked 33 KV, 3 Core, 400 sqmm. XLPE Cable as per terms & conditions of the above NIT and as enumerated below:

- Name of material:** ISI marked 33 KV, 3 Core, 400 sqmm. XLPE Cable.
- Quantity:** 05 (Five) KM under ADP head.
- Expiry:** Landed unit rate of Rs. 15,35,485.03 (Rs. fifteen lac thirty five thousand four hundred eighty five and three) only on FIRM prior per KM.
- Insurance:** Insurance will be arranged by the Board.
- Payment:** Payment of the value of the materials will be made by Dy. Director of Accounts (HQ), JSER, Ranchi as per clause no. 25 of the above NIT.
- Delivery:** The materials are to be delivered within 30 (thirty) days of issue of P.O. However, early delivery will be appreciated.
- Penalty:** The above delivery shall be guaranteed under penalty clause of the above NIT.
- Security & Agreement:** You shall have to deposit security @ 2% (Two percent) of the ordered value at the execution of agreement and the amount of security shall be deposited with Dy. Director of Accounts (HQ) Ranchi either in cash or in shape of Bank Draft/Bank Certificate valid for the guaranteed period, prior to the Agreement.

You are requested to please confirm your acceptance within three days and deposit your representative with valid power of attorney for execution of the contract agreement within Seven days from the issue of LOI.

The detailed purchase order shall be issued after execution of the agreement. The agreement will be part of the P.O.

All other terms and conditions and technical specifications of the above NIT will also be applicable order.

Kindly acknowledge receipt of this letter.

Yours faithfully,
S(N Prasad)
Chief Engineer (S&P)

NUMALGARH REFINERY LIMITED
A GOVERNMENT OF INDIA UNDERTAKING

To Whom It May Concern

This is to certify that KEI Industries Limited has supplied 11 KV (E) grade Score x 36 sq. mm copper Cable against PO No.450002727 dt. 20/02/2007.

Quantity 4.08 KM vide KEI's Invoice no 7280791/200848

The delivery and quality assurance of the Cables are found to be satisfactory.

A.P. CHAKRABORTY
(Chief Manager Projects)
Numalgarh Refinery Ltd.
P.O. Numalgarh, Dist Golaghat,
Assam.

CC to: Mr. Aksh Saha.

Dy. General Manager - Eastern India.
KEI Industries Limited,
2/1 Kallikheri Lane, Floor-1
Jadavpur, Kolkata - 700 032,
West Bengal.

CC to: Mr. Kanchik Mohtra
KEI Industries Limited,
Regional Sales Executive - North East
Guwahati -

Bharat Heavy Electricals Limited
(A Govt. of India Undertaking)

Project Engineering Management

Ref: _____ Date: 09.07.2012

To: **M/S KEI INDUSTRIES LTD**
D-90, OKHLA INDUSTRIAL AREA, PHASE-I,
NEW DELHI 110020

Kind Attn: Mr. Gaurav Shanker Mathur (Asst. Manager-Marketing)

With reference to your request received vide e-mail dated 28.06.2012 for re-issuance of registration certificate, it may please be noted that M/S KEI INDUSTRIES LTD. with their registered office at D-90, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI 110020 and works at SP-919/920 RIICO Industrial Area, Phase-II, Bhiwadi, Dist Alwar- 301019, Rajasthan and A-280281/282/283/284 RIICO Industrial Area, Chopanki, Dist Alwar- 301019, Rajasthan is PEM registered vendor under Permanent Category having Vendor Code K627 for following packages:

- HT XLPE CABLES
- LT XLPE POWER CABLE
- LT PVC POWER CABLE
- LT PVC CONTROL CABLE
- SCREENED CONTROL CABLES
- LT XLPE CONTROL CABLE
- LT HRPVC POWER CABLES
- LT HRPVC CONTROL CABLES
- LT FIRE SURVIVAL CABLES
- BARE GROUND CONDUCTOR FOR BELOW GRD EARTHING
- BARE GROUND CONDUCTOR FOR ABOVE GRD EARTHING

The registered vendor has to comply vendor registration requirement as per BHEL policies and guidelines.

The above registration has the approval of the competent authority.

Thanking you,
For & on behalf of BHEL

(Manisha Gupta)
Sr. Engineer VD

CESC LIMITED

EASTERN BUILDING, 2nd Floor
151, Chowringhee Square, Kolkata - 700 009
Telephone: 2231 9150 (6 Lines)
Fax: (033) 2213 6502

Ref. Office: CESC HOUSE, Chowringhee Sq., Kolkata - 700 001.

PUR-38592/PB 19th May, 2011

KEI Industries Limited
33, Dr. Sundari Mohan Avenue
Kolkata-700014

Attn: Mr. Aksh Saha

Dear Sirs,

**Letter of Intent for supply of
1.1 KV Grade LT Power Cables
For FY 2011-12**

With reference to your Offer no. KEI-KOL/CEC/11-12/Q-070 dated 0th May, 2011, and subsequent negotiations through your email reference: KEI-KOL/CEC/SH/11-12 dated 17th May, 2011, we are pleased to place this Letter of Intent for supply of the following sizes of 1.1 KV grade LT Power Cables:

Sl. No.	Description	Qty. (km) (May 2011 - June 2012)	All-inclusive Inclusive price (Rs. Per Km)
1.	1.1 KV grade, XLPE Insulated, stranded Aluminium conductor cable, inner sheath of lapped plastic tape, single layer of galvanized steel strip armoured, PVC overall sheathed, conforming to IS:7098 (Part I), 1998 with latest amendments	50	1,04,000/-
2.	3/5 core x 70 sq.mm	45	2,03,000/-
3.	3/5 core x 150 sq. mm	30	3,96,000/-
4.	3/5 core x 240 sq. mm	110	6,00,000/-
5.	4 core x 408 sq.mm	25	10,61,000/-

Total Value : Rs. 11,85,00,000 /- (All-Inclusive)
(Rupees Eleven Crores Eighty Five Lacs only)

Visit us at www.cesc.co.in

RPG

STEEL AUTHORITY OF INDIA LTD. - ISCO STEEL PLANT
(A Government of India Enterprise)

PLANT ENGINEERING & DEVELOPMENT DEVISION
Sunderbharthy P.O. - 713325, W. B. (West Bengal)
Telephone: (0334) 2246256, 2246588
Fax No (Home) No. (0334) 2246287
E-Mail: ism-ed@iscpl.com

Ref. No: P/EN/14/2011 dt: 20.5.2011 Date: 21.09.11

To: **S/A Design**
General Manager, SRL, Isert,
M/s. M/s. M/s. Bharat Engg. Co. Ltd.,
4, Mangal 1 and 2nd Floor,
Kolkata-700014.

Dear Sirs,

Subj: 7.5 Mtpa New Stream Expansion of ISP.
Approval of Additional Vendor for
Product Plant (Package No. 05)

This has reference to your letter no. MBE/S/07/02/09/060 dt: 21.08.08 regarding approval of additional vendors for supply of HT Power Cables to be used at Plant.

We have examined your request and inform you that M/s. KEI Industries Ltd. for supplying HT Power Cable to be used at Plant (Ag No. 05) without prejudice to the terms and conditions of the contract. This approval is also extended to other packages being executed by you under Expansion & Modernization Plan of ISP.

This approval does not relieve M/s. Bharat Engg. Co. Ltd. from their responsibility of achieving performance as per the system test, plant as stipulated in the contract.

Thanking you,

Yours faithfully,
For S/A - ISCO STEEL PLANT
S. G. GHOSH
D.O. M/PM/02.1

CC: S/A Final, Design Division,
G.M. & H.O. (Design), Isert,
M/s. M/s. Bharat Engg. Co. Ltd.,
4, Mangal 1 and 2nd Floor,
Kolkata-700014.

Tax No. 033-2246256

This refers to your fax dt: 27.09.08 re: the above subject.

Tele: 25673339

Headquarters
Chief Engineer (AF) WAC
Pin Code -900838
C/O 58 APO

40048/44 /E4 Jan 2008

CWE(AF) Chandigarh
CWE(AF) Ambala
CWE(AF) Bikaner
CWE(AF) Palam
GE (I) AF Gurgaon

APPROVAL OF PRODUCT

- M/S KEI INDUSTRIES LIMITED D-90, OKHLA INDUSTRIAL AREA, PHASE-I NEW DELHI-110020 has been approved of their Products KEI Brand manufacturer of POWER, CONTROL INSTRUMENTATION, FRLS and ABC cables of various sizes up to 66KV by Chief Engineer for use of their product on trial basis.
- You may use of this Product in your area on trial basis.
- The lead back of their Performance report of the product should be intimated to this HQ for further incorporation of product in our area
- The should be disseminated up to GE level
- The approval does not absolve the executive/supervisory staff from their responsibility for using correct quality product. It is only after they are satisfied about the Quality and performance the product will be used. Mandatory checks about the quality will be carried out as laid down and the record of the same maintained.

Yours faithfully,
(A.K. Gupta)
Chief Engineer
FOR CHIEF ENGINEER (AF) WAC
C/O 58 APO

Ref your letter No Nil dt: 14 Dec 2007
You are requested to contact the various
CWE s/GE under our area for uses of
your product in Defense works

M/S KEI INDUSTRIES LIMITED
D-90, OKHLA INDUSTRIAL AREA,
PHASE-I NEW DELHI-110020

Tele: 011-2681840, 2681642
2681558, 2681559.

ANSAL BUILDWELL LTD.
(AN ISO 9001:2000 CERTIFIED COMPANY)

REF -ABL-2006 Date: 25th April, 2006

M/S KEI INDUSTRIES LTD
D-90, OKHLA INDUSTRIAL AREA
PHASE - I,
NEW DELHI - 110020.

KIND ATTENTION : MR KAPIL KUMAR PURI
Subj- Approval For Cables and Wires of KEI Brand

Dear Sir,

Based on the documentation and personal interview the following makes as approved for use of our on going works and future projects.

- HT cable upto 33KV
- Low tension Copper/Aluminium Conductor PVC & XLPE Power Cables.
- Low Tension PVC & XLPE Control Cables.
- Flexiblock House Wires (Single & Multicore)
- Fire Survival Zero Halogen Cables
- FRLS/FH/FHTR/FHTR/LDPE-Power Control & Instrumentation Cables.

Thanking you,

Yours faithfully
FOR ANSAL BUILDWELL LTD
(R. RAJAGOPALAN)
GENERAL MANAGER (Services)

CC : Commercial Department



CENTRAL POWER DISTRIBUTION COMPANY OF A.P. I

**PERFORMANCE CERTIFICATE
(TO WHOM SO EVER IT MAY CONCERN)**

This is to certify that M/s. KEI Industries Ltd., 3-6-760, C-1, Suvama Soufments, Street No. 13, Himayathnagar, Hyderabad - 29 have supplied 3C x 400 Sq.mm XLPE Cable against the following purchase orders placed office. The supplies were completed in time and the cables are allged.

PO. No. & Date	Qty. Ordered	Qty. Supplied
P.O.No. CGM/P&MM/E-21/STN-48/ PM-2270/07, Dt:27-01-2007.	2.0 KM	2.037 KM
P.O.No. CGM/P&MM/E.21/STN-48/PM-2270/ Repeat PM-2326/07, dt. 24-04-2007.	2.5 KM	2.587 KM

[Signature]
for CHIEF GENERAL MANAGER/P&S

1144/uradev/07/P&S/000004000

DC INDUSTRIAL PLANT SERVICES PRIVATE LIMITED

White House, 2nd Floor
119, Park Street, Kolkata - 700 016
Tel: 2256-1012 / 2225 / 8253 / 8234 / 8113
Fax: 2259-3138
E-Mail: mail@dcps.com
Website: http://www.dcps.com



To Whom It May Concern

This is to certify that KEI Industries Limited has supplied 7.102 Kms. of 3 Core X 185 mm. 6.35/11 KV (E) Grade Armoured Heavy Duty XLPE Insulated Stranded Alumin Conductor Cable for our WBPCL, Sagardighi TPS (2X300 MW, Unit # 1 & 2) Ash Handl Plant & Ash Water Recovery Plant against our P.O. Nos. 25P06/E/24E/1002/C da 14.03.07 and 26P01/E/24E/1003/C dated 14.03.07 vide Invoice Nos. 72000860 to 864 da 09.06.2007.

The delivery schedule and quality assurance of the Cables are found satisfactory.

DC INDUSTRIAL PLANT SERVICES (P) LTD.

[Signature]
S. SANYAL
SR. GENERAL MANAGER (ELECTRICAL)

Date : January 31, 2008

cc. KEI/KOLKATA : Attn. MR. ALOK SAHA.
1144/uradev/07/P&S/000004000



झारखंड राज्य विद्युत् बोर्ड
Jharkhand State Electricity Board

N.O. 191 Dt. 8/19/2008

TO WHOM IT MAY CONCERN

This is to certify that JSEB have placed P.O. No. 15 dated 12.04.08 on M/s KEI, Kolkata for supply of 10.5 Kms 5.6/11 KV(E) Grade armoured XLPE FRLS, Aluminum conductor HT Power Cable of various sizes worth Rs 2.18 crores including taxes and freight for Patratu TPS.

Firm have delivered the material within stipulated period and quality of the materials are found satisfactory after site inspection.

[Signature]
(R.K. Choudhary)
Chief Engineer (Generation)



JSW Steel Limited
Salem Works
P.O. Putaneri, Mocherri
Mettur - TL, Salem - DK - 636 453
Tamil Nadu, India
Phone : 04758 278400
Fax : 04249 278018
Website : www.jsw.in

Date: 17th March 2009

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s. KEI INDUSTRIES LIMITED have supplied the following HT cables for our project against PO No. 06/6/72/900086 dtd 21/04/06

Sl.No	Item Description	Qty (Mtrs)
1	1C x 400 sq.mm, 11kV (UE) XLPE	21000
2	3C x 240 sq.mm, 11kV (UE) XLPE	16000
3	3C x 185 sq.mm, 11kV (UE) XLPE	3500
4	3C x 240 sq.mm, 3.3kV (UE) XLPE	2200
5	3C x 120 sq.mm, 3.3kV (UE) XLPE	750
6	3C x 95 sq.mm, 3.3kV (UE) XLPE	1500
7	3C x 70 sq.mm, 3.3kV (UE) XLPE	1000

The above cables have been charged and commissioned for more than two years now and are in satisfactory operation.

[Signature]
K Kannan
Associate Vice President (Engg & projects)
JSW STEEL LIMITED., Salem Works

Regd. Office : Jindal Mansoon,
S.A. D.G. Deobanakh Marg,
Mumbai - 400 024
Phone : 022-2341 3000
Fax : 022-2352 6400

Part of D.P. Jindal Group

C.S.T. 08-588845 D. 24-4-08
U.P.T.T. 08-048748 D. 24-4-08

Company Line:- 02-423
Tel: 011-2719781
Ph: 011-2719789
Fax: 011-2719423
e-mail: capital@capital.com



ENGINEERS & CONTRACTORS
Deals In : All kinds Electric Goods

Cor. Off. : B-163, SWARAN JAYANTI PURAM, GHAZIABAD, (U.P.)

Ref No: CEPLR-APDRP/KEI/14-15/138 Date: 13-05-2014

CEPLR-APDRP/KEI/14-15/138
SUPPLY ORDER
To,
KEI Industries Ltd.,
102, Suran Chamber-2,
Park Road, Lucknow,
Kind Attn: Mr. Manoj Sharma(995553704)

Dear Sir,
We are pleased to place a supply order of following Material for R-APDRP-SCADA Project at EDC Bhumi (DVVN).

Sr. No.	Particular	Qty. in Km	Unit FORD Price in Rs.	Total FORD Price in Rs.
1	11KV XLPE 3X120sq mm. Cable Armored	31.150	544000.00	16950000.00
2	11KV XLPE 3X155sq mm. Cable Armored	119.000	709000.00	84399000.00
3	11KV XLPE 3X240sq mm. Cable Armored	1.250	999000.00	1248750.00
4	11KV XLPE 3X505sq mm. Cable Armored	1.000	1160000.00	1160000.00
5	11KV XLPE 3X600sq mm. Cable Armored	22.000	1680000.00	37140000.00
6	11KV XLPE 3X300sq mm. Cable Armored	30.800	1400000.00	43120000.00
TOTAL AMOUNT				20,29,49,420.00

- COMMERCIAL TERMS & CONDITIONS
- SCOPE OF WORKS
Your scope of work shall be limited to design, manufacturing, testing and on-site supply of equipment as per the Bill of Qty & Price schedule, approved GTP & drawings.
- PRICE BASIS
The above mentioned prices will remain firm during the period of complete supply of material items.
- TAXES & DUTIES
Above rates are inclusive of all Duties & Taxes including any inspection charges if applicable and FORMED in this.
- TERMS OF PAYMENT
(a) 15% interim free advance of Total Value of PO after Drawing & GTP approval.
(b) Balance payment against 90 days PDC from date of receipt of entire material as per.
- DELIVERY & MANUFACTURING PROCESS
Will be carried after approval of GTP and Drawing. Material will be delivered at Plant.
- CONTRACT DRAWINGS & MATERIALS
You shall submit the 3 sets of GTP, GSA Drawing, Foundation plan, Schematic diagram, wiring table and the BOM to VPPCL. we are holded we will do all the supporting formalities required for submission of the same to department and you have to get the approval of GTP and Drawing by your own from the department.
Along with the dispatch of equipment you will supply 4 sets of all the final approved drawings viz GTP, BOM, GSA, Foundation plan, Schematic diagram, wiring table along with connection manual for the testing & commissioning. You will also furnish the test report of equipment if available.

Reg. Off. : Plot No. 44A, Block E, Vasthwan Park, Uppan Nagar, New Delhi-110058 Tel. No. : 8811311220

पूर्वोत्तर सीमा रेल
NORTH EAST FRONTIER RAILWAY

कार्यालय
य विद्युत् इंजीनियर
सीमा, मुनाहारी-781011

OFFICE OF THE
CHIEF ELECTRICAL ENGINEER
North East Frontier Railway
Mahaagan, Guwahati-781011
TEL No. : 9361-267028 (OCT) (C)
23400 (RM) (C)
Fax No. : 0361-267029 (C)

No. EL/W/29/PC Dated 24-04-2007

To,
M/s KEI Industries Ltd.,
2/1 Kalibari Lane,
Jalpaiguri, Kalyanpur - 760032

(Attention : Mr. Alok Saha, GM East)

Dear Sir,
Sub. Performance certificate.

This is to certify that "KEI Brand" 33/11 KV HT XLPE cable and LT 1.1 KV XLPE cable of various sizes are being supplied and commissioned by different contractors in number of stations on NE Railway against different contract agreement from time to time since a considerable period. These cables are being purchased by the Contractors through local Distributor/ Authorised dealer of "KEI Brand".

So far the performance of "KEI Brand" Cable is experienced to be satisfactory.

Yours faithfully,
[Signature]
(N SARKAR)
Executive Electrical Engineer
for Chief Electrical Engineer



J.K. Electric Contract
(A' Class Govt. Contractor & Order Suppliers)
Licence No. 974/A/ Dt. 1991 - TIN No. 08211751287 - RET/1451/N/ 1490

Ref No. JKEC : 04/01 : 200

M/s KEI Industries Limited
158B Mahendwas House
Phase I, New Bazar,

Sub. Performance of KEI make 11KV/11KV XLPE Cables.

Dear Sir,
Please find enclosed herewith the Performance Certificate of cables received from Jaipur Development Authority, Jaipur for various works executed by us. Cables of various sizes are as under.

1. 3 core x 100Sqmm XLPE 11KV Grade-III Iron Cable - 17 Km
2. 1 core x 100Sqmm XLPE 11KV Grade-III Iron Cable - 17 Km
3. 3 core x 100Sqmm XLPE 5.5KV Grade-III Iron Cable - 29 Km.

The performance of the cables had by us is satisfactory.

Thanking you,
Yours truly,
For J.K. Electric Contractor

[Signature]
Encl. As above

158-159 MAHENDWAS HOUSE, NEHRU BAZAR, JAIPUR. 302 003 (C) 2316658 (R) 2592291

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

TO WHOM SO EVER IT MAY CONCERN

certified that M/s J.K. Electric Contractor, 158-159, Mahendwas house, ru Bazar, Jaipur are Electrical 'A' Class Contractor and registered in "F-I" in JDA, Jaipur had executed the work of:-

ie of work	Work Order No. & Date	Main Component of Work	Financial Year
of existing HT/LT Lines	49.1.02.05	L.T. Cable = 16652 Mtr.	2005-2006
aying U/G Cables from		11KV 3x185 Cable = 5683 Mtr.	
an Marg to Ajmeri Gate			
onk Road, Jaipur.			

ism is working satisfactorily.

[Signature]
Zonal Engineer
Jaipur Development Authority
Jaipur

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

TO WHOM SO EVER IT MAY CONCERN

ertified that M/s J.K. Electric Contractor, 158-159, Mahendwas house, Bazar, Jaipur are Electrical 'A' Class Contractor and registered in "E-I" in JDA. Jai d executed the following quantities against Work Orders mentioned below.

of work	Work Order No. & Date	Main Component of Work	Financial Year
on of 33 KV Charging for JDA Residential Scheme Nagar, Jaipur. (Phase-III)	379, 14.08.07	3C x 300 Sqmm, 33KV XLPE Cable - 12218 Mtr. 33KV O/D Joint - 8 Nos. 33KV S/C Joint - 34 Nos.	2007-08.
on of 33 KV Double Circuit ng feeder from 132KV GSS Basi V Scheme Kalpana Nagar, Jaipur	381, 14.08.07	3C x 300 Sqmm, 33KV XLPE Cable - 10158 Mtr. 33KV O/D Joint - 4 Nos. 33KV S/C Joint - 32 Nos.	2007-08

Zonal Engineer (Electr)
Jaipur Development Authority
Jaipur

Palmers Green International Ltd.

Box 3689
Accra, Ghana

Ref: PGI/PO/Z N 76349/2005/1283 Date: 26/03/2006

To,
M/s. KEI Industries Ltd.
101 - 102 Vastu Shilp
Vastu Enclave
Andheri (E), Mumbai
India - 400093

Attn: Mr. S Sharma

Sub: Supply of 25Km 1 x 630 33 KV Aluminium XLPE Cable for Ghana against PO Number PO/Z N 76349/2005 dated 08/10/2005

Dear Sir / Madam,

With reference to the above mentioned Purchase Order, we would like to inform you that we have received the full quantity of 25 KM at our warehouse.

The cables have since been despatched to the various sites and the tests conducted on them while installation have been found to be satisfactory and no problems have been cited or reported.

This letter has been issued upon the request of KEI Industries Ltd.

For Palmers Green International Ltd.
Albert Parry
DMD - International Business

GOVERNMENT OF ASSAM
OFFICE OF THE CHIEF ENGINEER, P.W.D.(BUILDING), ASSAM
CHANDMARI, GUWAHATI-3

No. CE/BLD/ELECT/15/09/01-11/28 Date: 14-12-2007

THE KEI INDUSTRIES LIMITED
33 OR, SUNBARI MOHAN AVENUE
1ST FLOOR, KOLKATA-700014

Sub: Approval of your electrical product

Ref.: Your letter No. KEI/KOL/ ASS/SA/09-11/0211 Dated: 2nd November 2009.

Dear Sir,

With reference to the above, I am to inform you that your following product has been provisionally approved for one year the date of issue of this letter. The approval will be cancelled at any time after receipt of complaint against unsatisfactory performance of your products.

LIST OF MATERIALS

- PVC/HTLPE Insulated Power cable up to 33 KV Grade as per IS54/7098
- PVC flexible wires and cables as per IS 694.
- FRLS/FRLS/THRN cables and winding wires.
- Submersible cables and winding wires.
- Armored PVC controlled cables as per IS: 1354(P-1)-1988.
- 112 KV grade cables as per IS 2018 (IS 112)

The approval given above does not absolve APSP Engineers from their responsibility of exercising necessary checks in quality, rates and performance of the product while procuring and using the same.

Yours faithfully,
Asst. Chief Engineer, PWD (Elect.)
Chandmari, Guwahati-3

Copy to: 1) The Superintending Engineer, P.W.D. Guwahati Electrical Circle, Ghy - 1 for information and necessary action.
2) The Executive Engineer, P.W.D. Guwahati/Perhal/Tezpur/Kokrajhar Electrical Division for information and necessary action.
3) MR. ALOR SAHA General Manager (Mtg) KEI Industries Limited Kolkata for information and necessary action.

Asst. Chief Engineer, PWD (Elect.)
Assam, Chandmari, Guwahati-3

विद्युत विभाग असाँ (असम)
Date 24/09/2007

TO WHOMEVER IT MAY CONCERN

is to certify that we have used KEI Make 22kv (E) 3c x 185 Sqmm - 15 Km d qmm - 2 Km HT cables against PO No. 457/07 dt. 19/10/2007.

ive charged the cables & performance of the cable found to be satisfactory til

Executive Engineer (Electrical)
Chinchwad Municipal Corporation
1-18, "C" Section Electrical Department,
Executive Engineer (E.)
C Ward,
Chinchwad Municipal Corp.

TO WHOM IT MAY CONCERN

This is to certify that we have used KEI make 33 KV (E) 630 sq. mm X 1 Core HT. cable through M/s. Predip Kumar saha (Electrical Contractor) against C.A. No. CE(D)/ASEB/APDRP/CEC- Turmkey/06-07/20 dated 19.08.2007 Total Mtr. 1056.

We found KEI make cable satisfactory till now.

Thanks and Regards,
P.C. Bhagabati
S.D.O.
ASEB, FANCY BAZAR ELECTRICAL SUB DIVISION.

TO
Mr. Ajok Saha
Dy. General Manager (Marketing)
KEI INDUSTRIES LIMITED,
2/1, KALIBARI LANE,
JADAVPUR KOLKATA 700032,
Phone: 033 24294773

CC to
Mr. Kaushik Moitra
KEI INDUSTRIES LIMITED,
Regional Sales Executive North East,
Guwahati
Call 0 9954255137.

MAHARASHTRA STATE POWER GENERATION CO. LTD. (MAHAGENCO)
(Formerly Maharashtra State Electricity Board)
Prakashgad, 2nd Floor, (Bandra (East), Mumbai-400 051, India
Tel. 26472131/26422211 Fax No. 26582627 Grams : COSGRID

Jr.IV/Misc/ 2164 -- Date: 15 FEB 20

WHOM SO EVER IT MAY CONCERN

is to certify that M/s. KEI Industries Ltd., Mumbai have executed orders SP/L-001 H04 0207/13850 dtd. 13-09-2007 & SP/L-001/T-0406/0706-4502 dtd. 07-04-2007 o office. M/s. KEI Industries Ltd., Mumbai have also registered in e-tendering proces is office for procurement of HT. LT XLPE/HRPVC/FRLS Control & Power Cables.

Superintending Engineer (St.Gen)
For Chief General Manager (Stores)

Eastern Coalfields Limited
(A Subsidiary of Coal India Limited)

विद्युत एवं NOTING SHEET

Area Engineering (EAM) is

File No. Sheet No. ECL/SEDA/AE(EAM)/P/07/02/1

Subject Performance Report of PVC DWA Cable, 3 Core, 95² MM, 3.3 KV Grade drawn by Sodepur Area on dated 16-04-2006 & 07-05-2004 total length 506 Mtrs.

The above mentioned Cable was drawn by Sodepur Area during April '04 & used in Parbelia/Patsohon Colliery.

The Performance Report of the Cable as known from the user Engineers (I) of the Colliery are found to be satisfactory.

While as for kind information and needful.

Supt. Engineer (EAM), Sodepur Area

VP(A)
For your kind info. 17/2

ABB

Dated : May 9, 2007

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/S KEI INDUSTRIES LIMITED Have supplied 22 KV HT UG XLPE cables in different sizes for Wipro Pune Phase IV Project. The cables supplied are laid & charged and the same is working satisfactorily.

Sudarshan S. Bhat
Project Manager

ABB Limited

ABB India Pvt. Ltd. Telephone: +91 80 22961111
2nd Floor, Park Road, Bangalore - 560002
Fax: +91 80 22961112

Regional Office and Technical Office
2nd Floor, Park Road, Bangalore - 560002
Fax: +91 80 22961112

Telephone: +91 80 22961111
Fax: +91 80 22961112

ORIENTAL Sales Corporation

TO WHOMSOEVER IT MAY CONCERN

This is certify that M/s KEI Industries Ltd. has supplied the "KEI" Make Cable to us of below mention size for Various Projects of Jaipur Development Authority, Jaipur / Jaipur Vidut Vitran Nigan Limited, Jaipur .

1. 3 core 185 sq.mm 11 KV HT Cable (E)	35 km.
2. 3 core 300 sq.mm 11 KV HT cable (E)	15 km.
3. 3 core 300 sq.mm 33kv HT cable (F)	20 km

Further this is to certify that 80% of the above quantity has been laid and commissioned and handed over to concerned department. Performance of all the Cable found satisfactory.

For Oriental sales Corporation

Vikas Gupta
Managing Director

STEEL AUTHORITY OF INDIA LTD. - ISCO STEEL PLANT

Ref. No.: PEDD/CPL-20/214
Date: 31.10.2008

To
M/s. Mecon Ltd.,
Ranchi - 834002,
Jharkhand.

Fax No.: 0651-2482189 / 248221.

Attn: Shri S. K. Bose, G. M. (T.S - Project ISP),

Dear Sir,

Re: 2.5 MTPA Expansion Programme of SAIL - II, Bokaro
General Specification for Preferred makes (G - 12).
Additional Electrical Vendors for Supply Item 1.

Please find enclosed herewith a list of additional preferred makes and corresponding equipment / material for inclusion in the LIST OF PREFERRED MAKES in the technical specification of auxiliary packages and other packages to be tendered in future in connection with the above project. These names may be included in those packages & where techno-commercial discussions are still in progress or yet to commence.

Enclosure-I (One page)

Shri K.K. Mukherjee,
General Manager (Elect.),
MECON, Ranchi.
Fax No. 0651-2481669

Shri Neelkamal,
DGM (Elect.) Power T&D,
MECON Ltd., Ranchi.
Fax No.: 0651-2482189 / 2482214

GOVERNMENT OF INDIA-MINISTRY OF COMMUNICATIONS & IT
DEPARTMENT OF POSTS- CIVIL WING
O/o The Superintending Engineer (E), Postal Electrical Circle
1st Floor, Basavanagudi HPO Bldg, Bangalore- 560004
Tel: 080-26675101(D), 080-26675104; FAX: 080-26675102

No: 25(216)/SEE/PEC/BGL/2015-16/544
dated: 16.09.2015

OFFICE MEMORANDUM

Sub: Approval for brands for inclusion in NITs/Tenders

The following wires and cables manufactured by M/s KEI Industries Limited, D-90, Okhla Industrial Area phase-I, New Delhi-110020 are hereby approved for use in Electrical Divisions falling under control of SE(E), PEC, Bangalore

Sl No	Description of items	Brand of the product
1	LT Cables	KEI
2	PVC insulated wires	KEI
3	Control cables	KEI

The products are approved for a period of Two years from the date of issue of this order.

The approval does not absolve Department of posts Engineers from their responsibility of exercising necessary checks like quality, rates, and performance of the products while processing/using the same. Shortcomings/Inconspicuous of serious nature if observed while in use at site may be brought to the notice of this office.

This issued with the approval of competent authority.

Executive Engineer (P&D)
Postal Electrical Circle
Bangalore.

Copy to:
1. The executive Engineer(E), Postal electrical Division, Bangalore/Mumbai/Jaipur.
2. Assistant Engineer(E), PESD under above divisions through EEs.
3. M/s KEI Industries Limited, D-90, Okhla Industrial Area phase-I, New Delhi-110020

TAMIL NADU POLICE HOUSING CORPORATION LIMITED
No: 132 E.V.R.Salai, Kilpauk, Chennai-10

Circular Memo No.CE/DB/372/2014
Date: 07.05.2014

Sub: TNPHC - HO - DB - M/s. KEI Industries Ltd., "KEI" make wires & cables - Renewal - Intimation - Reg.

Ref: 1. T.O.Circular Memo No.CE/DB/0079/2009 Dt: 19.03.2012
2. T.O.Circular Memo No.CE/DB/298/2013 Dt: 10.04.2013
3. M/s. KEI Industries Ltd., Lr.No.KEI/CHE/TNPHC/03/13-14 Dt:28.03.2014.

The attention of all the SEs and EEs are invited to the reference 1st & 2nd cited wherein the following "KEI" brand products have already been included as one of the acceptable make for use in TNPHC works.

1. Cross linked polyethylene insulated PVC sheathed cables; Part I For working voltage upto and including 1100V IS 7098:Part I:1988.
2. PVC insulated cables for working voltage upto and including 1100V with ISI Mark, IS 694:1990.

Now in reference 3rd cited, M/s. KEI Industries Ltd., have furnished relevant documents and requested renewal of their brand products to use in TNPHC works. After careful consideration their request is considered and renewal accorded for one more year to use their products in TNPHC works.

Enclosure to letter Ref. No Ref. No.: PEDD CPL-20/214
Date: 31.10.2008

Annexure-I

Sl. No.	Additional Name of Preferred Makes	Name of Equipment	Materials
1.	Andrew Yule & Co. Ltd.	3.3/6.6/11 KV Indoor VCB Switch board. Up to 15000 KVA 11 KV Class Distribution Transformers (ONAN)	
2.	LSIS / CECO Electronics Pvt. Ltd. / Control Engg. Co.	LT Switch gear & Control gear and Protection Panel Automation Panel Digital Motor Protection Relay.	
3.	YAMUNA Power and Infrastructure Ltd. (DENSONS)	HT & LT cable jointing kits.	
4.	Standard Electrical Ltd.	MCB Distribution board (SLDB). E.L.C.B Metal clad plug & sockets.	
5.	KEI Industries Ltd.	LT Power & Control cables. (PVC / XLPE) 6.6 KV XLPE Cables (only for dry circuit method).	
6.	Steel Pole Corporation	Steel tubular poles.	
7.	Control Devices	MCC (Non-draw out), PDB, MLDB Relay Control Panel, Receptacle	

ABB

3rd FEBRUARY 2008

TO WHOMSOEVER IT MAY CONCERN

THIS IS TO CERTIFY THAT M/S KEI INDUSTRIES LIMITED HAS SUPPLIED THE FOLLOWING CABLES FOR M/S SITARAM POWER PROJECT AGAINST OUR PO NO. 59000012 DT. 24th JULY 2006.

6.6 KV (LF), THREE CORE, STANDARD ALUMINIUM CONDUCTOR, WITH EXTRUDED SEMI CONDUCTING COMPOUND IN COMBINATION WITH COPPER TAPE, EXTRUDED XLPE INSULATED WITH PVC INSUL SHEATH, GI SUMP ARMoured, EXTRUDED OVER ALL PVC SHEATH OF FOLLOWING SIZES:

3C X 120 SQMM 750 METER
3C X 300 SQMM 250 METER

THE CABLE SUPPLIES HAVE BEEN SATISFACTORY AND SUPPLIED TO US AS PER CONTRACTUAL DELIVERY PERIOD.

HT CABLES AS MENTIONED ABOVE HAVE BEEN COMMISSIONED AND THE PERFORMANCE OF THE SAME ARE FOUND SATISFACTORY.

YOUR'S TRULY,
For ABB LTD.

AUTHORIZED SIGNATORY

ABB Limited

Further, it is informed that the Superintending Engineers/Executive Engineers should insist the field staff to get test certificate along with each consignment without fail. If the performance of the Products seems to be unsatisfactory, the same should be brought to the notice of the undersigned with relevant record at once.

The receipt of the circular memo may be acknowledged by return of post.

Sd/-
Chief Engineer/TNPHC

To
All the SEs of TNPHC Ltd.,
All the EEs of TNPHC Ltd.,

Copy to: /order
M/s. KEI Industries Ltd.,
Flat No: 10, 1st Floor,
Kannu Apartment,
No: 68, (Old No: 141)
Edlams Road, Teyyanampet,
Chennai - 600 018.

And the firm is requested to produce necessary test certificates along with each and every consignment. Also the firm is requested to produce ITC & STC every year to this office without fail.

Forwarded by Order
Sd/-
Sd/-
Sd/-

HALDIA Petrochemicals Limited

Date: 15/07/14

To,
M/s. KEI INDUSTRIES LTD.
D-90 OKHLA INDUSTRIAL ESTATE, PHASE-I
NEW DELHI - 110020
Phone - 681884042

Dear Sir,

Subject: Letter of Appreciation

We are pleased to inform you that Haldia Petrochemicals Limited has been certified as ISO 9001:2009 Company by Certifying Agency DNV

As per ISO norms, vendors working with HPL need to be evaluated for their performance. Accordingly, we sorted out our most important vendors for the purpose of evaluation and your company is one of them. We are glad to announce here that you have been rated as "Excellent" based on your performance for the period 01.04.06 to 30.09.06.

We expect you to maintain this trend and also hope that you will put your best efforts for further improvement in your performance.

Thinking you and looking forward to a fruitful and healthy business relationship between your company and Haldia Petrochemicals Limited in years to come.

Very truly yours,
For Haldia Petrochemicals Limited
Sd/-
(Tammy) Sr
GM - Materials

M/s Kanti Prasad Mittal
A CLASS CIVIL & ELECTRICAL GOVERNMENT CONTRACTOR

KEI Industries Limited
D-90 Okhla Industrial Area Phase-I,
New Delhi-110020, INDIA
Phone No. 011-26811959

REF No. B/No/2007/147 DATED 26/03/07

Sl. No.	Item Description	Qty (Mtr.)	Rate per mtr.	Amount (Rs.)
1.	33kv XLPE Cable as per MIB&C specification as per Approved UTP	27000.00	1700.00	45900000.00
TOTAL				45900000.00

6. COMMERCIAL TERMS & CONDITIONS

13. PRICE BASIS
The above mentioned prices will include free during the period of complete supply of material items.

14. TERMS OF PAYMENT
(i) 10% advance for advance of Total Value of PO after Drawing & GTP approval.
(ii) Balance 90% payment against POC of 90 days from date of dispatch of material at site.

H.O. - 155, Ganga Colony, Transport Nagar, Meerut (U.P.)
C.S.T. No. MR/224807/DA-28-847

0121-2511749 Cell: 9977643615, 9412203616, Fax: 0121-2511547
Email: kpm_bidders@yahoo.com, kprbidder@gmail.com
Website: www.kprmit.com

वित्त अथॉरिटी ऑफ इंडिया लिमिटेड
FINANCIAL AUTHORITY OF INDIA LIMITED
(Govt. of India Enterprise)

26/3/07
27/3/07
28/3/07
29/3/07
30/3/07
31/3/07
1st June, 2007

M/s KEI Industries Limited,
D-90 Okhla Industrial Area,
Phase-I,
New Delhi - 110 020
Fax 011-26811959

Dear Sir,

Please refer to your letter No. KEI/Intro/2007/SCD dt. 28.05.2007 regarding request for registration/approval/empowerment for "KEI" make HT XLPE Cable upto 33 KV, LT Power & Control Cable, Flexible wires/cables, Instrumentation Cable, Rubber Cable, etc. for upcoming project for setting up of power plant. We have referred your letter to Centre for Engineering & Technology, Ranchi, (a unit of SAIL) for considering you in the said project. For detailed discussions, you may please contact at the following address:

Shri R. Bhargav,
DCM (Utility Services-Power),
CET,
Ranchi
Telephone No. 0651-2411195/9334042525(Cell)
Fax - 0651-2411171/2411167

Thanking you,

Yours faithfully,
General Manager (SAILCON)

वित्त अथॉरिटी ऑफ इंडिया लिमिटेड
SAIL Consultancy Division (As ISO 9001:2000 Organized) 18th Floor, SCOPE Block, Laxmi Nagar District Centre, Delhi-110 092, INDIA
Phone: CR - +91-11-22462365, 22631242 (D), Fax: +91-11-22464616
वेबसाइट: वित्त अथॉरिटी ऑफ इंडिया लिमिटेड, 18 फ्लोर, स्कोप ब्लॉक, लक्ष्मी नगर डिस्ट्रिक्ट सेंटर, दिल्ली-110 092, भारत
रजिस्टर्ड ऑफिस: लोक नगर, लुधियाना, पंजाब, फोन: +91-11-24387481 (14 लाइन्स) फैक्स: +91-11-24387415
वेबसाइट: वित्त अथॉरिटी ऑफ इंडिया लिमिटेड

MITCON
CONSULTANCY SERVICES LTD.

Ref No.: LIB-VENDOR REG./2006-07 Date: March 1, 2007

To,
M/s. KEI INDUSTRIES LIMITED
101-102, Vastu Ship,
Vastu Enclave, Jijamata Road,
Andheri Pump House,
Andheri(E), Mumbai-400093
Tel: 022-28239673

Sub: Confirmation of Vendor Registration

Dear Sir,

We acknowledge with thanks the receipt of your Letter along with Vendor Registration Form duly filled in and the payment of Rs.5000/- (Five Thousand Only) by C.No.599485 dated 29th January 2007 for Registration. We have noted all the details enclosed by you. We will circulate the same to the concerned departments and our clients as per their requirement. We are registering you as Authorized Vendor for HT Cables up to 33KV/ LT PVC, Instrumentation/ Rubber /FS Cables, Flexible Cables and House Wires, Speciality Cables Wiring and Mining Cables.

Sub: VEN/MIT-LIB/ KEI INDUSTRIES / 2006-07/42

We are enclosing the official receipt for the above payment.

Thanking you,

Yours faithfully,
LIBRARIAN
MITCON, Pune.

Regd. Office: 1/28th Chambers, Shivajinagar, Pune-411002, India. Tel: 020-25533309, 25534322 Fax: 011-020-25531306
E-mail: mitcon@mitcon.com
Pune Branch: Agriculture College Campus, Next to DIC Office, Shivajinagar, Pune-411005 Tel: 020-25533006, 25533044 Fax: 011-020-25533007 E-mail: mitcon@mitcon.com
Mumbai Office: 1/28th Chambers, Shivajinagar, Shivajinagar, Pune-411002, India. Tel: 020-25533309, 25534322 Fax: 011-020-25531306
E-mail: mitcon@mitcon.com
New Delhi: 110066, India. Tel: 011-25597759 E-mail: mitcon@mitcon.com
www.mitconindia.com

Government of India
Office of Superintending Engineer (Electrical)
Hyderabad Central Electrical Circle
Central Public Works Department
3rd Floor, Nirman Bhawan, Sultan Bazar, Koti,
Hyderabad - 500 095
Ph: 24657792, Telefax: 24653630

No.206/1 (2013)HCEC/491 Dated 09/06/2013

To
M/S. KEI INDUSTRIES LIMITED,
Plot No.76, H.No.3-14-32/L, Shubhaga Colony,
Near Little Chums School,
Manosarani, Vanasthalipuram,
Hyderabad - 500 070.

Dear Sir,

Sub: Approval of products "KEI" brand LT/HT/EHV/Wires & Flexible Cables/Power & Control Cables with ISI Mark of manufactured by M/S. KEI INDUSTRIES LIMITED, # 99/2/7, Madhuvan Industrial Estate, Rakholi, Silchara - 396 230, for inclusion in NITs - Reg.

Ref: Your letter No.NIL dated 22nd May, 2013.

With reference to the above cited letter, brand approval is hereby accorded for inclusion of products "KEI" brand LT/HT/EHV/Wires & Flexible Cables/Power & Control Cables with ISI Mark of manufactured by M/S. KEI INDUSTRIES LIMITED, # 99/2/7, Madhuvan Industrial Estate, Rakholi, Silchara - 396 230, for use in electrical works under this Circle.

The above said approval is subject to validity of certificate issued by Bureau of Indian Standards.

The above products approved for a period of 2 (two) years from the date of issue of this order. The firm should apply well in advance for renewal of the same before the expiry date of approval.

The approval does not absolve CPWD Engineers concerned from their responsibility of exercising necessary checks like quality, rate and performance of the products while processing / using the same. Shortcomings / deficiencies of serious nature, if observed while in use at site may be brought to the notice of this office.

Yours faithfully,
Superintending Engineer(E)
HCEC, CPWD, Hyderabad.

Copy to:
1. All AE Executive Engineers (Electrical) under HCEC, CPWD, Hyderabad for information and necessary action. They are requested to incorporate the above brand products along with the already approved other brands in the list of preferred makes in the NITs approved by them.
2. The Executive Engineer (P) Planning Branch in HCEC for similar action.

Vendor Rating
NIRMA LIMITED

MA HOUSE ASHRAM ROAD
VEDABAD GUJARAT AHMEDABAD
Tel: +91-79-2754565-74
+91-79-27546621, +91-79-27546607
E-mail: procurement@nirma.co.in

Date: 30/03/2007

J/R 14 / Party Cd: 8061003VR000006 / 38783
KEI INDUSTRIES LIMITED
I-7, KALINDI FLATS, PASHABAI PARK RACE COURSE
JINCELA
VARODA GUJARAT BARODA
Phone: 0265 6539719, 2339196
Fax: 0265 2334101
Email: nishimitra@getb.net

Madam/Sr,
Vendor Performance Rating Information,
Supplies of materials at ALINDRA

I reference to the above subject, we would like to inform you that we have referred your past supplies of materials at our above for a period from date 01/10/2006 to 31/12/2006 and the details of our rating formula and your performance rating are as follows:

QUALITY - 70%, (B) DELIVERY - 20%, (C) SERVICE - 10%

ABOVE 95% - EXCELLENT
85% TO 95% - VERY GOOD
70% TO 85% - GOOD
55% TO 75% - NEEDS TO IMPROVE
55% AND BELOW - NEEDS TO IMMEDIATE REVIEW

Quality of materials (Rate of rejection)	70.00	Status:
Timely Delivery	20.00	98%
General Response	6.00	Excellent
Overall Mark and Status	96.00	

you obtained the total performance rating mark less than 65%, it means you have been failed on supplies of the material in timely, timely delivery & services, as committed by you with us. So we will compel to decide for further business with you.

you obtained the total performance rating mark between 65% and 85%, there is need/ scope for improvement in quality, timely delivery of material. We will observe your next performance rating marks.

you obtained the total performance rating mark between 85% and 95%, that means you need more efforts to improve the quality delivery of material to get the mark above 95% in future.

you obtained the total performance rating mark above 95%, kindly keep it up and try to improve the quality, timely delivery of material to get maximum mark in future.

are, therefore, requested to put your constant efforts for improvement quality, timely delivery and general response as per our requirement.

he meantime, if you have obtained the rating 85% and below as per our above performance rating, you may please refer to visit our procurement office for a detailed discussion with Shri C.J. Patel (DGM, Purchase) in the matter, after making a prior appointment from Mr. Kishore Trivedi, Ext. No. 120. (Contact nos. and address as above).

इंडियन ऑयल कॉर्पोरेशन लिमिटेड
INDIAN OIL CORPORATION LIMITED
Barrack Refinery, P. O., Barrack, CE Refinery
Engineering, Bharu - 651114
Phone: 00240-240185-86 (6 Lines)
Telex: 312400 INCO I
ISIRI: 0001-2000-14001 & CHSAS: 18001 Certified Refinery

Dec, 14th, 2006

TO WHOM IT MAY CONCERN

This is to certify that KEI Industries Limited has supplied 11 KV grade (UE) XLPE, IC X 630 sq. mm. Copper cable against PO NO. RBRM/M5E077/17452259 DTD. 17.08.2006

Quantity 2392 KM in 9 drums, vide KEI'S Invoice No. B 002556 30.11.2006

Presently all the 9 drums are kept in store after physical inspection at our store.

CC: Mr. Alok Saha
Dy. General Manager- Eastern India
KEI Industries Limited,
2/1 Kalibari Lane, Flat#1
Jadavpur, Kolkata - 700 032
West Bengal.

Barauni Refinery - In Harmony with Nature
वित्त अथॉरिटी ऑफ इंडिया लिमिटेड
वित्त अथॉरिटी ऑफ इंडिया लिमिटेड
वित्त अथॉरिटी ऑफ इंडिया लिमिटेड

M.P. HOUSING BOARD
Paryavas Bhawan,
Mother Teresa Marg,
Bhopal (M.P.)

No. /MPHB/08-09/ Dated, the 11/11/2008

Circular No. 31/08, Dated 18/11/2008

"KEI" Brand ISI Marked PVC Insulated Wires (Up to 1.1 KV Grade) as per IS 694-1990 manufactured by M/S KEI Industries Limited, D-90, Okhla Industrial Area, Phase-I, New Delhi-110020 is approved for use in the works of M. P. Housing Board for a period of one year on trial basis.

The approval given above does not absolve supervisory officers from their responsibility. These Insulated Wires should be used only if they satisfy about the quality & Specifications. The quality & performance standard shall be watched and deficiency if any should be intimated to Head Office immediately.

(V. S. Joshi)
Addl. Housing Commissioner,
M.P. Housing Board, H.O., Bhopal.

Encl. No. 5/11 /MPHB/08-09/ Dated the 11/11/2008
Copy to:-
1. The P.S. to Housing Commissioner, MPHB, H.O., Bhopal.
2. The Addl. Housing Commissioner, MPHB, H.O., Bhopal.
3. The Dy. Housing Commissioner, (T.Y. / A / M / C / GR Cell / E), MPHB, H.O., Bhopal.
4. The Chief Accounts Officer / Chief Audit Officer / Chief Architect, MPHB, H.O., Bhopal.
5. The Dy. Housing Commissioner, MPHB, Circle No-1 / 2 / 3 Bhopal / Indore / Gwalior / Ujjain / Jabalpur / Rewa.
6. The Executive Engineer, MPHB, Dn. 1-2-3-4-5 & 6 Bhopal / Hoshangabad / Sagar / Sagar Project / 1-2 Gwalior / Morena / Guna / Redensification Gwalior / Indore / Project Indore / Dhar / Khadwa / Ujjain / Ratlam / 1-2 Jabalpur / Balghat / Katni / Chhindwara / Rewa / Satna / Sidhi / Chattarpur / CSR Cell (H.O.), Bhopal.
7. The Executive Engineer (Elect), MPHB, Dn. Bhopal / Sagar Project / Indore / Jabalpur.
8. M/S KEI Industries Limited, D-90, Okhla Industrial Area, Phase-I, New Delhi-110020 with reference to their letter No. KEI/INTRO/2008, dated 17/07/2008.

Addl. Housing Commissioner,
M.P. Housing Board, H.O., Bhopal.

MDE
Mudali Shart ENGINEERING COMPANY LIMITED

4, BANDEE LANE, 2ND & 3RD FLOOR, KOLKATA - 700 001, INDIA
PHONE: +91 33 2550 0766 - 0768, 2513 8888 - 08, 2546 4867 / 0919
FAX: +91 33 2550 0766 / 0768
E-MAIL: mde@indiaonline.com
Website: www.mdeindia.com

TO WHOM IT MAY CONCERN

This is to certify that KEI Industries Limited has supplied 570 Meters of A2XWV, 11KV, 3 Core X 185 Sq.mm Cable against our P.O. No. 10286 dated 27.11.2006 for our Sarshatali Coal Washery Plant, A/C ICM, a subsidiary of CESC Limited.

The delivery & the quality assurances of this cable so far has been found to be Satisfactory.

As the Plant has not been commissioned till date, the Performance of this cable is yet to be ascertained.

K.N. BANERJEE
GENERAL MANAGER-ENGG

Member of HSB&S
CORPORATE & REGISTERED OFFICE: 4, BANDEE LANE, KOLKATA - 700 001

PRODUCT DIVISION:
P.O. BANARSHAHAR, DIST. DHANBAD, JHARKHAND - 826008
PH: (0654) 2899741/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20
FAX: (0654) 2899741/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20
E-MAIL: mde@indiaonline.com

SOUTHERN REGIONAL OFFICE:
PLOT No. 21-A, GOODRANGEPALLY INDUSTRIAL AREA, 500 046
MADHUPUR P.O. POST, BANGALORE - 560 046
PH: +91 80 2602 2048 / 2049
FAX: +91 80 2602 2111 / 2112

VINAY GUPTA

To whomsoever it may concern

This is certify that M/s. KEI Industries Limited, has supplied various HT XLPE Cables against our purchase order no.SEF/2839 Dated 02.09.2006 Details of cables

S.No.	Size of Cable	Voltage Grade	Qty (Km)
1	3 C X 185 SQ.MM	11KV (E)	42 Km.

Further, this to certify that cable had laid & commissioned. Performance of the cables found satisfactory.

You're faithfully,
 Vinay Gupta
 Director

For Swastika Electricals and Fertilizers

SWASTIKA ELECTRICALS & FERTILISERS
 Jaipur : Opp. Nandan Hostel, Malviya Ash Road, JAIPUR. Phone : 91-141-2361104/2374257 Fax : 2375276 E-mail : swastika01@hotmail.com
 New Delhi : 1101, Gird Tower, B-06, Netaji Subhash Place, New Delhi-34 Ph. / Fax : 91-11-4705503-04 E-mail : swastika02_delhi@hotmail.com
 Bangalore : 243, 2nd Floor, Adl Complex, Chickpet Main Road, Bangalore-560 053 Phone : 91-80-22386369 Fax : 91-8022910246

VINAY GUPTA

To whomsoever it may concern

This is certify that M/s. KEI Industries Limited, has supplied various HT XLPE Cables against our purchase order no.SEF/1097/2005-06 Dated 14.02.2006 Details of cables

S.NO.	Size Of Cable	Voltage Grade	Qty (KM)
1	3 C X 300 SQ.MM	33KV (E)	14 KM.
2	3 C X 300 SQ.MM	11KV (E)	2 KM.
3	3 C X 185 SQ.MM	11 KV (E)	25 KM
4	3 C X 50 SQ.MM	11 KV (E)	3 KM

Further, this to certify that cable had laid & commissioned. Performance of the cables found satisfactory.

You're faithfully
 For Swastika Electricals and Fertilizers

Vinay Gupta
 Director

SWASTIKA ELECTRICALS & FERTILISERS
 Jaipur : Opp. Nandan Hostel, Malviya Ash Road, JAIPUR. Phone : 91-141-2361104/2374257 Fax : 2375276 E-mail : swastika01@hotmail.com
 New Delhi : 1101, Gird Tower, B-06, Netaji Subhash Place, New Delhi-34 Ph. / Fax : 91-11-4705503-04 E-mail : swastika02_delhi@hotmail.com
 Bangalore : 243, 2nd Floor, Adl Complex, Chickpet Main Road, Bangalore-560 053 Phone : 91-80-22386369 Fax : 91-8022910246

मुंबई पोर्ट ट्रस्ट
MUMBAI PORT TRUST
 यांत्रिकी अभियंता विभाग
 MECHANICAL ENGINEERING DEPARTMENT

Code No. 602000430002

दुपचाई : 0050 5056
 फॅक्स : (91-22)2374 4277

मुख्य यांत्रिकी अभियंता का कार्यालय
 विमान घाट, पोर्चवा घाट,
 मागामा, मुंबई - ४०० ०१०, इंडिया

CHIEF MECHANICAL ENGINEER'S OFFICE,
 AIRMAN BHARAN 5TH FLOOR, MALZGACH,
 MUMBAI - 400 010, INDIA.

17 NOV 2009

No CMEF-2-G 23.2e

Is,
 KEI Industries Ltd.,
 H-103, Vastu Ship,
 Vastu Enclave,
 Andheri Pump House,
 Jijamata Road,
 Andheri (East),
 Mumbai - 400 093.

Dear Sir,
 Sub: Enlistment as an approved vendor for wires and cables.
 Ref: Your letter No. KEI/MUM/MP/1-2009 dated 25.09.2009.

With reference to your request of application, we are pleased to inform you that you are enlisted as one of the approved vendor for supply of wires and cables as described in the enclosed statement. The approval has been granted on the basis of documents / information furnished by you.

Mumbai Port Trust (MBPT) reserves the rights to revoke / suspend the aforesaid enlistment any time on the basis of periodic review.

This approval shall not bind MBPT to give you any priority or preference in the issue of enquiry and placement of purchase orders and does not guarantee that all or any of the enquiries for the products would necessarily be sent to you.

You are also requested to intimate to us changes, if any, in postal address, contact details, etc. from time to time.

Changes, if any, in the technical specifications, pricing, etc. shall also be intimated to MBPT from time to time.

Yours faithfully,
 PANKAJ KUMAR
 CHIEF MECHANICAL ENGINEER

DA - 1 Statement

मुंबई पोर्ट ट्रस्ट
MUMBAI PORT TRUST

STATEMENT ANNEXURE - I

Approval of 'KEI' brand cables for the use of MbPT for the following items.

Sr.No.	Description of Item
1.	Cable (Power) PVC insulated, PVC sheathed with flat strips/round wire Armoured 1 core, 2 core, 3 core, 3½ core, 4 core, 1100 volts grade/class copper conductor with ISI mark.
2	Core (Power) PVC insulated, PVC sheathed with flat/round wire Armoured 1 core, 2 core, 3 core, 3½ & 4 core, 1100 volts grade/ class, Aluminium conductor with ISI mark.
3.	Cable XLPE (cross linked Poly Ethylene), insulated Aluminium conductor in all sizes of 6.35 KV/ 11 KV/22 KV grade with ISI mark
4.	Control cable 1.5 mm2 and 2.5 mm2 solid strand PVC insulated and upto 61 cores PVC sheathed, Armoured and Unarmoured copper conductor with 1100 volts grade with ISI mark
5.	Cable welding having Ethylene Propylene Rubber (EPR) or Poly Chloroprene (PCP) insulation with copper conductor, (HOFR type) upto 50 mm2 size with ISI mark
6.	Instrumentation cable upto 50 pairs
7.	Wire PVC insulated without sheath, single core 1100 volts grade with copper conductor, solid or multistranded with ISI mark
8.	Wire flexible PVC insulated and PVC sheathed single core (multistranded) and multicore (multistranded) 1100 volts grade, copper conductor with ISI mark
9.	Wire PVC insulated and PVC sheathed single core 1100 volts grade, copper conductor with ISI mark

MAHARASHTRA JEEVAN PRADHIKARAN
OFFICE OF THE SUPERINTENDING ENGINEER (M)

Maharashtra Jeevan Pradhikaran
 Jalaram Compound, Kopari,
 Thane (East)

Telex 022/25321788(Office)
 E-mail semechmjp@thane@rediffmail.com

No./MJP/SE(M)/New Approval/312 /10. Date: 31.7.5 /2010.

To
 M/s.KEI Industries Ltd.,
 D-90, Okhla Ind.Area,
 Phase - 1 New Delhi-110020

Sub: Approval to "KEI" make cables in MJP.

Ref: 1) Your application for registration dated: 1.9.09

Dear Sir,
 With reference to above, Maharashtra Jeevan Pradhikaran is pleased to accord approval to "KEI" make various types of cables in MJP, manufactured at your Bhiwadi, Rajasthan plant as under.

	Details of manufacturer with location of factory address	Factory Address :
i)		M/s.KEI Industries Ltd., SP-919,920,922 Riico Industrial area, Phase-3, Bhiwadi 301019, Dist. Alwar (Rajasthan) Phone No-01493-220106/221731 Fax- No-01493-221732 E-mail-monoikei@satyamnet.in
ii)	Make	"KEI"
iii)	Product range	HT/LT Cables, sub cables, control cable
iv)	Validity	Up to 30.6.2013

For further continuation/upgradation please submit your application along with a demand draft of Rs 30,000/-for SSI or Rs 50,000/-for Medium /large Ind., in favour of "Maharashtra Jeevan Pradhikaran" of any nationalized bank payable at Mumbai only. Also submit following documents up to 31.5.2013.

Committee meeting - 37 -

1) Performance certificate of end user duly notarized and attested by your Co. from M.J.P./ Z.P./ G.S.D.A./M.I.D.C./CIDCO/MSEB or any such Corporate body (at least 3 certificates from Govt. Sector & two certificates from private sector.)
 2) Valid B.I.S. License certificates (photocopy.)
 3) Current Price list.
 4) Latest authorized dealers list for Maharashtra.

Please note the continuation will be withdrawn in case of failure to provide proper after sales service.

Thanking you.

Yours faithfully
 (Signature)
 Superintending Engineer (M)
 Maharashtra Jeevan Pradhikaran, Aurangabad/Nagpur/Nashik/Pune/Thane for favour of information please.

Copy submitted to the Chief Engineer, Maharashtra Jeevan Pradhikaran, Aurangabad/Nagpur/Nashik/Pune/Thane for information.

Copy forwarded with compliments to the Superintending Engineer (M), Maharashtra Jeevan Pradhikaran, Nagpur for information.

Copy forwarded with compliments to the (All) Superintending Engineer, Maharashtra Jeevan Pradhikaran Circle, for information and necessary action.

Copy to master file.

Committee meeting - 23 -

BSES

BSES Yamuna Power Limited
 Shakti Nagar, Block-10, Kirti Colony,
 New Delhi-110016, India
 Tel. : 11-261-9999
 Fax : 11-261-1837
 www.bses.co.in

A joint venture of BSES Limited with Govt. of NCT, Delhi

Date: 8th April 2010

TO WHOMSOEVER IT MAY CONCERN

This is to certify that KEI Industries Ltd, Now Delhi has successfully supplied full quantity of 10KM, 1CX1000 sq mm, 66 KV (E) AL/ XLPE / LEAD ALLOY SHEATH Cable against Purchase order No. D01/23034639 Dated 31.07.2009

The Quality and service offered by KEI Industries Ltd during execution of above order found satisfactory.

Out of 10 kms of cables supplied, 7.5 kms have been laid and charged. The cables are in operation and working satisfactorily.

(Signature)
 Devender Sharma
 Head (CES)
 B Block 3rd Floor
 Shakti Kiran Building
 Karkardooma
 New Delhi

GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT
CERTIFICATE OF PRODUCT APPROVAL

No. 12A / SS ASG / TABRS / dated 12.04.2017

The Assessment Committee constituted by the Government of Tamil Nadu under the Chairmanship of Engineer-in-Chief (Buildings), Public Works Department examined various aspects of the following products in its 55th meeting held on 22nd March 2017 and have accorded approval.

Products / Product Range : "KEI" Polyvinyl Chloride Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100V

Manufacturer / Company : M/s. KEI Industries Limited, Flat No.15, 1st Floor, Rama Apartment, No.88, (Old No.141) Eldama Road, Teyrnampet, Chennai-600018.

References : BIS License Number CML 7380172

Standards/ Specifications : IS 694:2016

Limitations : Approval is subject to validity and scope of BIS License for the product and compliance to the specification mentioned.

Test results produced at the time of approval should be adhered to.

Any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate should be notified to the Assessment Committee, PWD, Government of Tamil Nadu.

The certificate is valid from 12.04.2017 up to and inclusive of 11.04.2020 for a period of three years.

(Signature)
 Member Secretary, Assessment Committee & Superintending Engineer, PWD, Planning and Design Circle (Buildings), Chempak, Chennai - 600 005

KEI WIRES & CABLES

ONGC

Offshore Design Section,
Offshore Engineering Services
ISO: 9001-2008
OFFSHORE SUGGESTED VENDOR LIST
Rev 6.8 (April 03, 2015)

Plan No. 6.5
Discipline: A7
Page: 34 of 43

S.No	Product	Vendor Name	Country	Status
12	Lighting & Power Distribution Panel, AC DISTRIBUTION BOARD & DC DISTRIBUTION BOARD	1. Legrand (India)	India	On Hold
		2. India Kasa Switch Gear	India	
		3. Verulipati Circuit Breaker Mfg. Pvt. Ltd. Mumbai	India	
		4. BCI Electric Ltd	India	
		5. Reunion Engg Co. Mumbai	India	
		6. Fabcon, Mumbai	India	
		7. Siemens	Germany/India	
		8. JHI	Korea	
		9. Marine Electronics	India	
		10. HEECO	Korea	
		11. Schneider Electric India Pvt. Ltd.	India	
		12. Middle East Switch Gear Ltd	Shanghai	
13	Solar Power System	1. SunPower Corporation	USA/India	On Hold
		2. Universal Cables, Salem, MP	India	
		3. SMCAL	India	
		4. TFC Solar	India	
		5. Sunway	Australia	
		6. Sunspac	UK	
		7. SBC & I	Italy	
		8. SunPower Corporation	USA/India	
		9. Universal Cables, Salem, MP	India	
		10. SMCAL	India	
		11. Cable Corporation of India	India	
		12. Polycab	India	
14	Fire Survival Cables	1. Prysmian PowerLine Srl	Italy	On Hold
		2. Prysmian PowerLine Srl	Singapore	
		3. Associated Flexible & Wires Pvt. Ltd.	India	
		4. KEI Industries Ltd	India	
		5. Newera (Kulbong)	Korea	
		6. SSB Industries, Bangalore	India	
		7. Simon, Andhra	India	
		8. General Composite Pvt Ltd	India	
		9. TCS&K, Mumbai	India	
		10. Emsura	USA	
		11. Sunspac Pvt Ltd	India	
		12. Sunspac Pvt Ltd	India	
15	FRP Cable Trays	1. Sanyo Industries Ltd	India	On Hold
		2. Sanyo Industries Ltd	India	
		3. Sanyo Industries Ltd	India	
		4. Sanyo Industries Ltd	India	
		5. Sanyo Industries Ltd	India	
		6. Sanyo Industries Ltd	India	
		7. Sanyo Industries Ltd	India	
		8. Sanyo Industries Ltd	India	
		9. Sanyo Industries Ltd	India	
		10. Sanyo Industries Ltd	India	
		11. Sanyo Industries Ltd	India	
		12. Sanyo Industries Ltd	India	
16	Batteries (4-Cell)	1. AMCO Power System	India	On Hold
		2. PSB Power systems Ltd	India	
		3. Amara Raja Batteries Ltd	India	
		4. Amara Raja Batteries Ltd	India	
		5. Baliga Lighting Equipment	India	
		6. Viasara Electrical Mumbai	India	
		7. FCG Flame Proof Control Gears Pvt. Ltd.	India	
		8. FCG Flame Proof Control Gears Pvt. Ltd.	India	
		9. FCG Flame Proof Control Gears Pvt. Ltd.	India	
		10. FCG Flame Proof Control Gears Pvt. Ltd.	India	
		11. FCG Flame Proof Control Gears Pvt. Ltd.	India	
		12. FCG Flame Proof Control Gears Pvt. Ltd.	India	

Please refer the notes at the end of the list. # Indicates change from Rev 6.4 April 03, 2015

Life Insurance Corporation of India
Office of the Chief Engineer
25 Kasturba Gandhi Marg, New Delhi-110021

Engg/ Planning/ Approved Makes Dated: 01.09.2011

M/s KEI INDUSTRIES LIMITED,
D - 90, Okhla Industrial Area, Phase I,
New Delhi 110020,

Dear Sirs,

Reg: Enlistment of M/s "KEI Industries Ltd" for LIC works under Northern Zone

We are pleased to inform you that the Competent Authority has approved enlistment of your "K E I" make for PVC insulated multistrand wires, PVC insulated sheathed armoured cables, XLPE PVC insulated aluminium conductor cables under Northern Zone which includes Delhi, Haryana, Punjab, Himachal Pradesh, Rajasthan, Jammu & Kashmir areas.

The above approval has been granted initially for two years to be extended after getting feedback from our engineers. We will be free to test these products in any laboratory as per relevant ISI Codes. Your enlistment with LIC shall not bind LIC to give you any priority or preference in the issue of any enquiry & placement of purchase orders & does not guarantee that all or any of the enquiries for your products would necessarily be sent to you.

Yours faithfully,
[Signature]
Supply Engineer.

North Zone Office, Engineering Department, "Jeevan Prakash", 2nd Floor, 25, K.G. Marg, New Delhi-110021
Tel: 23444171, 23444180, Fax: 23444180, Telegram: "Jeevan Prakash", e-mail: n_z_engg@licindia.com

TAMIL NADU TRANSMISSION CORPORATION LTD,
CHENNAI DEVELOPMENT CIRCLE - 1
TANTRANSO, GUINDY, CHENNAI - 32

Scope of work: Supply, Jaying, Testing & Commissioning for a route length of 10.552 KM of 230KV, 1X1200sq.mm XLPE Aluminium UG cable and accessories, from 230 KV Ambattur Third Main Road SS to 230KV Thiruverkadu HGS SS, under Turnkey basis.

Name of the Contractor: M/s KEI Industries Limited, Okhla Indl Area, New Delhi-110020.

Work Order Ref: LOA No.: CE/TR/SE/THIRUVEKADU/AS/F-T-1827/A/OI-2646/D.25/15 dt. 26.02.2015.

This is to certify that M/s KEI Industries Limited, Okhla Indl Area, New Delhi-110020, India, have supplied the following materials as per the Contract and successfully test charged on 18.08.2017 and commissioned the feeder with load on 08.01.2018 satisfactorily. The above feeder is in service without trouble till date.

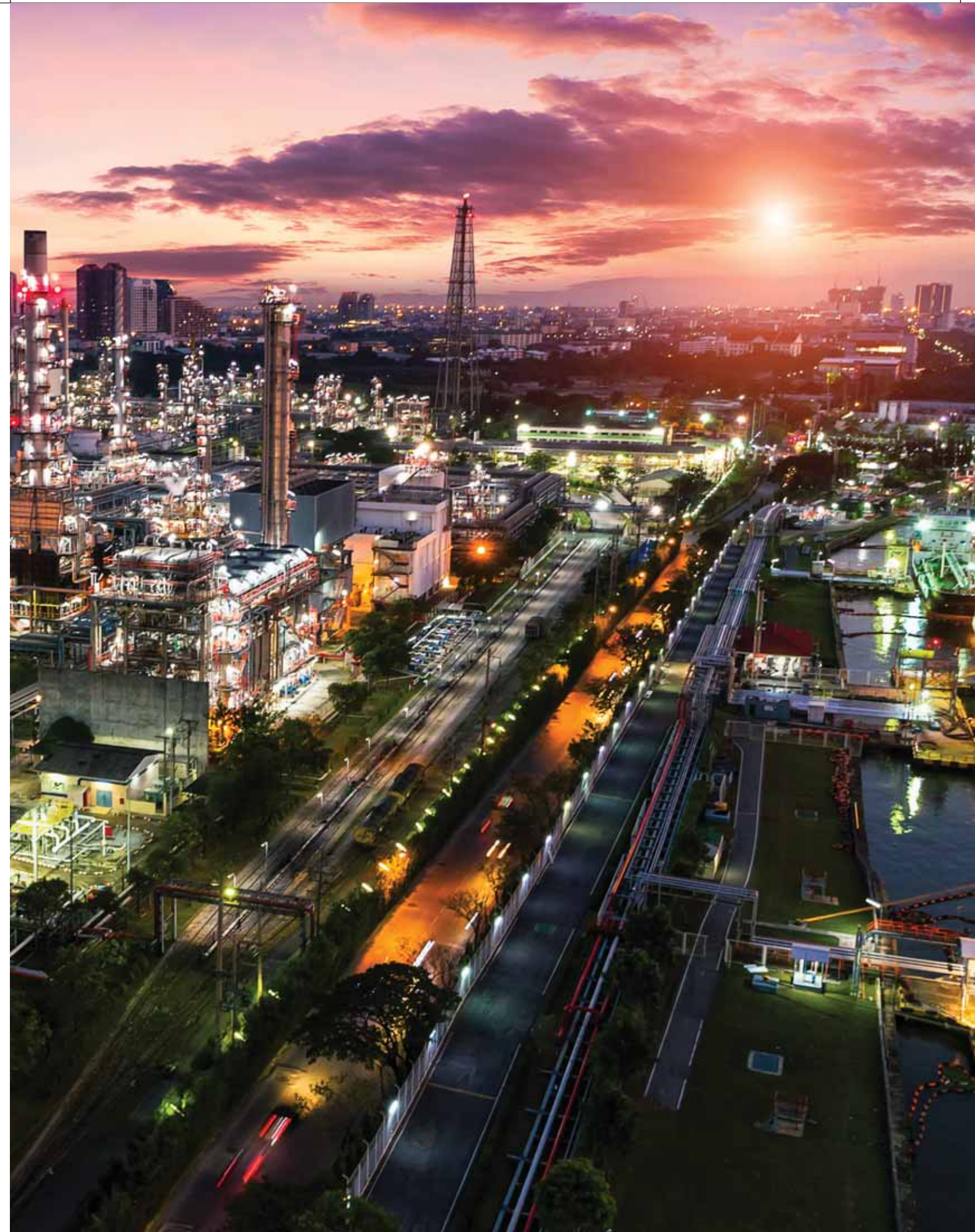
S.No	Items	Make	Quantities supplied
1	230KV, 1X1200 Sq mm, AL XLPE UG Cable	KEI	32238m
2	230KV, Normal Straight Through Joints	Brugg	54nos
3	230KV, Insulated Joints	Brugg	15nos
4	230KV, Outdoor Termination	Brugg	06 nos
5	Optical Fibre Cable (24 Fibre)	Akash	10893m

SUPERINTENDING ENGINEER
CDC I/TANTRANSO,
A-10,,Thiru.Vi.Ka.Industrial Estate,
Guindy/Chennai-600032.

TAMIL NADU HOUSING BOARD
CERTIFICATE OF PRODUCT APPROVAL
File No. QC/33979/2018 date 28.12.2018

The Chief Engineer (City), Tamil Nadu Housing Board has examined various aspects of the following products with reference to your letter No. Nil dated. 02.07.2018 and has accorded approval on 28.12.2018 on the following products in the works carried out by Tamil Nadu Housing Board Projects.

1. NAME OF THE COMPANY	::	M/s. KEI INDUSTRIES LTD
2. NAME OF THE PRODUCT	::	1. KEI WIRES, LT CABLES, HT CABLES
3. BIS LICENCE	::	1. BIS License No.CML/ 7380172 dated 06.07.2018 Valid up to 30.06.2019 2. BIS License No.CML/ 7566489 dated 10.10.2017 Valid up to 28.9.2019. 3. BIS License No.CML/ 8738194 dated 11.10.2017 Valid up to 31.07.2019.
4. STANDARD SPECIFICATION	::	1. IS 684:2010 2. IS 7098: Part 1 1988 3. IS 7098: Part 2 2011
5. PWD APPROVAL	::	1. PWD No. 13A/55 ASC/TABRS/dated 12.04.2017 valid up to 11.04.2020 2. PWD No. 13B/55 ASC/TABRS/dated 12.04.2017 valid up to 11.04.2020 3. PWD No. 13C/55 ASC/TABRS/dated 12.04.2017 valid up to 11.04.2020
6. TEST REPORTS	::	1. Test Report obtained from ERADA vide test report No.RP-1516-012207 dated 30.06.2015 2. Test Report obtained from ERADA vide test report No.ICWRW00912507-a dated 21.04.2012. 3. Test Report obtained from CPRI vide test report No.CPRI/TCL2014T215 dated 29.01.2015. 4. Test Report obtained from CPRI vide test report No.CPRI/TCL2014T215 dated 29.01.2015.



INTEGRATED COAL MINING LIMITED
 6, Church Lane (1st Floor), Kolkata - 700 001
 Telephone No: (033) 2510 8588/82 (5 Lines)
 Fax: (033) 2510 9556
 E-mail: info@icml.co.in

ICMLWO/07910-11 Date: 27th September, 2010

KEI Industries Ltd.
 33, Dr. Sardar Mohan Avenue, 1st Floor
 Kolkata-700014

WORK ORDER

Sub: Power Supply arrangement at Sarhatal Open Cast Mines - Supply of HT, LT and Control Cables

Ref: 1) Our NPO no. ICML/UG.H.L./J/2010-11 dated 07.06.2010 for HT, LT and Control Cable
 2) Our Specification no. TCE/5967A-EL-PCA-730-01
 3) Your offer no. KEI-KOL/ICML/10-11/O-135(R) dated 24.08.2010 for supply of HT, LT and Control Cables
 4) Final negotiation meeting held on 18.09.2010
 5) Your revised offer no. KEI-KOL/10-11/ICML/O-135R dated 18.09.2010 based upon Negotiation meeting held on 18.09.2010 for supply of HT, LT and Control Cables

Dear Sirs,

With reference to the above, this is to convey the acceptance of your offer for supply of HT, LT and Control Cables as per our tender specification and BOQ and settled terms & conditions in connection with Power Supply arrangement at Sarhatal Open Cast Mines:

I. SCOPE OF SUPPLY:
 HT, LT and Control Cables as per specification and BOQ attached in Annexure - 1

II. SUMMARY OF PRICES

Sl. No	Description	Amount (Rs)
1	a. Total Price for the supply of HT, LT and Control Cables as per specification and BOQ attached in Annexure - 1 inclusive of taxes, duties and freight & insurance charges.	1,36,46,569
	TOTAL	1,39,48,668

(Rs. One Crore Thirty Nine Lakh Forty Eight Thousand Five Hundred and Sixty Nine only)

PMCH HEALTH ADVISORS
 White Ka Bedia, Amritsar, NP 70, Udaipur

Ref:-PMCH/14-15/1234 Date: 19/03/2015

TO WHOMSOEVER IT MAY CONCERN

Performance Certificate

This is to certify that M/s KEI Industries Ltd D-90 Okhla Industrial Area, Phase-I, New Delhi-110020 has supplied FR (Homecab) wire, Multicore flexible, LT Control & Power cables, HT Cables for a value of nearly 3.5 crore against our various purchase orders for our Pacific Medical College & Hospital, Bhillo Ka Bedia, Udaipur (Raj.) and Pacific Institute of Medical Sciences, Umerda, Udaipur (Raj.) during 2012 to 2015.

The performance of their Product (Wires & Cables) is satisfactory and there is no adverse report against the product so far.

(Rahul Agarwal)
 Secretary

PACIFIC MEDICAL COLLEGE & HOSPITAL
 (Promoters: Tirumala Raju Educational Trust)
 4, Nataraj Street / Phase - 1, P.O. 500001, Udaipur, India / Tel: +91 884 0000000
 Email: pmch@pmch.co.in

LIC
 LIC Insurance Company Ltd.
 LIC Building, 1st Floor, Market Street, Chennai - 600 009

Ref: Engg/WZO/Elect. dt: 23.08.2013

M/s KEI Industries Limited
 101/102/103 Vastu Ship Vastu Enclave
 Jijamata Road
 Andheri Pump House
 Andheri (East)
 Mumbai 400 093

Dear Sir

Re: Approval of 'KEI' brand wires and cables

We are pleased to inform you that as per your request the competent authority has approved inclusion of 'KEI' brand of wires and cables in our approved list of electrical materials to be used in our works under Western Zonal Office which consists state of Maharashtra, Gujarat and Goa.

You are requested to be in touch and forward us the latest price lists and updation if any in terms of product/range/prices etc. from time to time.

Yours faithfully
 Dy. Chief Engineer

When bills within "range", then the bill, pd - 400 001
 When bills within "range", then the bill, pd - 400 001
 When bills within "range", then the bill, pd - 400 001

KSEB
KERALA STATE ELECTRICITY BOARD LIMITED
 (O/o the Executive Engineer, Transmission Division, Kazhakkottam, Kazhakkottam P.O., Thiruvananthapuram)
 Phone: 0471-2414838, 9446008107. E-mail - ceitdptvm@ksel.in

PERFORMANCE CERTIFICATE

Certified that M/S KEI INDUSTRIES LTD, D-90, PHASE-I OKHLA INDUSTRIAL AREA NEW DELHI - 110 020 has successfully completed the supply, laying testing and commissioning of the cable 33 KV 3 C X 300 sq mm XLPE UG cable QTY-24.518 KMs along with accessories like Pre-moulded type straight joints, Pre-moulded type outdoor end terminations Turn-key basis on July-2013. The work was awarded to M/S KEI by the Chief Engineer (Transmission South), VB, TVM. Vide W.O. No. 4/CE(TS)/2012-13 Dt 3-08-2012 for our Sub Transmission Project from 110 KV substation NEDUMANGAD to VITHURA (IISER CAMPUS) Substation under this Division

The above 33 KV UG XLPE Cable system has been charged and working satisfactorily since October 2013.

Kazhakkottam
 Dt: 22.01.2015

(Signature)
 EXECUTIVE ENGINEER

OFFICE OF THE EXECUTIVE ENGINEER
 TRANSMISSION DIVISION - KAZHAKKOTAM

15

APPROVED MAKE OF MATERIALS AND EQUIPMENTS
 THE MATERIALS/EQUIPMENTS TO BE INCORPORATED IN THE WORKS SHALL CONFORM TO ANY OF THE FOLLOWING APPROVED MAKES.

1. Transformers	Compton/ Karolika/ITL/ Valspar/ KEI/ Bharat/ INTRANS/ TELKA/ AREVA
2. HT Breaker Panel	Schneider Electric/ Compton/ General/ Jyoti/ Laxmi/ ABB/ Larsen/ Siemens/ Laxmi/ Arva
3. Ring Operating Switches	Metropolis/ Truse Electrical/ Golden
4. Lighting Arrestors	W B Insulators/ KEI/ Larsen/ Arava/ Schneider Electric
5. Moulded Case Circuit Breakers (MCCB)	Larsen & Toubro/ GE Power/ Schneider/ Control & Switch/ GARDNER/ ASIAN/ ARV/ Siemens
6. Air Circuit Breakers	Larsen & Toubro/ Siemens/ Control & Switch/ GE Power/ Schneider Electric/ ABB
7a) Lighting Fixtures (Indoor)	Philips/ Compton/ Bajaj/ GE/ lighting/ Wipro/ Aarav/ K. Sri
7b) Lighting Fixtures (Outdoor)	Bajaj/ Compton/ GE lighting/ Philips/ Wipro/ K- No/ Pandita
8. Fluorescent tubes/ lamps	Philips/ GE/ Wipro/ OSRAM/ Sanyo
9. Switch fuse units and isolators	Compton/ Siemens/ Larsen & Toubro/ Cutler Hammer/ Control and Switch Gear/ ELCON/ Schneider Electric/ ABB/ GE/ Arava/ Laxmi/ Arva
10. Changer Switches	Control and Switch Gear/ ELCON/ Schneider Electric/ GE/ Arava/ Laxmi/ Arva
11. Metal clad switch with sheet and enclosure (Industrial type)	Compton/ Cutler Hammer/ Larsen/ Havell/ VCB Power/ Schneider/ L&T/ Siemens/ Control & Switch Gear/ ABB/ Laxmi/ Arva
12. Copper conductor PVC insulated wires (with ISI mark)	Cable/ Finolex/ Havell/ L&T/ Laxmi/ Arva
13. Aluminium conductor PVC insulated wires (with ISI mark)	SREE/ Ravi/ C&W/ W&N/ Cable/ Polysar/ Laxmi/ Bharat
14. Minimum Circuit Breakers	MEYBADA/ Arava/ Schneider Electric/ ABB/ L&T/ Havell/ Siemens/ Legrand
15. HT/LV Control Cables	Glens/ RFG/ Arava/ Universal/ ICL/ INCAN/ NICCO/ Havell/ V. Kulkarni/ Powermate/ VCB/ Cable/ KEI
16. Telecommunication Cables	HCL/ DELTA/ VSNL/ Finolex/ Karnataka Telephone cables/ Bharama/ Havell's
17. Fan Fixtures	Compton/ Larsen/ Almond/ Uda/ Bajaj/ Orient
18. Steel Conduits	Any make with ISI mark (ISI certification)

FOR ISSUING OFFICER: (Signature)
 SIGNATURE OF CONTRACTOR: (Signature)

ONGC Offshore Design Section Engineering Services ISO - 9001:2008

CORRESPONDENCE WITH EXTERNAL AGENCY PAGE: 1 OF 1

Vendor Cell & QA, Offshore Design Section, Engineering Services, 6th floor, ONGC 11-High, Bandra-Sion Link Road, Mumbai - 400017

Telephone No: 022 24089618
 E-mail: badole.vendorcell@gmail.com, badole_dhananjay@ongc.co.in

From: Dhananjay Badole, SE(M)
 File Ref: ONGC/Vendor cell/Electrical/253/A
 Date: 14.01.2011

To: M/s KEI Industries Ltd, India D-90, phase-1, Okhla Industrial Area, New Delhi 110020
 Email: mano@kei@siiv.com, pramoda.shetty@kei-ltd.com

Sub: ONGC Vendor Enlistment for Suggested Vendor List of Offshore Engineering Services - Evaluation of Pre - Qualification Documents submitted by M/s KEI Industries Ltd, India for Fire Survival Cable

Dear Sir,

This has reference to the Pre - Qualification Documents submitted in ONGC. The documents were evaluated and we have much pleasure in informing you that M/s KEI Industries Ltd, India is found to be technically acceptable and has been approved as a probable vendor for the supply of Fire Survival Cable.

The name of M/s KEI Industries Ltd, India will be included in the next revision of the suggested vendor list of Offshore Engineering Services.

Best regards,
 (Signature)
 Dhananjay Badole, SE (M)
 Vendor Cell & QA,
 Offshore Design section,
 Offshore Engineering Services,
 11 High, Mumbai 400017

JAWAHARLAL NEHRU PORT TRUST
 BY SPEED POST
 5

KEI Industries Ltd.
 D-90, Phase - 1, Okhla Industrial Area,
 New Delhi - 110 020

Ref: Renewal of Vendor- Reg.
 Registration No.: 833A - Cables (All Types)

Sub: Renewal of Vendor- Reg.
 Registration No.: 833A - Cables (All Types)

1. पंजीकरण संख्या (इसका अर्थ है कि यह पंजीकरण संख्या है)	833A
2. इस पंजीकरण संख्या के तहत पंजीकरण किए गए हैं (विवरण)	Cables (All Types)
3. पंजीकरण की तिथि	A
4. पंजीकरण की तिथि	30/06/2020 तक

पंजीकरण संख्या (इसका अर्थ है कि यह पंजीकरण संख्या है) 833A
 इस पंजीकरण संख्या के तहत पंजीकरण किए गए हैं (विवरण) Cables (All Types)
 पंजीकरण की तिथि A
 पंजीकरण की तिथि 30/06/2020 तक

www.jnpt.gov.in

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APPROVED MAKE OF MATERIALS AND EQUIPMENTS
THE MATERIALS/EQUIPMENTS TO BE INCORPORATED IN THE WORKS SHALL CONFORM TO ANY OF THE FOLLOWING APPROVED MAKES.

1 Transformer	Crompton/ Kirloskar/ITL/ Voltamp/ KEI/ Bharat/ Intrans/ TEL/ AREVA
2 HT Breaker Panel	Schneider Electric/ Crompton/ GE/ABB/ Lincos/ ABB Limited/ Siemens Limited/ Asea
3 Gang Operating Switches	Metropolitan/ Trans Electrical/ Golden
4 Lighting Arrestors	W.S. Industries/ KEI/ Lanco/ Asea/ Schneider Electric
5 Moulded Case Circuit Breakers (MCCB)	Larsen & Toubro/ GE Power/ Schneider/ Control & Switch Gear/ HINDO ASSAN/ABB Systems
6 Air Circuit Breakers	Larsen & Toubro/ Siemens/ Control & Switch Gear/ GE Power/ Schneider Electric/ ABB
7(a) Lighting Fixtures (Indoor)	Philips/ Crompton/ Bajaj/GE Lighting/ Wipro/ Asian/ K-ite
7(b) Lighting Fixtures (Outdoor)	Bajaj/ Crompton/ GE Lighting/ Philips/ Wipro/ K-ite/ Pavilion
8 Fluorescent tubes/ lamps	Philips/GE/Wipro/OSRAM/Sigma
9 Switch fuses and isolators	Crompton/ Siemens/ Larsen & Toubro/ Carter/ Hammer/ Control and Switch Gear/ ELCON/ Schneider Electric/ ABB/ GE/ Asea/ Indo Asian
10 Changeover Switches	Control and Switch Gear/ ELCON/ Schneider Electric/ GE/ Asea/ Indo Asian
11 Metal clad switch with steel mesh enclosure (Industrial type)	Crompton/ Ciba-Haworth/ Tames/ Havell/ VBE/ Power/Schneider/ L&T/ Siemens/ Control & Switch Gear/ ABB/ Indo Asian
12 Copper conductor PVC insulated wires (with ISI mark)	Cable/ Finolex/ Havell/ V L&T/ Indo Asian
13 Aluminium conductor PVC insulated wires (with ISI mark)	SREE/ Ravi Cab/ WVN Cab/ Polycab/ Inada/ Hesco
14 Miniature Circuit Breakers	M&S/ Indo Asian/ Schneider Electric/ ABB/ L&T/ Havell/ Siemens/ Legrand
15 HT/LT Control Cables	Omnicable/PG-Asia/ Universal/ ICL/ INCAD/ NICCO/ Havell/ V L&T/ Ralfone/ Prinsab/CCU/ Gama/ Cab/ KEI
16 Telecommunication Cables	ICL/ DELTON/ Finolex/ Karnataka Telephone/ Adlan/ Document/ Havell/ V
17 Fan Fuses	Crompton/Chalder/Alumond/Unis/Relay/ Oriant
18 Steel Conductors	Any make with ISI mark (ISI certification)

Signature of Contractor

09/02/2011 12:29 FAX 0112011212 003 001

DIRECTORATE OF ELECTRICAL ENGINEERING

INTEGRATED HEADQUARTERS
MINISTRY OF DEFENCE (NAVY)
D-4 WING, SENA BHAVAN
NEW DELHI - 110 011
FAX : 011- 23011212

FAX MESSAGE

TO	M/S CABLE CORPORATION OF INDIA LTD, MUMBAI (ATTN: MR. SK DESHMUKH, MANAGER (SALES))	FAX NO	022-26144111/13/14
TO	M/S UNIVERSAL CABLES LTD, NEW DELHI (ATTN: MR. SANDEEP KUMAR, SR. MANAGER (MARKETING))	FAX NO	011-23711901
TO	M/S KEI INDUSTRIES LTD, NEW DELHI (ATTN: MR. DEEPAK MANCHANDA)	FAX NO	011-26911909
FILE	EE/03/0620	DATE	17 FEB 11
TOTAL NO. OF PAGES: ONE			

INFORMATION ON CABLES - INDIAN NAVY

- THE CABLES SUPPLIED TO INDIAN NAVY SHIPYARDS (FOR USE ONBOARD IN SHIPS) ARE REQUIRED TO BE STORED FOR CONSIDERABLE PERIOD (SOMETIMES EXTENDING TO 5-6 YEARS) PRIOR ONBOARD USE. FURTHER, THESE CABLES ARE REQUIRED TO PERFORM SATISFACTORILY FOR 20-25 YEARS DEPENDING UPON THE MAIN SYSTEM.
- AT PRESENT, THE CABLE MANUFACTURERS DO NOT SPECIFY SHELF LIFE/ TOTAL LIFE OF THE CABLE. EVENTHOUGH, IMPORTANT CABLE PARAMETERS LIKE INSULATION, RESISTANCE ETC ARE CHECKED BEFORE LAYING OF CABLES, SOME DEGRADATION IN CABLE PROPERTIES DUE TO EXTENDED STORAGE/ IMPROPER STORAGE CONDITIONS CANNOT BE COMPLETELY RULED OUT. IT IS THEREFORE INTENDED TO PROMULGATE GUIDELINES ON STORAGE/ REQUALIFICATION OF CABLES.
- IN VIEW OF THE ABOVE, IT IS REQUESTED THAT DETAILS/ COMMENTS REGARDING FOLLOWING BE FORWARDED TO HQ MOD(N)/DEE BY 20 FEB 11: -
 - RECOMMENDED MAX SHELF LIFE OF CABLE
 - EXPECTED TOTAL LIFE OF CABLE
 - RECOMMENDED STORAGE CONDITIONS
 - STORAGE PERIOD BEYOND WHICH REQUALIFICATION OF CABLES SHOULD BE UNDERTAKEN
 - RECOMMENDED PROCEDURE FOR REQUALIFICATION OF CABLES
- REGARDS.

DRAFTED BY: (SS SANDHU) COR

RELEASED BY: (A/CAPTAIN) CAPTAIN

TO WHOMSOEVER IT MAY CONCERN

DATED-05/04/2013

THIS IS TO CERTIFY THAT M/S KEI INDUSTRIES LIMITED HAVE D-90, OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI SUPPLIED THE FS CABLES FOR DMRC PROJECT, NEW DELHI VIDE PURCHASE ORDER NO. PO/M12-13/1339 DT. 27.12.2011, PO/M12-13/1460 DT. 22.01.2013, PO/M12-13/1537 DT. 07.02.2013, PO/M12-13/1668 DT. 27.02.2013, PO/M12-13/1746 DT. 12.03.2013, PO/M12-13/1805 DT. 19.03.2013,

A) FS CABLES SIZES ARE:-
2.5 SQ.MM, 4 SQ.MM, 6 SQ.MM, 10 SQ.MM, 16 SQ.MM, 25 SQ.MM, 35 SQ.MM.
APPROX QUANTITY SUPPLIED:- 99000 METERS.

FURTHER THIS TO CERTIFY THAT ABOVE QUANTITY OF CABLES HAVE BEEN LAID, COMMISSIONED & THEIR PERFORMANCE IS FOUND TO BE SATISFACTORY TILL DATE.

AUTHORISED SIGNATORY

PASCHIM GUJARAT VIJ COMPANY LIMITED
REGD. & CORPORATE OFFICE:- "PASCHIM GUJARAT VIJ SEVA SADAN"
OFF NANA MAVA MAIN ROAD, LAXMINAGAR, RAJKOT-360004
CIN U40102GJ200350C042908
Telephone Nos:- 0281-230425/427/2360182 Fax No:-0281-2368175
Website:- www.pgvcl.com E-mail:- prvc.zg@gmail.com

PGVCL/PROC/PERFORMANCE/

E-Mail: baroda@kei-ind.com 001373 19 AUG 2015

To,
KEI Industries Ltd,
B03, Siddharth Complex,
Near Hotel Express,
R.C. Dutt Road,
Vadodara - 390007

Sub:- Performance Certificate
Ref :- Your letter No. KEI/339/2015 dtd. 11.08.15

As per your letter under reference details regarding orders placed by PGVCL for mentioned items i.e. 11 KV AB Cable vide letter under reference, details are as under.

PO No.	Size	Order Qty.	Material supplied
PGVCL/RJT/Proc/e-58293/11 KV AB Cable/379/KEI/39 dtd. 16.07.12	3Cx70-70	181 KM	181 KM
PGVCL/RJT/Proc/e-58293/11 KV AB Cable/379/KEI/39 dtd. 16.07.12	3Cx95-80	10 KM	10 KM
PGVCL/RJT/Proc/e-79981/11 KV AB Cable/524/KEI/615 dtd. 16.05.14	3Cx95-80	90 KM	90 KM

This is for your kind information.

1/2 Chief Engineer (Material),
PGVCL, Corporate Office, Rajkot.

IRCON INTERNATIONAL LIMITED
Civil, Mechanical, Electrical, Communications and Tannery Contractors
(A Govt of India Undertaking)

NO. IRCON/ELECT/GEN/69
Date: 29th Jan' 2013

PERFORMANCE CERTIFICATE
TO WHOM IT MAY CONCERN

This is to certify that M/s KEI Industries Ltd., have supplied Copper FRLS type with XLPE Insulated cables, 1.545 Kms of 26 /45 KV Grade 1c x 240 sq.mm, 0.883 Kms of 18 / 30 KV Grade 3c x 400 sq.mm and 2.160 Kms of 1 c x 240 sq.mm 3.3 KV Grade cables as per IEC 60840 & IEC 60502 Part-2 against our Purchase Order No. IRCON/S010/DARC/ELECT/BE-B/HT CABLES/2R/B Dt. 08-06-2009 of Rs. 58,42,709.00 for Delhi Metro Rail Project, Contract BE-B.

The cables have been used and so far performance of the cables is satisfactory.

For IRCON INTERNATIONAL LTD

(Dr. Subhash Chand)
General Manager/Elect

IRCON INTERNATIONAL LIMITED
Civil, Mechanical, Electrical, Communications and Tannery Contractors
(A Govt of India Undertaking)

NO. IRCON/ELECT/GEN/69
Date: 29th Jan' 2013

PERFORMANCE CERTIFICATE
TO WHOM IT MAY CONCERN

This is to certify that M/s KEI Industries Ltd., have supplied Copper conductor XLPE Insulated FRLS Sheathed 9.225 Kms of 3.3 KV Grade Ue 1c x 630 sq.mm and 3.131Kms of 11 KV Grade (E) 3c x 300 sq.mm cables as per IS : 7098 Part-2 on 30-9-2007 against our Purchase Order No. IRCON/ELECT/S011/KM/C/CABLES/08 Dt. 12-7-2007 of Rs. 3,89,79,880.00 for Kolkata Metro Rail Project.

The cables have been used and so far performance of the cables is satisfactory.

For IRCON INTERNATIONAL LTD

(Dr. Subhash Chand)
General Manager/Elect

43285CMPT/ (447) /Des-2

RENEWAL OF PRODUCT APPROVAL

1. M/s KEI Industries Limited had approached this HQ for renewal of their products i.e. "KEI" Brand HT Cable upto & including 33 KVA, LT & Control Cables (Copper/Aluminium Conductor for XLPE/PVC) including Rubber and Instrumentation Cables, House Wires and Flexible Wires (Single Core & Multi Core) for use in Defence Works.

2. Approval in terms of policy letter No 43285CMPT/IE2 (Des-2) dated 15 Apr 2008 is hereby accorded for use of above mentioned products in Defence Works for a period of Three year ie upto 29 Jun 2017.

3. Further continuation of the products will be decided thereafter, based on the mandatory feed back/performance report submitted by Zonal Chief Engineers. In case anyone using the product notices any defect/inadequacy, the same will be reported immediately without waiting for the expiry of the period of three years.

4. The approval does not absolve the executive/supervisory staff from their responsibility for using correct quality product. It is only after they are satisfied about the quality and the performance, the product will be used. Mandatory checks about the quality will be carried out as laid down and the records of this same maintained.

5. A brief of the products along with a copy of the literature is enclosed. Further specifications/details of the product like drawings, samples etc can be obtained from the manufacturer at the address given below.

6. The firm is required to give feedback on sales/supply of approved items to MES Contractors/Formations/Units on six monthly basis as per format given below:-

S No	Name of Product	Supply to MES Contractor/ Formation/Unit	Location /Station	Date of Supply	Quantity Supplied	Amount (Rs)	Supply Order No	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)

7. The firm is required to submit a minimum of 05 No performance reports from the MES as per the format given opposite at the time of renewal, failing which their case will not be considered for renewal.

Address:-
M/s KEI Industries Ltd
D-90, Okhla Industrial Area Phase - 1,
New Delhi - 110020
Tele : 011-26818840/8542/0242
Fax : 011-26817225, 26811929
Email: deeppak.manchanda@kei-ind.com
Website: www.kei-ind.com

Contact Persons: Mr Deepak Manchanda, GM (BD) (Mob) 0993371825
Mr Puneet Kumar, Asst Manager (Mktg). (Mob) 09873045073
Copy to: Email: puneet.kumar@kei-ind.com

M/s KEI Industries Ltd
D-90, Okhla Industrial Area Phase - 1,
New Delhi - 110020

1. Please note that six monthly report is dispatched so as to reach this office on the first Monday of April and October every year. No supply/report will be assumed for the preceding six months in case of non-receipt of report.

2. Further renewal of the firm/product will be decided based on above inputs and feedback received from some/all of the MES units/formations concerned.

स्टील अथॉरिटी ऑफ इंडिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
दुर्गापुर इस्पात संयंत्र
DURGAPUR STEEL PLANT

DSP/PUR/PC/REGN/09-10/001 05.11.09

To,
M/s KEI Industries Limited,
33, Dr. Sandip Mohan Avenue
1st Floor, (Near Park Circus Ladies Park)
Kolkata-700 014

Sub: Inclusion of KEI make Cables as approved vendor upto 66KV Grade
Ref: Your request vide letter no.KEI/RQI-/DSP/NM/09-10/9-009 DATED 09.10.09

Dear Sir,

This has reference to your letter regarding approval of additional vendor for supply of HT/LT Cables in Expansion Programme of DSP.

DSP/MECON has examined your request. As KEI is registered with MECON and accepted by SAIL/DSP also, it is to inform you that KEI is accepted by DSP as additional vendor for supply of HT/LT Cables upto 66 KV Grade for projects in Expansion Programme of DSP.

Thanking you,

Yours faithfully,
(D. Mondal)
AGM (MM-PP)
Durgapur Steel Plant

Copy to:
M/s MECON 1A1, Ranchi-834002....Kind Attn: Sri Umesh Kumar

DURGAPUR STEEL PLANT
Asst. General Manager
(Production & Quality Control)
DURGAPUR-713200

भारत सरकार द्वारा स्थापित महाराष्ट्र राज्य सरकार
MAHARASHTRA GOVERNMENT
MAHARASHTRA GOVERNMENT

महाराष्ट्र
MAHADA

No.MH.CE-4EE-1A/ 496 (2014)
 Dated:- 25/07/2014

To,
M/S KEI Industries Limited
 101/102/103, Vantu Ship, Vantu Enclave, Andheri Pump House, Jijamata Road, Andheri (E), Mumbai-400 093.

Sub to: Approval of your product for use in MHADA Works.
Re:- Your letter No.KEI/MUM/DT/2013-14, Dated 02/06/2014

Sir,
 The following product manufactured by **M/S KEI INDUSTRIES LIMITED**, is hereby approved for use in the works under MHADA

" KEI " Brand 1) PVC Insulated Cables for working Voltages upto and including 1100 V IS: 694/1990 2) PVC insulated heavy duty electric cable (Part 1 for working voltage up to and including 1100V IS1554/Part-1) 1988 3) PVC insulated heavy duty electric cable (Part 2 for working voltage from 3.3 kv up to and including 11kv IS1554/Part-2: 1988 4) Crosslinked polyethylene insulated pvc sheathed cables Part 2 for working voltage from 3.3 kv up to and including 33kv IS 7098:Part 2:1985

The approval is given as per following terms & conditions.
 1. The validity of this endorsement is for one year on expiration basis from the date of issue of this letter. However, the MHADA reserves the right to cancel the same.

Yours Faithfully,
 Chief Engineer-I/A
 MHADA

पुणे: महाराष्ट्र सरकार, महाराष्ट्र राज्य सरकार, पुणे- 411 004.
 महाराष्ट्र: 411 004
 महाराष्ट्र: 411 004

Office: Mahada Bhawan, Kalyanagar, Bhandra (East), Mumbai-400 025.
 Phone: 6842 3000
 Fax No.: 622855 2050 Website: www.mhada.maharashtra.gov.in

be kept valid and any changes in the same shall be intimated to this office.

3. The approval has been granted on the basis of documents/ information furnished by you. The approval would be cancelled if any details are found in variance to the details already furnished during the inspection of manufacturing unit MHADA reserves the right to visit the manufacturing unit at any time.

4. The registration shall not bind MHADA to give you any priority or preference in the issue of enquiry and placement of purchase orders and does not guarantee that all or any of the enquiries for the above items would necessarily be sent to you.

5. The change in Postal address contact Phone No., Fax No., in the Constitution or working of your firm if any to be intimated to this office immediately.

6. The applicant has to obtain the revalidation by applying 30 days prior to expiry of this registration.

7. During the period of endorsement, if your company improve your product value by acquiring additional quality accreditations and/ or achieves better financial performance, then such changes shall be invariably informed to this office.

8. This approval will be renewed further on request of the firm & depending upon the performance of product on MHADA works.

P.W.D. Deptt., Govt. of Maharashtra,
 Bhamburda Bhawan, 3rd Floor,
 Marolli Nagar, Fort,
 Mumbai-400 001.

Website: www.mahagovt.com Telephone: (022) 2203413/16/17
 Email: mahagovt@mahagovt.com Fax: (022) 22018900
 No.111, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st, 32nd, 33rd, 34th, 35th, 36th, 37th, 38th, 39th, 40th, 41st, 42nd, 43rd, 44th, 45th, 46th, 47th, 48th, 49th, 50th, 51st, 52nd, 53rd, 54th, 55th, 56th, 57th, 58th, 59th, 60th, 61st, 62nd, 63rd, 64th, 65th, 66th, 67th, 68th, 69th, 70th, 71st, 72nd, 73rd, 74th, 75th, 76th, 77th, 78th, 79th, 80th, 81st, 82nd, 83rd, 84th, 85th, 86th, 87th, 88th, 89th, 90th, 91st, 92nd, 93rd, 94th, 95th, 96th, 97th, 98th, 99th, 100th, 101st, 102nd, 103rd, 104th, 105th, 106th, 107th, 108th, 109th, 110th, 111th, 112th, 113th, 114th, 115th, 116th, 117th, 118th, 119th, 120th, 121st, 122nd, 123rd, 124th, 125th, 126th, 127th, 128th, 129th, 130th, 131st, 132nd, 133rd, 134th, 135th, 136th, 137th, 138th, 139th, 140th, 141st, 142nd, 143rd, 144th, 145th, 146th, 147th, 148th, 149th, 150th, 151st, 152nd, 153rd, 154th, 155th, 156th, 157th, 158th, 159th, 160th, 161st, 162nd, 163rd, 164th, 165th, 166th, 167th, 168th, 169th, 170th, 171st, 172nd, 173rd, 174th, 175th, 176th, 177th, 178th, 179th, 180th, 181st, 182nd, 183rd, 184th, 185th, 186th, 187th, 188th, 189th, 190th, 191st, 192nd, 193rd, 194th, 195th, 196th, 197th, 198th, 199th, 200th, 201st, 202nd, 203rd, 204th, 205th, 206th, 207th, 208th, 209th, 210th, 211st, 212nd, 213th, 214th, 215th, 216th, 217th, 218th, 219th, 220th, 221st, 222nd, 223rd, 224th, 225th, 226th, 227th, 228th, 229th, 230th, 231st, 232nd, 233rd, 234th, 235th, 236th, 237th, 238th, 239th, 240th, 241st, 242nd, 243rd, 244th, 245th, 246th, 247th, 248th, 249th, 250th, 251st, 252nd, 253rd, 254th, 255th, 256th, 257th, 258th, 259th, 260th, 261st, 262nd, 263rd, 264th, 265th, 266th, 267th, 268th, 269th, 270th, 271st, 272nd, 273rd, 274th, 275th, 276th, 277th, 278th, 279th, 280th, 281st, 282nd, 283rd, 284th, 285th, 286th, 287th, 288th, 289th, 290th, 291st, 292nd, 293rd, 294th, 295th, 296th, 297th, 298th, 299th, 300th, 301st, 302nd, 303rd, 304th, 305th, 306th, 307th, 308th, 309th, 310th, 311st, 312nd, 313th, 314th, 315th, 316th, 317th, 318th, 319th, 320th, 321st, 322nd, 323rd, 324th, 325th, 326th, 327th, 328th, 329th, 330th, 331st, 332nd, 333rd, 334th, 335th, 336th, 337th, 338th, 339th, 340th, 341st, 342nd, 343rd, 344th, 345th, 346th, 347th, 348th, 349th, 350th, 351st, 352nd, 353rd, 354th, 355th, 356th, 357th, 358th, 359th, 360th, 361st, 362nd, 363rd, 364th, 365th, 366th, 367th, 368th, 369th, 370th, 371st, 372nd, 373rd, 374th, 375th, 376th, 377th, 378th, 379th, 380th, 381st, 382nd, 383rd, 384th, 385th, 386th, 387th, 388th, 389th, 390th, 391st, 392nd, 393rd, 394th, 395th, 396th, 397th, 398th, 399th, 400th, 401st, 402nd, 403rd, 404th, 405th, 406th, 407th, 408th, 409th, 410th, 411st, 412nd, 413th, 414th, 415th, 416th, 417th, 418th, 419th, 420th, 421st, 422nd, 423rd, 424th, 425th, 426th, 427th, 428th, 429th, 430th, 431st, 432nd, 433rd, 434th, 435th, 436th, 437th, 438th, 439th, 440th, 441st, 442nd, 443rd, 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AVINASH DEVELOPERS PVT. LTD.
 WINNITY BUSINESS PARK,
 NEWB CHOUTUPA PETROL PUMP,
 G.E. ROAD,
 RAIPUR

PURCHASE ORDER

Order No.: PRJ/MAT/1339 Date: 08-APR-2014

Supplier: KEI Industries Ltd. (K110)

Address: SURVEY No 9027 Madhuban Ind. Estate Vill Namad, Madhuban, Distra and Nagar Hav, India

Invoice No.: 1100001134

Invoice Date: 08-APR-2014

Invoice Time: 08:00:00 AM

Material Description: 11 KV HT CABLE 125 SQMM 3 CORE

Quantity: 200.000

Unit Price: 1,077.000

Amount: 215,400.000

Net Value (INR): 215,400.00

Net Amt (INR): 215,400.00

Terms & Conditions:
 (1) RATES ARE ED & VAT PAID
 (2) FOR TO SITE
 (3) JOB DETAILS SEND BY YOU

Prepared By: P. S. Chatterjee
 Authorized By: R. K. Wad
 BVP Purchase

BEC Bhilai Engineering Corporation Ltd 4/5 Industrial estate, Namdi Road Bhilai Chhattargarh INDIA 492028

PURCHASE ORDER

Order No. & Date: PRJ/MAT/1339 08-APR-2014

Supplier: KEI Industries Ltd. (K110)

Address: SURVEY No 9027 Madhuban Ind. Estate Vill Namad, Madhuban, Distra and Nagar Hav, India

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Prepared By: P. S. Chatterjee
 Authorized By: R. K. Wad
 BVP Purchase

JINDAL STEEL & POWER

PURCHASE ORDER

Order No. & Date: PRJ/MAT/1339 08-APR-2014

Supplier: KEI Industries Ltd. (K110)

Address: SURVEY No 9027 Madhuban Ind. Estate Vill Namad, Madhuban, Distra and Nagar Hav, India

Invoice No.: 1100001134

Invoice Date: 08-APR-2014

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Material Description: 11 KV HT CABLE 125 SQMM 3 CORE

Quantity: 200.000

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 BVP Purchase

JINDAL STEEL & POWER

PURCHASE ORDER

Order No. & Date: PRJ/MAT/1339 08-APR-2014

Supplier: KEI Industries Ltd. (K110)

Address: SURVEY No 9027 Madhuban Ind. Estate Vill Namad, Madhuban, Distra and Nagar Hav, India

Invoice No.: 1100001134

Invoice Date: 08-APR-2014

Invoice Time: 08:00:00 AM

Material Description: 11 KV HT CABLE 125 SQMM 3 CORE

Quantity: 200.000

Unit Price: 1,077.000

Amount: 215,400.000

Net Value (INR): 215,400.00

Net Amt (INR): 215,400.00

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Prepared By: P. S. Chatterjee
 Authorized By: R. K. Wad
 BVP Purchase

BEC Bhilai Engineering Corporation Ltd 4/5 Industrial estate, Namdi Road Bhilai Chhattargarh INDIA 492028

PURCHASE ORDER

Order No.: PRJ/MAT/1339 Date: 08-APR-14

Supplier: KEI Industries Ltd. (K110)

Address: SURVEY No 9027 Madhuban Ind. Estate Vill Namad, Madhuban, Distra and Nagar Hav, India

Invoice No.: 1100001134

Invoice Date: 08-APR-2014

Invoice Time: 08:00:00 AM

Material Description: 11 KV HT CABLE 125 SQMM 3 CORE

Quantity: 200.000

Unit Price: 1,077.000

Amount: 215,400.000

Net Value (INR): 215,400.00

Net Amt (INR): 215,400.00

Terms & Conditions:
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 (2) FOR TO SITE
 (3) JOB DETAILS SEND BY YOU

Prepared By: P. S. Chatterjee
 Authorized By: R. K. Wad
 BVP Purchase

BEC Bhilai Engineering Corporation Ltd 4/5 Industrial estate, Namdi Road Bhilai Chhattargarh INDIA 492028

PURCHASE ORDER

Order No.: PRJ/MAT/1339 Date: 08-APR-14

Supplier: KEI Industries Ltd. (K110)

Address: SURVEY No 9027 Madhuban Ind. Estate Vill Namad, Madhuban, Distra and Nagar Hav, India

Invoice No.: 1100001134

Invoice Date: 08-APR-2014

Invoice Time: 08:00:00 AM

Material Description: 11 KV HT CABLE 125 SQMM 3 CORE

Quantity: 200.000

Unit Price: 1,077.000

Amount: 215,400.000

Net Value (INR): 215,400.00

Net Amt (INR): 215,400.00

Terms & Conditions:
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 (2) FOR TO SITE
 (3) JOB DETAILS SEND BY YOU

Prepared By: P. S. Chatterjee
 Authorized By: R. K. Wad
 BVP Purchase

VANDANA GLOBAL LTD.

PURCHASE ORDER

Order No. & Date: PRJ/MAT/1339 08-APR-2014

Supplier: KEI Industries Ltd. (K110)

Address: SURVEY No 9027 Madhuban Ind. Estate Vill Namad, Madhuban, Distra and Nagar Hav, India

Invoice No.: 1100001134

Invoice Date: 08-APR-2014

Invoice Time: 08:00:00 AM

Material Description: 11 KV HT CABLE 125 SQMM 3 CORE

Quantity: 200.000

Unit Price: 1,077.000

Amount: 215,400.000

Net Value (INR): 215,400.00

Net Amt (INR): 215,400.00

Terms & Conditions:
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Prepared By: P. S. Chatterjee
 Authorized By: R. K. Wad
 BVP Purchase

Larsen & Toubro Limited, Construction.

PURCHASE ORDER

Order No. & Date: PRJ/MAT/1339 08-APR-2014

Supplier: KEI Industries Ltd. (K110)

Address: SURVEY No 9027 Madhuban Ind. Estate Vill Namad, Madhuban, Distra and Nagar Hav, India

Invoice No.: 1100001134

Invoice Date: 08-APR-2014

Invoice Time: 08:00:00 AM

Material Description: 11 KV HT CABLE 125 SQMM 3 CORE

Quantity: 200.000

Unit Price: 1,077.000

Amount: 215,400.000

Net Value (INR): 215,400.00

Net Amt (INR): 215,400.00

Terms & Conditions:
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Prepared By: P. S. Chatterjee
 Authorized By: R. K. Wad
 BVP Purchase

GETCO
GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED

Regd. Office: Sardar Patel Vidyut Bhavan, Race Course, VADODARA - 390 007
Corporate Identity No. U40100GJ1999GG036018
Telephone No. (0265)2310582/83/84/85, (D)2327482, Fax no. 2339086 (D)
Website: www.getco.in; Email: ceoprojects.getco@gmail.com

Ref. CE(P)/Proc./Vender Regn./III/KEI/1507 Date: 13.05.2015
REGISTRATION NO: 330R1 By **RPAD**

To,
M/s. KEI Industries Ltd,
SP-919/920, RIICO Industrial Area,
Phase - II, Bhiwadi,
Dist : Alwar : 301019
Rajasthan

Subject : Re-Registration as a Vendor.
Reference : Your letter dated 25.11.2014.

Dear Sirs,
With reference to the above, it is to inform you that subsequent to the factory inspection carried out by Mr. J. G. Chaturvedi, EE (QA&E), GETCO, CO, Vadodara inspection done 27.03.2015 factory located at SP-919/920, RIICO Industrial Area, Phase - II, Bhiwadi, Dist : Alwar : 301019, Rajasthan, it is decided to enroll your firm as 'Approved Vendor' for Supply and Manufacturer of following items :

- 66KV XLPE Cable upto 630 Sq. mm.

The above approval is subject to the following conditions.

- The registration shall be applicable to GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED only.
- The registration is subject to having valid license for documents related to manufacture / supply of material. Please note that it shall be renewed sufficiently in advance before expiry of valid documents submitted by you and will have to submit with the tender documents.
- The registration will not apply to any of your branches / offices.
- The registration on the approved list does not guarantee the award of contracts.

-- 2 --

MP HOUSING & INFRASTRUCTURE DEVELOPMENT BOARD
PARYAWAS BHAWAN MOTHER TERASA MARG, BHOPAL

Circular No. 18/14 Dated 23.7.2014

"KEI" Make HT XIPE, Cable up to 33KV, Power & Control Cable, Flexible wire Instrumentation Cable, Rubber Cable, Submersible Cable, Screen Cable, Thermocouple Cable manufactured by M/S KEI Industries Ltd., Okhla Industrial Area, Phase-I, New Delhi-110020, are approved for use on Housing Board projects.

The product approved for a period of two year from the date of issue of this circular.

The executive staff is directed to report the performance of the product to this office.

(S.K. Mehar)
Addl. Housing Commissioner,
M.P.H& I. Dev. Board Bhopal.

Endt. No. 1567/MPHB/ Bhopal, Dt. 25.7.14

- The Addl. Housing Commissioner, M.P.H& I. Dev. Board, H.O. Bhopal.
- The Dy. Housing Commissioner, M.P.H& I. Dev. Board, H.O. Bhopal.
- The Chief Account Officer / Chief Audit Officer / Chief Architect, M.P.H& I. Dev. Board, H.O. Bhopal
- The Dy. Housing Commissioner, M.P.H& I. Dev. Board, Circle 1 / 2 / 3, Bhopal / Indore / Gwalior / Ujjain / Jabalpur / Rewa / Elec.
- The Executive Engineer, M.P.H& I. Dev. Board Dn. 1 / 2 / 3 / 4 / 5 & 6 Bhopal / Hoshangabad / Sagar / Sagar Medical Project/ Gwalior 1-2 / Morena / Guna / Gwalior / Redensification / Delhi / Dhar / Khandwa / Indore / Indore/project Indore/ Ujjain / Ratlam/ 1-2, Jabalpur / Balaghat / Katni / Chhindwara / Rewa / Satna / Sidhi /Shahdol / Chhatrapur / CGR Cell, (HO), Bhopal
- The Executive Engineer (Elec.) M.P.H& I. Dev. Board Dn. Bhopal/ Sagar project/Indore/Jabalpur.
- M/S KEI industries Ltd., D-90, Okhla Industrial Area, Phase - I, New Delhi-110020.

Addl. Housing Commissioner,
M.P.H& I. Dev. Board Bhopal.

भारत सरकार GOVERNMENT OF INDIA
सर्व प्रयोग मंत्रालय MINISTRY OF LABOUR & EMPLOYMENT
सर्व सुरक्षा महानिदेशक DIRECTORATE GENERAL OF MINES SAFETY
दिल्ली क्षेत्रीय विद्युत सुरक्षा निदेशक ELECTRICAL CIRCLE
दक्षिण मध्य क्षेत्र, दक्षिण मध्य केंद्र, HYDRABAD
CGO Towers, 7th Floor, 47th, Kavadiguda, Secunderabad-500080
Telephone: 040-2751450; Fax: 040-2751250; e-mail: dgsa@dlm.gov.in

दिनांक: 23/07/2014/240 दिनांक: 23 July, 2015

From:
The Director of Mines Safety (Elec.)
South Central Zone,
7th Floor, CGO Towers,
Kavadiguda, Secunderabad - 500 080.

To:
M/s. KEI Industries Limited,
D-90, Okhla Industrial Area, Phase-I,
New Delhi - 110 020.

विषय: Permission for field trial of 1.1kV, 5 Core (3 Core x 35 mm² power core + 1 Core x 16 mm² pilot core + 1C x 16 mm² bare earth core) elastomeric insulated and sheathed flexible cable, type-FT-10 manufactured by M/s. KEI Industries Limited, New Delhi conforming to IS: 14494-1998 for use in belowground coal mines in India under Regulation 181(3) of the Coal Mines Regulations, 1957.

संदर्भ: HO Letter No.2075-78/EHQ, dated 12-9-2012 & Extension of Field Trial permission vide HO letter No. 79 dated 13.01.2015.

संदर्भ: The permission under reference has been extended up to 12.09.2015 vide above cited reference. The field performance report was already submitted to Head Quarters with reference to the above permission issued originally.

The present list of cable to be subjected under field trial shall be fully compliance with the recommendations to facilitate the required diameter and design suiting to the plug and socket arrangements of the machine and gate-end box.

You are requested to inform this office regarding conduct of field trial of above item immediately giving the following details.

- the name of the mine where the equipment has been installed for field trial purpose;
- its date of installation and
- purpose for which it is being used.

आपका विश्वासपूर्वक,
(S.K. Mehar) / G.L. Kanta Rao
सर्व सुरक्षा महानिदेशक (विद्युत) (Director of Mines Safety (Elec.))
दक्षिण मध्य क्षेत्र, दक्षिण मध्य केंद्र, Hyderabad.
आपका

Headquarters
Chief Engineer Jalandhar Zone
Military Engineer Services
Jalandhar Cantt-144005
01 Jun 2013

40015/ 626 JE4

Headquarter
Commander Works Engineers
Jalandhar Cantt

Headquarter
Commander Works Engineers
Amritsar Cantt

Headquarter
Commander Works Engineers
Ferozpur Cantt

APPROVAL OF PRODUCTS

- M/s KEI Industries Limited, New Delhi has approached this HQ for introduction of their products for use in Defence Works vide their letter No KEIMKTG/2012-13/ dated 15.05.2013.
- The name of the firm for All type of electric wire and cables i.e. multistrand single core copper wire, multi-core flexible copper, submersible cables and all LT and HT cable aluminium and copper cable hereby approved in CE Jalandhar Zone for a period of two years.
- Further continuation of the products will be decided thereafter, on the basis of the mandatory feedback/performance report submitted by Zonal Chief Engineers. In case anyone using the product notices any defect/discrepancy, the same will be reported immediately without waiting for the expiry of Two years.
- The approval does not absolve the executives/supervisory staff from their responsibility for using correct quality product. It is only after they satisfied about the quality and the performance of the product will be used. Mandatory checks about the quality will be carried out on laid down and the records for the same maintained.
- Further specification/details of products can be obtained from the manufacturer at the address given below:-

M/S KEI Industries Limited
D-90, Okhla Industrial Area,
Phase-I,
New Delhi -110020

(A.R. Rishi)
AAD/EM
For Chief Engineer

Copy to:-
M/S KEI Industries Limited
D-90, Okhla Industrial Area,
Phase-I,
New Delhi -110020

Division IV(O&M), Vidhyut Bhavan, 3rd Floor,
Aquem-Margao-Goa.

Tel/Fax :- 0832-2735496 E-mail:- ceivgoa@gmail.com

No. EE-IV/O&M/Tech-Tender 09(11)/66/2011-12 Dated:- 20/12/2011.
By Regd AD

ACCEPTANCE LETTER

To,
M/s KEI Industries Ltd,
101/102/103, Vastu Shilp, Vastu Enclave,
Andheri Pump House, Jijamata Road,
Andheri(E), Mumbai - 400 093.

Name of work:- Supply of 40 Kms of 33 KV(E), 3C, 400 sq.mm, armoured, Aluminium XLPE Cable Type A2XWY for Elect. Dept., Govt. of Goa, Division IV, Margao, Goa. (05/11).

Tender No.:-

Ref:-

- Your offer No. KEI/MUMQ-0989/2011-12 dtd 18.08.2011.
- Your financial offer No. KEI/MUMQ-0989/2011-12 dtd 18.08.2011
- Y.L. No. MUM/KEEQ-0989/1/2011 dtd 30.09.2011.
- EE-IV/O&M/Tech-Tender 09(11)/5320/10-11 dtd 14.10.2011.
- Y.L. dtd 27.10.2011.
- Y.L. dtd 12.12.2011.

Sir,
In pursuance to the approval of the Goa State Works Board (GSWB) conveyed to this office, your offer has been accepted on behalf of the Governor of Goa for supply of 40 Kms of the above cited cable as per specifications in NIT document at the negotiated rate of ₹ 2420/- per meter for a total amount of ₹ 9,68,00,000/- (Rupees Nine Crores Sixty Eight Lakhs only). The tendered amount is at par with the estimated cost. The accepted rate schedule for the supply order is enclosed herewith as Annexure I.

You are requested to,

- submit performance guarantee of ₹ 48,40,000/- (Rupees Forty-Eight Lakhs Forty Thousand only) within 15 days of issue of this letter i.e. by 03.01.2012. The performance guarantee shall be in the form of Demand Draft / cheque drawn on any scheduled Bank guaranteed by Reserve Bank of India payable at Margao in favour of the "Executive Engineer, Division-IV(O&M), Electricity Department, Margao-Goa", or in the form

OFFICE OF THE CHIEF ENGINEER, HUDA-C-3, SECTOR-6, PANCHKULA

To
M/S KEI Industries Ltd,
D-90, Okhla Industrial Area,
Phase-I, New Delhi-110020

Memo No. CE/EE (EYADM/E)2015/5791 Dated: 20/12/11

Subj: Approval of "KEI" brand ISI marked Cables/Wires (upto 220 KV Voltage level) i.e. Flexible Wires, Flat Cables, Instrumentation Cables/Singal Cables, Rubber Cables, Aerial Bunched Cables, LT & HT Cables for use on electrical works of HUDA.

Ref:- Your letter Ref. No. KEI-IND-5/mem/2015-16 dated 20.04.2015 on the above subject.

As requested vide your letter cited under reference, your product i.e. "KEI" brand is approved for ISI marked wires & electrical cables as mentioned in subject for electrical works of HUDA for a period of one year w.e.f. date of issue of this letter subject to following terms & conditions:-

- The approval of ISI/ISO marked products shall be valid till the validity of ISI/ISO certificate. The firm shall get their ISI/ISO certificate renewed from time to time. As soon as the ISI/ISO certificate expires, the approval of above mentioned product shall be automatically considered as withdrawn.
- In case the companies/firms change their name/brand name of the product, same shall be intimated immediately other wise the approval shall be withdrawn as soon as it comes to the notice of department. In case approved models are discontinued or replaced with new models, this approval of that product shall be considered automatically withdrawn. New model shall have to be got approved a fresh.
- This approval can be withdrawn at any time without assigning any reason.
- The firm shall ensure that there will be no difference in quality, design, shape between the approved products and in case, any change in quality, design, shape of the product is apprehended, the department should be informed immediately. Further the firm shall maintain the quality of standards of its products range in conformity with the document already submitted, failing to do so will lead to the cancellation of this approval.
- The firm shall stand a warranty to replace every/any items of its product range if found damaged/defective/not as per site requirement where so ever and any need arises at the later stages without any conditions and without any liability on our part.
- The firm shall assist the department on account of genuine trade marking, if any need arises for its confirmation at later stage.
- The price list/minutes/drawings should be sent to the department periodically as and when revised by the firm.
- The department reserve the rights to get any product tested at any time without any intimation to the firm and in case the quality of product supplied by the firm direct to the department or through any other source is not found genuine, the same shall have to be replaced with the genuine quality product free of cost and also this approval can be withdrawn and the firm can also be black listed for future.

(S.K. Mehar)
Executive Engineer (E),
For Chief Engineer, HUDA,
Panchkula

C.C. to:- The Executive Engineer, Elect. Division, HUDA Panchkula (Houd. Faridabad/Robtak) Gurgaon for information & necessary action. They shall intimate immediately if there is anything adverse to say regarding working performance etc. of this product.

भारत सरकार GOVERNMENT OF INDIA
सर्व प्रयोग मंत्रालय MINISTRY OF LABOUR & EMPLOYMENT
सर्व सुरक्षा महानिदेशक DIRECTORATE GENERAL OF MINES SAFETY
दिल्ली क्षेत्रीय विद्युत सुरक्षा निदेशक ELECTRICAL CIRCLE
दक्षिण मध्य क्षेत्र, दक्षिण मध्य केंद्र, HYDRABAD
CGO Towers, 7th Floor, 47th, Kavadiguda, Secunderabad-500080
Telephone: 040-2751450; Fax: 040-2751250; e-mail: dgsa@dlm.gov.in

दिनांक: 23/07/2014/240 दिनांक: 23 July, 2015

From:
The Director of Mines Safety (Elec.)
South Central Zone,
7th Floor, CGO Towers,
Kavadiguda, Secunderabad - 500 080.

To:
M/s. KEI Industries Limited,
D-90, Okhla Industrial Area, Phase-I,
New Delhi - 110 020.

विषय: Permission for field trial of 1.1kV, 5 Core (3 Core x 35 mm² power core + 1 Core x 16 mm² pilot core + 1C x 16 mm² bare earth core) elastomeric insulated and sheathed flexible cable, type-FT-10 manufactured by M/s. KEI Industries Limited, New Delhi conforming to IS: 14494-1998 for use in belowground coal mines in India under Regulation 181(3) of the Coal Mines Regulations, 1957.

संदर्भ: HO Letter No.2075-78/EHQ, dated 12-9-2012 & Extension of Field Trial permission vide HO letter No. 79 dated 13.01.2015.

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The present list of cable to be subjected under field trial shall be fully compliance with the recommendations to facilitate the required diameter and design suiting to the plug and socket arrangements of the machine and gate-end box.

You are requested to inform this office regarding conduct of field trial of above item immediately giving the following details.

- the name of the mine where the equipment has been installed for field trial purpose;
- its date of installation and
- purpose for which it is being used.

आपका विश्वासपूर्वक,
(S.K. Mehar) / G.L. Kanta Rao
सर्व सुरक्षा महानिदेशक (विद्युत) (Director of Mines Safety (Elec.))
दक्षिण मध्य क्षेत्र, दक्षिण मध्य केंद्र, Hyderabad.
आपका

STEEL AUTHORITY OF INDIA LTD.
ALLOY STEELS PLANT, DURGAPUR

MATERIALS MANAGEMENT DEPARTMENT

Tel : 0343-2545301 Fax : 0343-2545301
E-mail : sardar@steelauthority.co.in
Website: www.steelauthority.co.in

Ref : AEP/PM/CO-GRD/VA/2013/384/9 Date : 27/04/13

To,
KEI Industries Ltd.,
D-90 Okhla Industrial Area,
Phase-I, New Delhi-110020.

Subj: Registration of Vendors

With reference to your application for registration with ASP, we are pleased to inform you that you have been included as Registered vendor with us as per certificate enclosed.

Kindly acknowledge receipt.

(S. Singh)
Asst. General Manager (MMP-SS)
For General Manager (GM)

Encl: 1 no.Registration Certificate

KEI WIRES & CABLES



Dated 09.01.2014

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s KEI Industries Limited is our preferred vendor for supply of HT, LT, Instrument and Control, Fire Survival Cables and Special Cables for all our projects.

We have found KEI meeting our requirement of High Quality Standards, Timely Deliveries, Competitive and Resourceful in meeting our urgent requirements.

We have extensively used KEI manufactured cables for 2 major ONGC Projects executed by us i.e. ICP-R & HRD Platforms. The main PO Nos. for these projects are as mentioned below.

0000308_3 of ICP-R
1989-hrd-Pur-HV LV Cable/020 of HRD

The collective values of the cables supplied against PO's referred and various repeat PO's are in excess of INR 250,000,000.00

The cables are in use since last 5 years on ONGC ICP-R Platform and we have found the performance satisfactory.

Authorized Signatories

Vijay Lunawat
JGM Procurement

Regd. Office: Akshay Estate, 14, 15th Street, East, Near Diesel Road, And Nagar P.O., Post Box No. 11978, Andhra (W), Hyderabad-500 011.
Tel: +91-22-4718 1100 / 2671 0842 Fax: +91-22-2671 0847 / 2671 0826 E-mail: info@afcons.com
CIN No. U47200MH2005PLC019133



Ref No: WPP/KEI/ADB/D-5/13-14/13
Date: 18.09.2013

To,
M/s. KEI Industries Ltd.,
33, Dr. Sundari Mohan Avenue,
1st & 2nd Floor,
Kolkata-700014

Sub: Issue of Delivery Schedule
Ref: Our Order No. 11 WPP/KEI/ADB/P.O/13-14/12(a) Dt. 18.09.13
21 WPP/KEI/ADB/P.O/13-14/13(a) Dt. 18.09.13
31 WPP/KEI/ADB/P.O/13-14/13 Dt. 18.09.13

Dear Sir,

With reference to above, we are enclosing herewith the delivery schedule of Materials in Annexure-1.

Therefore you are request to ensure the delivery schedule for timely completion of project.

Thanking you,
Yours faithfully,
For Win Power Infra Pvt. Ltd.

Purchase Manager

WINNARATI OFFICE: 45, Bye Lane-1, Ashokra Road, South Bararia, Udhari, Guwahati-781027, Assam.
Tel Fax: +91 361 2427634, Email: winpower_gya@gmail.com
CORPORATE OFFICE: 39, Pancha Mahal, 21, Sector Road, Guwahati, Assam (India), PIN-781002, India.
Tel: +91 361 2327985, Fax: +91 361 2327987, Email: info@winpowerinfra.com
REGISTERED OFFICE: 39, Pancha Mahal, 21, Sector Road, Guwahati, Assam (India), PIN-781002, India.
Tel: +91 361 2327985, Fax: +91 361 2327987, Email: info@winpowerinfra.com



No. WPP/KEI/ADB/P.O/13-14/13
Date: 09.09.13

M/s KEI Industries Ltd.,
33, Dr. Sundari Mohan Avenue,
1st & 2nd Floor,
Kolkata 700014

Kind Attention: Mr. Jashobant SR.

Sub: Purchase Order
Ref: Your Quotation No. KEI-KOL/WP/13-14/G-08/13(a) dt. 07.09.13
Dear Sir(s),

Please arrange to supply the Materials for our ADB Packages under APOCL as per the rates, terms & conditions mentioned below:

1. Scope of work: Supply of Materials as per APOCL's T.S including any addition /deletion during approval from APOCL.

Sno	Particulars	Unit	Qty	Rate
01.	11KV XLPE Cable 3C x 385 Sq.mm	Mtr.	620	667/-

2. Taxes & Duties: Only CST @1% extra as per ADB guideline.

3. Price Basic: Above prices are firm till final delivery of above materials including any quantity variations if any. This also includes packing & forwarding. Actual transportation charges shall be borne by us.

4. Delivery: Immediate

5. Inspection: As per APOCL terms.

6. Quality/Specification: As per APOCL's approved specification. A copy of APOCL, & T.S is being enclosed.

7. Guarantee: 66 Months from the date of dispatch & 60 months from the date of commissioning.

8. Liquidated Damage/Breakage: Time is the essence of this order and you have to strictly adhere to the delivery schedule. In case any delay from your side and materials are found broken or damaged at the time of delivery, we have the right to impose liquidated damage @ 0.5% per week of delay or part thereof, subject to a maximum of 5% of the value undelivered portion of materials.



WINNARATI OFFICE: 45, Bye Lane-1, Ashokra Road, South Bararia, Udhari, Guwahati-781027, Assam.
Tel Fax: +91 361 2427634, Email: winpower_gya@gmail.com
CORPORATE OFFICE: 39, Pancha Mahal, 21, Sector Road, Guwahati, Assam (India), PIN-781002, India.
Tel: +91 361 2327985, Fax: +91 361 2327987, Email: info@winpowerinfra.com
REGISTERED OFFICE: 39, Pancha Mahal, 21, Sector Road, Guwahati, Assam (India), PIN-781002, India.
Tel: +91 361 2327985, Fax: +91 361 2327987, Email: info@winpowerinfra.com



No. WPP/KEI/ADB/P.O/13-14/13
Date: 09.09.13

M/s KEI Industries Ltd.,
33, Dr. Sundari Mohan Avenue,
1st & 2nd Floor,
Kolkata 700014

Kind Attention: Mr. Jashobant SR.

Sub: Purchase Order
Ref: Your Quotation No. KEI-KOL/WP/13-14/G-08/13(a) dt. 07.09.13
Dear Sir(s),

Please arrange to supply the Materials for our HVDS Packages under APOCL as per the rates, terms & conditions mentioned below:

1. Scope of work: Supply of Materials as per APOCL's T.S including any addition /deletion during approval from APOCL.

Sno	Particulars	Unit	Qty	Rate
01.	11KV XLPE Cable 1C x 630 Sq.mm	Mtr.	200	1 565/-
02.	11KV XLPE Cable 1C x 420 Sq.mm	Mtr.	200	1 371/-
03.	11KV XLPE Cable 1C x 300 Sq.mm	Mtr.	320	1 128/-

2. Taxes & Duties: Only CST @1% extra as per HVDS/ADB guideline.

3. Price Basic: Above prices are firm till final delivery of above materials including any quantity variations if any. This also includes packing & forwarding. Actual transportation charges shall be borne by us.

4. Delivery: Immediate

5. Inspection: As per APOCL terms.

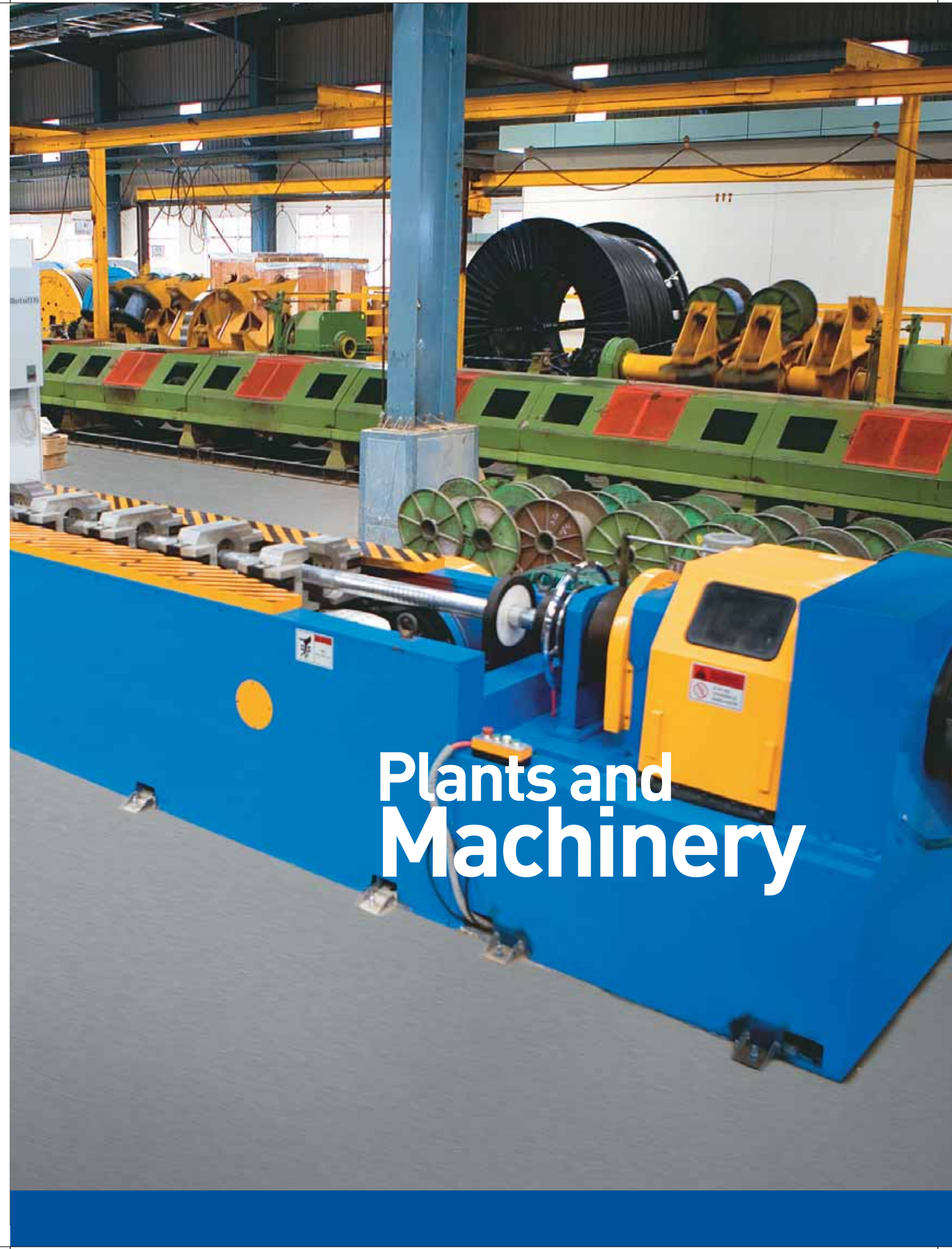
6. Quality/Specification: As per APOCL's approved specification. A copy of APOCL, & T.S is being enclosed.

7. Guarantee: 66 Months from the date of dispatch & 60 months from the date of commissioning.

8. Liquidated Damage/Breakage: Time is the essence of this order and you have to strictly adhere to the delivery schedule. In case any delay from your side and materials are found broken or damaged at the time of delivery, we have the right to impose liquidated damage @ 0.5% per week of delay or part thereof, subject to a maximum of 5% of the value undelivered portion of materials.



WINNARATI OFFICE: 45, Bye Lane-1, Ashokra Road, South Bararia, Udhari, Guwahati-781027, Assam.
Tel Fax: +91 361 2427634, Email: winpower_gya@gmail.com
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REGISTERED OFFICE: 39, Pancha Mahal, 21, Sector Road, Guwahati, Assam (India), PIN-781002, India.
Tel: +91 361 2327985, Fax: +91 361 2327987, Email: info@winpowerinfra.com



Plants and Machinery

LIST OF PLANT MACHINERY, CHOPANKI

SR.	NAME OF MACHINE	MAKE/COUNTRY
1	WIRE DRAWING MACHINE WITH ONLINE NIEHOFF ANNEALER (RBD) (CU)	1/ RBD CU /NIEHOFF
2	WIRE DRAWING MACHINE(RBD) (AL.)	2/ AL/ Indian
3	DUAL HEAD WIRE DRAWING MACHINE WITH ONLINE NIEHOFF ANNEALER	1/ Dual Wire/ NIEHOFF
4	HIGH SPEED BUNCHING MACHINE WITH 630MM PAYOFF SPOOL	1/ Bunche NIEHOFF,India
5	7-BOBBIN BOW TWISTER -I	1/ Indian
6	7 BOBBIN STRANDING MACHINE	1/Indian
7	37 (1+6+12+18) BOBBIN STRANDING MACHINE	2/ 19 & 37/Indian
8	61 (1+6+12+18+24) BOBBIN STRANDING MACHINE	1/ 61/ CHINA
9	65 MM COMPLETE EXTRUSION LINE	1/Indian
10	60 B SCREENING MACHINE	1/ Indian
11	60+120 MM COMPLETE DUAL EXTRUSION LINE FOR BI-COLOUR	1/ Indian
12	100 MM COMPLETE EXTRUSION LINE	1/Indian
13	LEAD EXTRUDER	1/Sweden
14	150 MM COMPLETE EXTRUSION LINE	1/Indian
15	7 BOBBIN BOW TWISTER-II	1/Indian
16	DRUM TWISTER	1/Indian
17	3+1 LAYING UP MACHINE	1/Indian
18	1+4 LAYING UP MACHINE	1/Indian
19	48 BOBBIN ARMOURING MACHINE - I	1/Indian
20	48 BOBBIN ARMOURING MACHINE-II	1/Indian
21	60 BOBBIN ARMOURING MACHINE	1/Indian
22	96 BOBBIN ARMOURING MACHINE	1/Indian
23	SPOOLING MACHINE-I	8/ Indian
24	CABLE REWINDING MACHINE - I	5/ Indian
25	BOILER	2/ Indian
26	WATER TANK FOR CURING/HV TEST	1/Indian
27	E.O.T. CRANE - I	4/Indian
28	COMPRESSOR - I	3/Indian
29	AIR DRYER UNIT	1/Indian
30	D.G. SET - I (500 KVA)	1/Indian
31	D.G. SET - II (1110 KVA)	1/USA
32	RO SYSTEM	1/Indian
33	WATER SOFTNER	1/Indian
34	COOLING TOWERS - I	2/ Indian
35	MOBILE CRANE	1/Indian
36	FORK LIFTER	1/Indian
37	UPS	1/Indian
38	CCV LINE 90MM+200MM+90MM	1/German

LIST OF PLANT MACHINERY, CHOPANKI

SR.	NAME OF MACHINE	MAKE/COUNTRY
39	32 B Laying up machine	1/Indian
40	80+175MM COMPLETE DUAL EXTRUSION LINE FOR BI-COLOUR	1/Indian
41	ALUMINIUM CORRUGATION	1/Imported
42	SHIELDING MACHINE	3
43	NITROGEN GENERATOR	1/Indian
44	WATER CHILLER	3/Indian
45	GOODS LIFT	2/ Indian
46	PASSENGER LIFT	1/Indian
47	EOT CRANE	3/5,6,7/ Indian
48	PORTABLE CRANE	1/Indian



LIST OF PLANT MACHINERY, (RUBBER PLANT) BHIWADI

SR.	NAME OF MACHINE	NO. OF MACHINES/ CAPACITY/ MAKE
1	KNEADER	2/ 35 LTRS./ India
2	TWO ROLL MILL	2/ 14"X36"/ India
3	TWO ROLL MILL	1/ 16"X42"/ India
4	TWO ROLL MILL	1/ 11"X22"/ India
5	HOT FEED EXTRUDER	1/ 75MM/ India
6	HOT FEED EXTRUDER	1/ 115MM/ India
7	COLD FEED EXTRUDER	1/ 120MM/ India
8	SILICONE EXTRUDER	1/ 65MM/ India
9	PVC EXTRUDER	1/ 65MM/ India
10	CV LINE	1/ 90MM/ French
11	CV LINE	1/ 60MM/ Imported
12	CCV LINE	1/ 90+120MM/ Imported
13	TAPING HEAD (HORIZONTAL)	1/ 3 HEAD/ India
14	TAPING HEAD (HORIZONTAL)	2/ 1 HEAD/ India
15	TAPING HEAD	1/ 2 HEAD/ India
16	CABLE REWINDER M/C + INKJET PRINTING M/C	2/ Willet UK
17	37 BOBBIN STRANDING /LAYING MACHINE	1/ 560MM/ India
18	7 BOBBIN MACHINE	1/ 560mm/ India
19	BUNCHER	1/ 630mm/ India
20	BUNCHER	2/ 560mm/ India
21	BUNCHER	2/ 400mm/ India
22	BRAIDING M/C	4/ 16 CARRIER/ Imported
23	BRAIDING M/C	1/ 24 CARRIER/ Imported
24	BRAIDING M/C	1/ 16 CARRIER/ India
25	BRAIDING M/C	2/ 36 CARRIER/ India
26	BRAIDING M/C	4/ 24 CARRIER/ USA
27	BRAIDING M/C	1/ 24 CARRIER/ India
28	BRAIDING M/C	1/ 16 CARRIER/ India
29	BRAIDING M/C	1/ 16 CARRIER/ Imported
30	BRAIDING M/C	1/ 24 CARRIER/ Imported
31	SPOOLING M/C	3/ 20"/24"/ India
32	SPOOLING M/C	1/ 20"/24"/25"/ India
33	SPOOLING M/C	1/ 25"/ India
34	VULCANIZING CHAMBER	1/ 8'X6'/ India
35	VULCANIZING CHAMBER	1/ 8'X12'/ India
36	VULCANIZING CHAMBER	1/ 2.7X4.5 MTR/ India
37	VERTICAL LAPPING	2/ 2HEAD/ Imported
38	VERTICAL LAPPING	1/ 3HEAD/ Imported

LIST OF PLANT MACHINERY, (RUBBER PLANT) BHIWADI

SR.	NAME OF MACHINE	NO. OF MACHINES/ CAPACITY/ MAKE
39	STEAM BOILER	1/ 2000 L/HR./ India
40	PAIR TWISTER	1/ 560MM/ India
41	SLITTING MACHINE	1/ 1MTR/ India
42	BOBBIN REWINDER WARDWELL	1/ 2 HEAD/ USA
43	BOBBIN REWINDER	1/ 2 HEAD/ Imported
44	BOBBIN REWINDER SHIDHANA	1/ 1 HEAD/ India
45	BOBBIN REWINDER-4 KEI	4/ 1 HEAD/ India
46	BANBURY INTERMIX	1/ 35 LIT/ india

LIST OF PLANT MACHINERY (SP-922) CONTROL DIVISION BHIWADI

SR.	NAME OF MACHINE	NO. OF MACHINES/ CAPACITY/ MAKE
1	Wire Drawing	1/ 2-wire/17-die/ Niehoff (Germany)
2	Wire Drawing	2/ 1-wire/17-die/ India
3	Buncher	2/ 8 bobbin/630mm/ India
4	Buncher	2/ 7 bobbin/630mm/ India
5	Buncher	6/ 7 bobbin/400mm/ India
6	Buncher	1/ 7 bobbin/250mm/ India
7	Buncher	1/ 8 bobbin/400mm/ India
8	Buncher	1/ 9 bobbin/400mm/ India
9	Buncher	1/ 10 bobbin/400mm/ India
10	Extruder-Insulation	2/ 60mm+38 Dual/ India
11	Extruder-Insulation	1/65mm/ India
11	Extruder-Insulation	1/ 50mm/ India
14	Pair Twist Buncher	4/ 630mm/ India
15	Shielding	5/ 630mm/ India
16	Laying	1/ 1+3/560mm/ India
17	Laying	1/ 1+6/400mm/ India
18	Roller Twister-630	1/ 630mm/ France
19	Laying	1/ 12+18/630mm/ India
20	Laying	1/ 19/630mm/ India
21	Laying	1/ 14/600mm/ India
22	Laying	1/ 12+18/400mm/ India
23	Drum Twister	1/ 1600mm/ India
24	Extruder	1/ 80mm/ India
25	Extruder	1/ 90mm/ India
26	Armouring	1/ 42 bobbin/400mm/ India
27	Armouring	1/ 64 bobbin/400mm/ India
28	Armouring	1/ 48 bobbin/400mm/ India

LIST OF PLANT MACHINERY (SP-922) CONTROL DIVISION BHIWADI

SR.	NAME OF MACHINE	NO. OF MACHINES/ CAPACITY/ MAKE
29	Armouring	1/ Double head taping m/c/ India
30	Armouring	1/ 24 bobbin/400mm/ India
31	Armouring	1/ 40 bobbin/400mm/ India
32	Extruder	1/ 120mm/ India
33	Extruder	1/ 80mm/ India
34	Extruder	1/ 45mm/ India
35	Extruder	1/ 50mm/ India
36	Cable Rewinder	5/ 2200mm/ India
37	Cable Rewinder (tape)	1/ 2200mm/ India
39	GI Rewinder	13/ 400mm/ India
40	Core Rewinder	10/ 630mm/ India
41	Auto Core Rewinder	4/ 630mm/ India
42	Conductor Rewinder	4/ 630mm/ India

CONDUCTOR DIVISION

1	RBD (AL)	2/ RBD- 13 Die/ Indian
2	RBD (AL)	2/ RBD- 11 Die/ Indian
3	RBD (CU) with Annealer	1/ RBD -11 Die with Annealer CU/ Germany
4	Wire Drawing (Cu.)	1/ 16 Die/CU/ Indian
5	Wire Drawing (Cu.)	1/ 19 Die/CU/ Indian
6	Wire Drawing (AL.)	1/ 17-Die/ AL/ Indian
7	61 -Str. Machine	2/ 61-bobbin/ Indian
8	97 -Str. Machine	1/ 97-bobbin/ Indian
9	37 -Str. Machine	2/ 37-bobbin/ Indian
10	19 -Str. machine	1/ 19-bobbin/ Indian
11	Skip	1/ 7-bobbin/ Indian
12	Tubular	1/ 7-bobbin/200mm/ Indian
13	Wire Rewinder	2/ 630mm/ Indian
14	Conductor Rewinder	1/ 2200mm/ Indian
15	Tinning machine	1/ Italian

UTILITY DIVISION

1	DG set	1/ 1110 kVA/ Cummins (India)
2	DG set	1/ 1010 kVA/ Cummins (India)
3	Compressor	3/ 18.5 kW/100 CFM/ ELGI (India)
4	Goods lift	2/ 7.5 ton/ Real (India)
5	Goods lift	1/ 2.0 ton/ Globe (India)
6	Passenger Lift	1/ 680 kg/ KONE (India)

LIST OF PLANT MACHINERY (SP-919) CONTROL CABLE BHIWADI

SR.	NAME OF MACHINE	NO. OF MACHINES/ CAPACITY/ MAKE
1	CU-Std 16"-1	3/ 400mm/ India
2	65MM EXT	1/ 65mm/ India
3	65MM EXT-2	1/ 66 mm/ India
4	Pair Twister-1	2/ 400mm/ India
5	Laying 3+1	1/ 4B/530 mm/ India
6	Shielding 1+1	2/ 560 mm/ India
7	Laying - 12 B.	1/ 630 mm/ India
8	Laying - 19 B.	1/ 630 mm/ India
9	40B Arm	1/ 400 mm/ India
10	24B Arm	1/ 400 mm/ India
11	100 MM EXT	2/ 100 mm/ India
12	Cable Rewinder	10 Numbers

LIST OF PLANT MACHINERY, HT & EHV BHIWADI

1	CCV LINE	1/ 65+150+90 MM/ Germany
2	SIO PLAS LINE	1/ 60+120+80 MM/ India
3	COPPER TAPING MACHINE	10 Numbers
4	DOUBLE STEEL TAPE	—
5	DRUM TWISTER	1/ 3150 MM/ India
6	LAYING MACHINE	1/ 1600 MM / (3+1)/ India
7	EXTRUDER	1/ 120 MM/ India
8	ARMOURING MACHINE	1/ 66B / 560 MM/ India
9	ARMOURING MACHINE	1/ 54B / 560 MM/ India
10	ARMOURING MACHINE	1/ 80B / 560 MM/ India
11	ARMOURING MACHINE	1/ 80B / 560 MM/ Imported
12	EXTRUDER	1/ 120+45 MM/ India
13	EXTRUDER	1/ 150MM/ India
14	EXTRUDER	1/ 120MM/ India
15	LEAD EXTRUDER	1/ 4X11 Inch/ Imported
16	CABLE REWINDING MACHINE	05 Number
17	ELECTRIC OVER HEAD TRAVELLING (CRANE)	3/ 15 TON/ India
18	ELECTRIC OVER HEAD TRAVELLING (CRANE)	2/ 10 TON/ India
19	MATERIAL LIFTS	2/ 3 TON/ India
20	D.G. SET	1/ 1250 kVA/ India
21	D.G. SET	1/ 500 kVA/ India
22	BOILER	1/ 600KG/Hr/ India
23	NITROGEN GENERATOR	1/ 40 NM ³ /Hr/ India
24	COMPRESSOR	3/ 57 M3/Hr/ India
25	UPS	4/ 250 kVA/ India
26	PASSENGER LIFT	1/ 650 KG/ Beacon

LIST OF PLANT MACHINERY, LT CABLE BHIWADI

SR.	NAME OF MACHINE	NO. OF MACHINES/ CAPACITY/ MAKE
1	AL WIRE DRAWING MACHINE	1/ 11 DIE/ Niehoff (India)
2	7 - TUBLLER - I	1/ 07B (500MM)/ India
3	33 - B M/C	1/ 33B (500MM)/ India
4	43 - B - M/C	1/ 43B(630MM)/ India
5	65-MM EXT. - I	2/ 65MM/ India
6	100MM EXT.	1/ 100MM/ India
7	120-MM EXT. - I	2/ 120MM/ India
8	150MM EXT.	1/ 150MM/ India
9	[3+1] - LAYING - I	1/ 3+1 , 48"/ India
10	DRUM TWISTER	1/ 3+1,64"/ India
11	36-B M/C (ARM.)	1/ 32B (500MM)/ India
12	48-B (ARM.) M/C	1/ 48B (400MM)/ India
13	54-B (ARM.) M/C	1/ 54MM (500MM)/ India
14	72-B (ARM.) M/C	1/ 72B (500MM)/ India
15	FURNACE	1/ 90KW/ India
16	WATER TANK XLPE CURRING	2/ 2.5X2.6X2.1M/ India
17	BOILER - I (KUMAR)	1/ 600KG/ India
18	PROGRESSIVE LENGTH MARKING	3/ 0000TO 9999/ India
19	E.O.T	3/ 7.5TON/ India
20	E.O.T	1/ 03TON/ India
21	E.O.T - (CARRYMORE)	1/ 05TON/ India
22	LIFT	1/ 02TON/ India
23	COMPRESSOR - I st (SCREW)	1/ 105CFM/ India
24	COMPRESSOR - II nd	2/ 80CFM/ India
25	D.G. 500 kVA	1/ 500 kVA/ India
26	UPS - I st	2/ 250 kVA/ India
27	CABLE REWIENDER	7/(2200mm/2600mm/2200mm, 500mm)/ India
28	G.I. SPOOLING M/C.	8/ 500MM/ India
29	AL. STRIP M/C	1/ 500MM/ India
M/C IN MAINTENANCE		
1	LATH M/C -I st	2/ 6FEET/ India
2	SHAPPER M/C	1/ 02FEET/ India
3	DRILLING M/C (VERTICAL)	1/ 22MM / India
4	BANCH GRIENDER M/C	1/ 215MM/ India
5	WELDING M/C -I	3/ 300AMP/ India
6	POWER HACKSAW	1/ 12"/ India
7	HAND GRIENDER M/C	1/ 7"/ India

LIST OF TESTING & MEASURING INSTRUMENTS, SILVASSA

SR.	NAME OF THE INSTRUMENT	NO. OF EQUIPMENTS	MAKE/MODEL	RANGE
1	Kelvin double Bridge	1	Osaw	0-110hms
2	Million Megohmmeter	1	Sivananda/LS-3B	10-10^6MW
3	Million Megohmmeter	1	Sivananda/LS-3BD	10-10^6MW
4	H.V. Megaohm box (IR)	1	Sigma	2MW - 20GW
5	Cold chamber	1	Audiotronics	RT to - 15deg
6	Cold chamber	1	Audiotronics	RT to - 45deg
7	Spark tester	1	RE	0 - 10 kV
8	Spark tester	3	RE	0 - 15 kV
9	H.V. Tester	1	RE	0-5Kv/0-10 kV
10	H.V. DC Tester	1	RE	0 - 3 kV
11	High Voltage Test Set	1	RE (AC)	0-6Kv / 0-12 kV
12	Tensile testing m/c.	1	Presto	0 - 2500N
13	Tensile testing m/c.	1	KMI 1.5G	0 - 50KN
14	Tensile testing m/c.	1	KMI 1.3D	0 - 200N
15	Hotset test Apparatus (Temp. Controler)	1	S.A. Associates	0-5000 C
16	Digital temp. controller (Thermal stability)	1	West	0-400 OC
17	Digital temp. controller (Water bath)	1	Narang	0-400 OC
18	Digital temp. controller (Water bath-2)	1	Audiotronics	0-199.9 OC
19	Oxygen Index / Temp. Index (Temp.controler)	1	S.A. Associates	0-400 OC
20	Weighing Balace	1	Presca/303	0-300Gr.
21	Air flow meter (Flame test -IEC-332/III)	1	S.A. Associates	0-91.19psi
22	Glass flow meter (Flame test -IEC-332/III)	1	S.A. Associates	0-11.9psi
23	Pressure Gauge (Flame test -IEC-332/III)	1	Manometer	0 to 4.2 Kg/cm2
24	Pressure Gauge (Flame test -IEC-332/III)	1	Manometer	0 to 2.1 Kg/cm2
25	Vaccum Gauge (WATER ABSORBTION TEST)	1	Manometer	(-760)mm Hg
26	Digital temp. controller (Vaccume Oven))	1	PT-100	0-2000C
27	Micro-ohmmeter	2	Agronic-53c	1999MW-19.99KW
28	Glass Thermometer	1	ZEAL	-10 to 110degC
29	Glass Thermometer	1	JRM	-10 to 360degC
30	Glass Thermometer	1	JRM	-10 to 250degC
31	Glass Thermometer	1	Venus	190 to 210degC
32	Glass Thermometer	1	JRM	-10 to 110degC
33	Ageing in Air Oven	1		0 to 300degC
34	Air Oven	1	Shivki	0 to 200degC
35	Ageing Oven (Temp. Controller)	1	West	0 to 200degC
36	Hcl gas test aprpratus(TEMP CONTROLER)	1	S.A. Associates	0-1000degC
37	Slip gauge	1	USSR	0.5 to 100mm
38	Vernier Caliper (DIGITAL)	1	Mitutoyo	0 - 150mm

LIST OF TESTING & MEASURING INSTRUMENTS, SILVASSA

SR.	NAME OF THE INSTRUMENT	NO. OF EQUIPMENTS	MAKE/MODEL	RANGE
38	Vernier Caliper (DIGITAL)	1	Mitutoyo	0 - 150mm
39	Digital Micrometer	1	Mitutoyo	0 - 25mm
40	Smoke Density test apparatus	1	S.A. Associates	
41	Fire Resistance Test Apparatus	1	-	-
42	Sweedish Chimmney test Apparatus	1		
43	Dumbell Cutting Die	1		-
44	Stop watch	1	Racer	0 - 15min
45	Colourfastness to Day light Exposure	1	-	-
46	Torsion testing M/C.	1	Presto	60 / 30 / 45
47	Hot Deformation test apparatus	1	S.A. Associates	-
48	Purity test	1	S.A. Associates	

LIST OF MAJOR TEST EQUIPMENT, BHIWADI

SR.	NAME OF EQUIPMENT	NO. OF EQUIPMENTS	MODEL/TYPE/YEAR OF MAKE	RANGE
1	UNIVERSAL HEATING OVEN	1	NSW, DELHI	0- 250°C
2	UNIVERSAL HEATING OVEN	1	JOHRI SCIENTIFIC	0- 250°C
3	HEATING OVEN	2	SA ASSOCIATE	0- 250°C
4	HOT SET TEST OVEN	3	SA ASSOCIATE	0- 250°C
5	VACUUM OVEN	1	JOHRI	0 -100°C / 0 -760 mmHg
6	UNIVERSAL HEATING OVEN	2	S.A. ASSOCIATE	0 to 250°C
7	VACUUM OVEN	1	S.A. ASSOCIATE	0 to 150°C / 0 - 999 mbar
8	THERMAL STABILITY TEST APP.	3	S.A. ASSOCIATE	0-300°C
9	MILLION MEGOHM METER	2	SIVANANDA	10 M-ohms to106 M-ohms
10	AGEING OVEN (4 Cell)	2	S.A. ASSOCIATE	0 -250°C
11	TENSILE TESTING MACHINE	1	KMI, AHEMD.	0 to 2500 N
12	AGEING OVEN (4 CELL)	2	S.A. ASSOCIATE	0 -400°C
13	AGEING OVEN (4 CELL)	2	S.A. ASSOCIATE	0 to 250°C
14	TENSILE TESTING MACHINE	1	KMI, AHEMD.	0 to 2500 N
15	TENSILE TESTING MACHINE	1	KMI, AHMD.	0 - 500 N
16	TENSILE TESTING MACHINE	1	KMI, AHEMD.	0 to 25000 N
17	DIGITAL WEIGHING BALANCE	1	AMAN	220 gm
18	DIGITAL WEIGHING BALANCE	1	SANSUI	6 kg
19	DIGITAL WEIGHING BALANCE	1	AFCOSET	0.00001 to 180 gms.
20	TORSION TESTING MACHINE	1	S.A. ASSOCIATE	0 To 999 turns
21	MICROMETER	1	MITUTOYO	0 to 25 mm
22	DEEP FREEZER	1	S.A. ASSOCIATE	-40 TO 30°C
23	CONDITIONING CHAMBER	1	S.A. ASSOCIATE	5 - 50°C / 0-99.9Rh %
24	WATER BATH (01)	2	JOHRI SCIENTIFIC	0 -200°C
25	WATER BATH (Big)	1	SA ASSOCIATE	0 -199.9°C
26	WATER BATH	1	S.A. ASSOCIATE	0 -100°C
27	KELVIN DOUBLE BRIDGE	1	OSAW	0.2 micro-ohm to 11 ohm
28	SENIOR KELVIN BRIDGE	1	OSAW	0.02 micro-ohm to 1.1 ohm
29	D.C.HIGH VOLTAGE TESTER	1	RE, DELHI	0-5 kV (D.C)
30	H.V. TESTER (FIRE SURVIVAL)	1	R.E.	0-1200 VOLTS
31	H.V. TESTER (A.C.) (W.I.)	1	R.E.	0-15/30 kV/22KVA
32	H.V. TESTER (A.C.) (L.T.)	1	R.E.	0-5/10 kV/50KVA
33	H.V. TESTER (A.C.) (Rubber)	1	R.E.	0-6/12 kV/ 50 kvA
34	H.V. TESTER (A.C.) (Control)	1	BILLIONIX	0-7.5/15 kV/60KVA
35	H.V. TESTER (A.C.) (H.T)	1	R.E.	0-5/10 kV/22KVA

LIST OF MAJOR TEST EQUIPMENT, BHIWADI

SR.	NAME OF EQUIPMENT	NO. OF EQUIPMENTS	MODEL/TYPE/YEAR OF MAKE	RANGE
36	DIGITAL VERNIER CALLIPER	2	MITUTOYO	0-150 mm
37	DIGITAL VERNIER CALLIPER	2	MITUTOYO	0-300 mm
38	MEG OHM BOX	1	SIGMA	20 MOHM - 200GOHM
39	DIGITAL VERNIER CALLIPER	1	MITUTOYO	0 - 150 mm
40	DIGITAL MICROMETER	1	MITUTOYO	0 - 25 mm
41	MICROMETER (Pointed)	2	MITUTOYO	0- 25 mm
42	DIGITAL MICROMETER	1	MITUTOYO	0 - 25 mm
43	MICROMETER	1	MITUTOYO	0- 25 mm
44	SMOKE DENSITY MEASUREMENT TEST APPARATUS	1	S.A. ASSOCIATES	0 - 100 %
45	THERMOMETER	2	ZEAL	10 TO 250°C
46	STANDARD CAPACITANCE BOX	1	SIGMA	0.1mPf to 3.3 uF
47	STANDARD RESISTANCE BOX	1	SIGMA	0.001 0hm to 1Kohm
48	STANDARD RESISTANCE	1	OSAW	0.1 0hm
49	02 & TEMP. INDEX TEST APPARATUS	1	S.A. ASSOCIATE	0 - 400°C
50	SMOKE DENSITY TEST APPARATUS	1	SA ASSOCIATE	0 TO 4.2 kg/cm²
51	ACID GAS GENERATION TEST APP.	1	S.A. ASSOCIATE	0-1000 degC
52	FLOWMETER FOR HCL GAS GENERATION TEST APPARATUS	1	IEPL	43 to430 sccm
53	FLAMMABILITY TEST APPARATUS	1	S.A. ASSOCIATE	---
54	FLAMMABILITY TEST APPARATUS	1	S.A. ASSOCIATE	0-1200 Deg C
55	FLAMMABILITY TEST APPARATUS (as per IEC 332-111 & IS-10810-PI-62)	1	S.A. ASSOCIATE	1.7 TO 17.05 LPM 8.98 TO 89.77 LPM
56	SWIDISH CHIMNEY TEST APP.	1	---	0 -1200°C
57	L-C-R-Q METER	1	APLAB	L - uH to H , C - pf-uf , R- ohm to M-ohm.
58	SINE SQUARE OSCILLATOR	1	TESTRONIX	1 KHz to 1000KHz / 0.3 - 30V
59	SOLID STATE AC MICROVOLTMETER	1	SYSTRONICS	AC voltage 0 microV to 500V .-120db to 56db
60	DIGITAL D.C MICROVOLT AMMETER	1	TESTRONEX	0-1000V / 1000 mA
61	kV METER	1	SIGMA	0 -10 kV
62	OIL BATH	1	SCIENTIFIC TRADERS	0 - 400°C
63	AIR & OXY. BOMB TEST APP.	1	JOHRI SCIENTIFIC	R.Temp-180 Deg.C
64	OZONE RESISTANCE TEST APPARATUS	1	SA ASSOCIATE	0-180 Deg C
65	TEMPRATURE INDICATOR	1	AUDIOTRONICS	0-1200 Deg C
66	MEASURING TAPE	1	PLASTIKA	15 Meter
67	STEEL SCALE	1	KRISTEEL	0 - 150 mm
68	STEEL SCALE	1	KRISTEEL	0 - 300 mm
69	STEEL SCALE	1	OMEGA	0 - 1000 mm

LIST OF MAJOR TEST EQUIPMENT, BHIWADI

SR.	NAME OF EQUIPMENT	NO. OF EQUIPMENTS	MODEL/TYPE/YEAR OF MAKE	RANGE
70	IMPEDANCE METER	1	SIVANANDA	0 0hm to19.99K-ohm
71	PROFILE PROJECTOR(MICROMETER)	1	MITUTOYO	0-25MM
72	HIGH PRECISION HIGH VOLTAGE CAPACITANCE BRIDGE	1	WELLGAIN CABLE SYSTSEM LTD.	10nf to 1000pf
73	PARTIAL DISCHARGE DETECTOR	1	DIELEC-JIATE	0 pc to 250 pc with multiplier
74	H.V. TESTER	1	POWERLITE	0.1 kV TO 75 kV
75	H. V.ETESTER (Series Resonance System)	1	DIELEC-JIATE	0 - 250 kV
76	IMPULSE VOLTAGE GENERATOR	1	DIELEC-JIATE	0 - 500 kV
77	HEATING CYCLE INSTRUMENT	1	DIELEC-JIATE	0 - 110 DegC
78	DIGITAL MICRO-OHM METER	3	Agronic-53C	199.9u-ohmto19.99K-ohm
79	BURRETE	1	BOROSIL	0.1ml to 50 ml
80	MEASURING CYLINDER	1	BOROSIL	1ml to 50 ml
81	MEASURING CYLINDER	1	BOROSIL	2ml to 250 ml
82	MEASURING CYLINDER	1	BOROSIL	5ml to 500 ml
83	MEASURING CYLINDER	1	BOROSIL	10ml to 1000 ml
84	MEASURING CYLINDER	1	BOROSIL	0.5ml to 25 ml
85	MEASURING CYLINDER	1	BOROSIL	1ml to 100 ml
86	MEASURING PIPETTE	1	BOROSIL	1 ml
87	MEASURING PIPETTE	1	BOROSIL	20 ml
88	MEASURING PIPETTE	1	BOROSIL	0.1 ml to 10 ml
89	DIGITAL STOP WATCH	2	RACER	0 - 24 Hours
90	DRY & WET THERMOMETER	1	DIMPLE	-10 TO 50°C
91	UV RADIATION TEST APPARATUS	1	SA Associate	0 - 200°C

LIST OF TESTING / QUALITY CONTROL INSTRUMENT & EQUIPMENTS, CHOPANKI

SR.	DESCRIPTION OF THE INSTUMENT	NO. OF EQUIPMENTS	MFG/COUNTRY
1	UNIVERSAL HEATING OVEN	3	S.A. ASSOCIATE, INDIA
2	HOT SET TEST OVEN with Dail Indicator	1	S.A. ASSOCIATE, INDIA
3	VACUUM OVEN	1	S.A. ASSOCIATE, INDIA
4	THERMAL STABILITY TEST APP.	1	S.A. ASSOCIATE, INDIA
5	AGEING OVEN (4 Cell)	3	S.A. ASSOCIATE, INDIA
6	DEEP FREEZER	1	S.A. ASSOCIATE, INDIA
7	CONDITIONING CHAMBER	1	S.A. ASSOCIATE, INDIA
8	Oxygen &Temp. INDEX TEST (ASTM-D -2863)	1	S.A. ASSOCIATE, INDIA
9	SMOKE DENSITY TEST APPARATUS (ASTM-D -2843)	1	S.A. ASSOCIATE, INDIA
10	ACID GAS GENERATION TEST APP. (IEC-754-1 & 2)	1	S.A. ASSOCIATE, INDIA
11	FLAMMABILITY TEST APPARATUS (IEEE-383)	1	S.A. ASSOCIATE, INDIA
12	SWIDISH CHIMNEY TEST APP.(SS-4241475)	1	S.A. ASSOCIATE, INDIA
13	DIGITAL TEMPERATURE INDICATOR	1	
14	STEEL SCALE	1	NA
15	MILLION MEGOHM METER IN STEPS, 500V	2	SIVANANDA, INDIA
16	TENSILE TESTING MACHINE 500N, 1000N & 2500N	1	CANON TENSILE M/c, INDIA
17	TENSILE TESTING MACHINE 2kN 5kN, 10kN	1	CANON TENSILE M/c, INDIA
18	ROLLING BALL MILL	1	S.A. ASSOCIATE, INDIA
19	HYDRAULLIC PRESS	1	JOHRI SCIENTIFIC, INDIA
20	DUMB-BELL CUTTING PRESS	1	S.A. ASSOCIATE, INDIA
21	TENSILE TESTING MACHINE	1	CANON TENSILE M/c, INDIA
22	DIGITAL MICROHM METER	2	AGRONIC-53C, INDIA
23	VERNIER CALLIPER	3	MITUTOYO, JAPAN
24	L-C-R-Q METER	1	APLAB, INDIA
25	KELVIN DOUBLE BRIDGE WITH SPOT REFLECTING GALVANOMETER	1	OSAW, INDIA
26	DIGITAL WEIGHING BALANCE	1	PRECISA INDIA
27	DIGITAL WEIGHING BALANCE	1	SANSUI, INDIA
28	GLASS THERMOMETER (GT-01)	1	GERA, INDIA
29	GLASS THERMOMETER (GT-02)	1	GERA, INDIA
30	AC H.V.TESTER 12kV/50kVA	1	RE, INDIA
31	DIGITAL VERNIER CALLIPER	3	MITUTOYO, JAPAN
32	DIGITAL MICROMETER	2	MITUTOYO, JAPAN
33	DIAL VERNIER CALLIPER	1	MITUTOYO, JAPAN
34	BALL POINT MICROMETER	1	MITUTOYO, JAPAN
35	ANALOG MICROMETER	1	MITUTOYO, JAPAN
36	DIGITAL BALL TYPE MICROMETER	1	MITUTOYO, JAPAN
37	WATER BATH (Johri Scientific) WB-1	1	(JOHRI SCIENTIFIC), INDIA

LIST OF TESTING / QUALITY CONTROL INSTRUMENT & EQUIPMENTS, CHOPANKI

SR.	DESCRIPTION OF THE INSTUMENT	NO. OF EQUIPMENTS	MFG/COUNTRY
38	WATER BATH (S.A. ASSOCIATE) WB-II	1	S.A. ASSOCIATE, INDIA
39	PROFILE PROJECTOR	1	BANBROS, INDIA
40	TORSION TESTING MACHINE	1	S.A. ASSOCIATE, INDIA
41	FLAMMABILITY TEST APPARATUS (IEC 332-I)	1	S.A. ASSOCIATE, INDIA
42	DIGITAL WEIGHING BALANCE	1	SANSUI, INDIA
43	P.D. DETECTOR (JFD-3) WITH SHIELDED ROOM	1	DIELEC - JIATE
44	SERIES RESONANCE HV TEST SET (1200kVA / 120kV)	1	DIELEC - JIATE, CHINA
45	PARTIAL DISCHARGE DETECTOR (DIELEC)	1	DIELEC - JIATE, CHINA
46	SERIES RESONANCE HV TEST SET (1200kVA / 120kV)	1	DIELEC - JIATE, CHINA
47	5 kV MEGGER and 10kV DIGITAL MEGGER	1	MEGGER, INDIA
48	PI STEEL SCALE (DIA-METRIC TAPE)	1	MICRONIX, INDIA
49	DIGITAL/ANALOUGE STOP WATCH	1	RACER
50	DIGITAL VERNIER CALLIPER	1	MITUTOYO, JAPAN
51	HVDC TESTER	1	JOHRI SCIENTIFIC, INDIA
52	WATER BATH	1	JOHRI SCIENTIFIC, INDIA
53	SERIES RESONANCE HV TEST SET (375kV/10000kVA)	1	HIPOTRONICS, USA
54	DIGITAL PARTIAL DISCHARGE DETECTOR (MTRONICX)	1	MTRONICX, HVTS, GERMANY
55	FULLY AUTOMATIC CONTROLLED TAN DELTA MEASUREMENT	1	MTRONICX, HVTS, GERMANY
56	TAN DELTA & CAPACITANCE MEASUREMENT BRIDGE QS 30A	1	WELLGAIN CABLES SYSTEMS
57	IMPULSE VOLTAGE TEST SYSTEM 2000kV/200kJ	1	WELLGAIN CABLES SYSTEMS
58	HEATING CYCLE INSTRUMENT 7000A/OPEN MOUTH TYPE	1	DIELEC - JIATE
59	HV TESTER (PROLONG HV TEST) 450 kV/225kVA	1	DIELEC - JIATE
60	HVDC & SURGE GENERATOR SET 0-32kV-400mA (4 STEPS)	1	TECHNO-INSTRUMENTS,INDIA
61	SHIELDING ROOM FOR EHV CABLES	1	DIELEC - JIATE
62	TGA (THERMOGRAVIMETRIC ANALYSER)	1	TA INSTRUMENTS, UK
63	DSC (DIFFERENTIAL SCANNING CALORIMETER)	1	TA INSTRUMENTS, UK
64	SPECTROMETER	1	PERKIN ELMERS
65	OPTICAL MICROSCOPE, MEASUREMENT SOFTWARE ASSITED (100X TO 1000X MAGNIFICATION IN FOUR STEPS)	1	DWINTER INDIA
66	ODR RHEOMETER	1	FUTURE FOUNDATIONS, INDIA
67	TAPE EXTRUSION EXTRUDER	1	SILICON, INDIA
68	GLASS THERMOMETER (GT-03) 150 deg. C	1	GERA, INDIA
69	GLASS THERMOMETER (GT-04) 250 deg. C	1	GERA, INDIA
70	TENSILE TESTING MACHINE 50KN (AUTOMATIC)	1	INSTRON, UK
71	UNIVERSAL HEATING OVEN	1	S.A. ASSOCIATE, INDIA
72	COLD ELONGATION TEST APPRATUS	1	S.A. ASSOCIATE, INDIA
73	CABLE QUICKY FOR THICKNESS MEASUREMENTS (AUTOMATIC)	1	S.A. ASSOCIATE, INDIA

MANUFACTURE OF EHV CABLES 66 kV TO 400 kV XLPE

KEI Industries Limited is equipped with the Cable Development Technologies to ensure manufacturing of cables up to and including 400 kV. At the Chopanki plant the company is into manufacturing of cables up to 400 kV and the Bhiwadi Plant is capable of manufacturing cables upto 132 kV by Dry Cure / Dry Cooled Process. The 400 kV cables are already Type & PQ tested at FGH Lab (Germany). KEI is equipped and accredited to manufacture cables to all national & international level.

Our Chopanki Plant which commenced its production in 2008 and equipped with state-of-art machines including testing equipments to meet Indian as well as international standards to produce cables and including 400kV.

KEI is equipped to manufacture EHV Cables using most modern machines & equipments at both the plants, received from M/s. Scholz and M/s. Troester (Germany). The plant is endowed with special features: Rotating Catapillers & Tross System for Eccentricity / Ovality Control at Chopanki.

- Single point Triple extrusion process prevents micro contaminants from outside atmosphere
- Dry cure & dry cooling process provides increased electrical stress bearing strength
- Online insulation thickness monitoring & control by Sikora X-ray unit
- Separate rooms with positive pressure for Insulation & semiconducting compound & vacuum feeding / Gravity Feeding at Chopanki for EHV
- Super clean / Tree retardant XLPE compound (Borealis, Dow, Hanwa etc)

We manufacture EHV Cables as per requirements of clients with Poly-Al tape, Corrugated Al / Corrugated Cu / Lead Alloy as well as with world renowned and tried process i.e. continuous extruder.

Some of the advantages of Lead extruded sheathed cables:

- Al Corrugated sheath has following advantages:
 - High Flexibility
 - Lesser Weight
 - Lesser Cost
 - Environment Friendly
- Lead has superior corrosion resistant properties in any environment than Aluminium
- Lead sheathed cables can follow bending with ease
- Lead sheathed cables provide radial water barrier
- Lead sheathed cables are easily solderable/welded
- Life of lead is more than 30 to 40 years
- Lead is very dense & easily fusible
- Shares the fault current with metallic screen in cable
- Chemical resistant behavior

A TYPICAL CROSS SECTION OF EHV CABLES:-

1. Stranded compacted plain Copper/Aluminium Conductor & Millikan Conductor for higher sizes above 1000 sq. mm. (Water tight conductors with water blocking tapes/yarn is an another option)
2. Semi Conducting Tape (Optional)
3. Extruded Semi-Conducting Layer (Conductor Screen)
4. XLPE Insulation (Super Clean Compound / Tree retardant)
5. Extruded Semi-conducting Layer (Insulation Screen)
6. Semi-conducting Water Blocking Tape
7. Extruded Lead Alloy E sheath / Aluminium Corrugated Sheath / Copper Corrugated Sheath / Aluminium Laminated Tapes
8. Semi-conducting Water Swellable Tape
9. Metallic Screen (Copper wires)
10. Counter open Helix with Copper Tape
11. Non-conducting water blocking tape
12. Extruded Inner Sheath
13. Aluminium Wire Armour
14. Outer Sheath
15. Graphite Coating / Extruded Semi-conductive layer

Manufacture of Cables

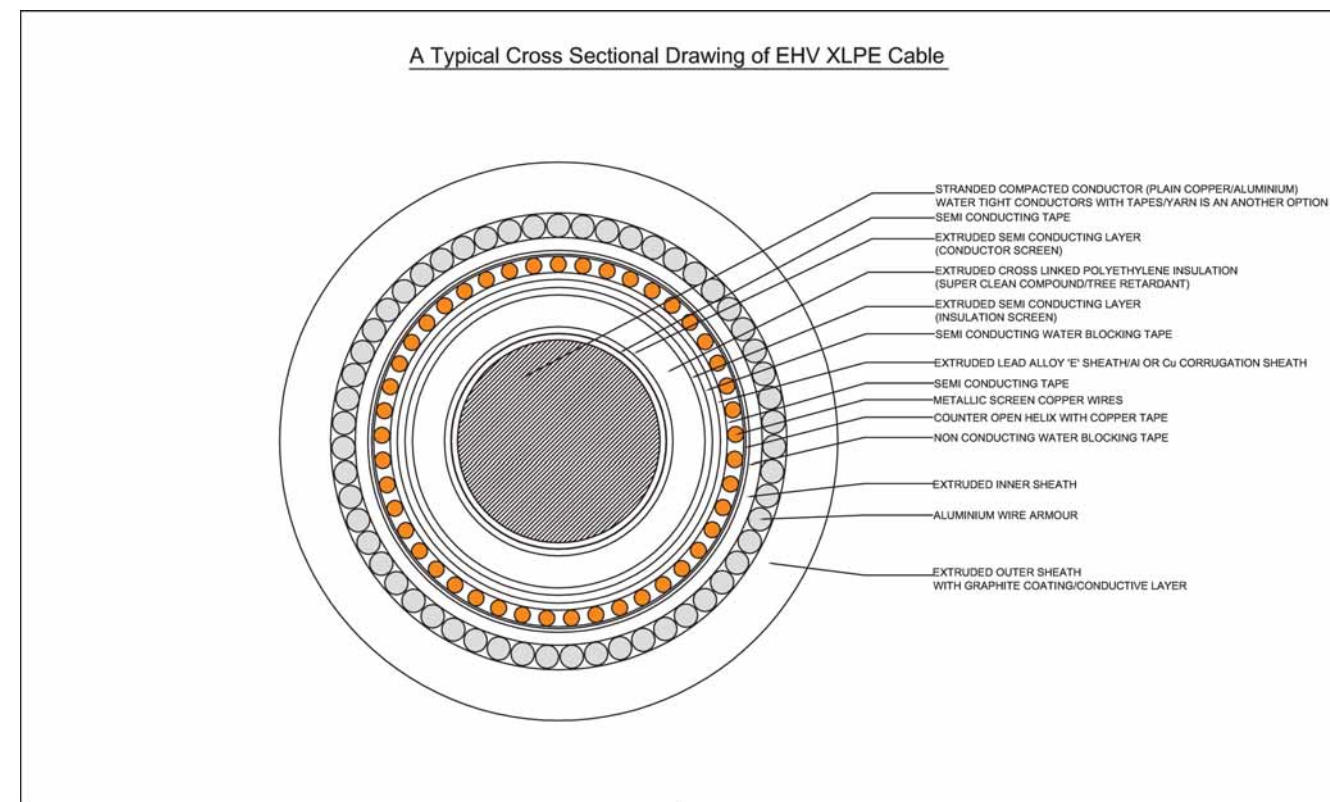
KEI offers complete solution for EHV Cables. Please send your requirements to us and we shall offer you our best solutions. Our Engineering department takes following into account:-

- Survey at site
- Selecting and recommending best routes for installation of the system
- Designing cables
- Manufacture of cables at their own plants (No out sourcing)
- Inspection at our plants
- Dispatch cables to site
- Take up installation of cables at site including termination and jointing etc.
- Final testing after installation & Complete Routine / Acceptance / Type testing In-house / MAH before dispatch from plant
- Charging of system
- Guarantee / warranty for the system and service after installation for many years

FOR CABLE DESIGN WE REQUIRE THE FOLLOWING:-

- i. System voltage
- ii. Operating frequency
- iii. Type of earthing
- iv. Fault current level and duration
- v. Lightning Impulse level
- vi. Normal loading
- vii. Cyclic emergency loading with duration
- viii. Max. air temperature
- ix. Ground thermal resistivity
- x. Route length requirements and allowable max. voltage drop per km
- xi. Terminations types
- xii. Site limitations & installation conditions & Drum handling System / Unloading system for longer length

Based on above and site visit, best cable solution can be designed and offered



KEI INDUSTRIES LTD

EHV , Single core, XLPE Cable

HT CABLES

KEI manufactures HT XLPE cables conforming to National and International Standards at Bhiwadi plant.

KEI has State-of-the-art HT / EHV Cable plant with German technology.

We have two CCV line with a Single point triple extrusion and computerized sophisticated control and monitoring systems. The CCV line at Bhiwadi was imported from Maschinenbau Scholz GMBH & Co KG, and CCV line at Chopanki supplied by paul Troester Germany. Both manufacturers are renowned in CCV line technology and have supplied more than 300 lines world over.

HT plant is complete with heavy duty machines for wire drawing and conductor making, laying up, armouring, sheathing and packing.

The process commences with a compacted circular conductor Millikan Conductor being fed from the pay off stands into the extruder on elevated platform. The conductor passes through extruder's crosshead, it is covered first with semiconducting screen layer then the XLPE insulation, followed by the outer semiconducting core screen. This crosshead is specially designed to feed three compounds from three extruders at one point described as Single-point Triple extrusion.

Thereafter, the extruded core enters and passes through vulcanizing line known as CCV line (Continuous Catenary Vulcanising) and the XLPE insulated core is cured in the process. In CV line inert atmosphere is maintained by the Nitrogen gas which is at high pressure and high temperature.

This process is popularly known as Single-point Triple extrusion CDCC (Completely Dry Cured and Dry Cooled Curing) Process.

Over the cured core a copper screening is provided by lapping of copper tape or for special requirements a layer of copper wires is provided. Core is tested for Partial Discharge and then as per requirement; the cores are laid up with fillers, provided with inner sheath, armoured and sheathed. Sheath can be of PVC, HDPE, FRLS, ZHFR, PCP or CSP compound. Seamless Lead "Alloy E" Sheath is extruded for moisture barrier, necessary for EHV Cables and Submarine Cables before Inner Sheath.

KEI's manufacturing plant and process ensures great XLPE cables for the new age Power sector and industry. Our modern plant takes full advantage of the new generation XLPE compounds which offer fast curing and superior electrical parameters, dimensional control and higher productivity. The Sikora X-Ray limits at both the plants and Rotating Cattapillar & Tross System provides excellent eccentricity and ovality control for higher thickness.

Triple Extrusion and CDCC process ensure contamination free cores. All three layers are bonded and core has least eccentricity and ovality. Insulation itself is free of micro-voids and with negligible moisture content.

To control the manufacturing process the line has been provided with many sophisticated instruments and servo controls all monitored by the computer. Important systems are:

X-Ray Non-touch sensors of SIKORA make for thickness and dimensional control. This system continuously measures the dimensions of insulated cores. Unit has capability to measure multilayer dimensions in all directions and record and analyse the data on line.

CCV tube has a Touch Less Sag control system. This ensures no marks/lines on core unlike older lines.

For EHV Cables conductor pre-heater, core rotation and de-gasification facilities have been provided.

Computerised control system ensures optimum efficiency, fast start up, synchronized operations of compound feeds, three extruders, CCV line gas temperature zones, pay off and take-up.

Nevertheless, KEI XLPE cables compare better than those produced with older plants when checked for Micro-voids, Moisture content, PD levels, dielectric strength.

We have strict quality plan and fully-equipped testing laboratory to ensure cables of best quality are produced as per the design and specifications prescribed. Cables have been type tested as per International Standards.

Inventory and production plans are controlled by BANN ERP system. This ensures reliable and prompt delivery and operational efficiency.

KEI offers a variety of designs to suit different installations viz. Aerial Bunched cables, Water tight construction, Stainless steel armouring for Offshore and Ship installation, etc.

We have many satisfied customers from many countries and diverse industries.

CAPACITANCE

"Approximate Capacitance for Single core & Multi core cables in microfarad per Km at 50 Hz

NOMINAL SIZE OF CONDUCTOR (IN SQMM)	1.9 / 3.3kV (E) OR 3.3 / 3.3 kV (UE)		3.8 / 6.6kV(E)	6.35/11kV(E) OR 6.6/6.6 kV(UE)	11/11kV(UE)	12.7/22kV(E)	19/33kV(E)
	UNARMoured	ARMoured					
25	0.230	0.210	0.220	0.180	0.140	-	-
35	0.270	0.240	0.250	0.210	0.150	0.140	-
50	0.300	0.270	0.270	0.220	0.160	0.160	0.120
70	0.340	0.310	0.310	0.250	0.190	0.170	0.140
95	0.390	0.350	0.350	0.290	0.210	0.190	0.150
120	0.430	0.390	0.380	0.310	0.220	0.210	0.160
150	0.490	0.420	0.430	0.340	0.240	0.230	0.180
185	0.520	0.460	0.450	0.360	0.260	0.240	0.180
240	0.590	0.510	0.510	0.410	0.290	0.270	0.200
300	0.670	0.570	0.540	0.460	0.320	0.300	0.230
400	0.760	0.630	0.570	0.520	0.360	0.340	0.250
500	0.770	0.680	0.570	0.560	0.390	0.360	0.270
630	0.810	0.680	0.640	0.630	0.430	0.400	0.290
800	0.860	0.740	0.730	0.710	0.490	0.450	0.330
1000	0.880	0.740	0.800	0.780	0.530	0.490	0.360

REACTANCE

"Approximate Reactance for Multi core cables in Ohms per Km at 50 Hz

NOMINAL SIZE OF CONDUCTOR (IN SQMM)	1.9 / 3.3kV (E) OR 3.3 / 3.3 kV (UE)	3.8 / 6.6kV(E)	6.35/11kV(E) OR 6.6/6.6kV(UE)	11/11kV(UE)	12.7/22kV(E)	19/33kV(E)
	25	0.0981	0.1090	0.1160	0.1300	-
35	0.0940	0.1050	0.1110	0.1240	0.1270	-
50	0.0878	0.0989	0.1050	0.1170	0.1200	0.1340
70	0.0842	0.0945	0.1000	0.1110	0.1140	0.1260
95	0.0813	0.0909	0.0959	0.1070	0.1090	0.1210
120	0.0785	0.0878	0.0925	0.1030	0.1050	0.1170
150	0.0769	0.0851	0.0894	0.0987	0.1000	0.1120
185	0.0755	0.0838	0.0879	0.0968	0.0990	0.1100
240	0.0737	0.0812	0.0850	0.0932	0.0952	0.1060
300	0.0725	0.0798	0.0823	0.0897	0.0915	0.1000
400	0.0712	0.0788	0.0799	0.0866	0.0883	0.0971

APPROXIMATE REACTANCE FOR SINGLE CORE CABLES IN OHM PER KM AT 50 Hz (CABLES LAID IN TREFOIL TOUCHING FORMATION)

NOMINAL SIZE OF CONDUCTOR (IN SQMM)	UNARMoured						ARMoured					
	1.9/3.3 kV (E) OR 3.3/3.3 kV (UE)	3.8/6.6 kV (E)	6.35/11 kV (E) OR 6.6/6.6 kV (UE)	11/11 kV (UE)	12.7/22 kV (E)	19/33 kV (E)	1.9/3.3 kV (E) OR 3.3/3.3 kV (UE)	3.8/6.6 kV (E)	6.35/11 kV (E) OR 6.6/6.6 kV (UE)	11/11 kV (UE)	12.7/22 kV (E)	19/33 kV (E)
25	0.1170	0.1230	0.1280	0.1390	-	-	0.1300	0.1330	0.1370	0.1470	-	-
35	0.1110	0.1170	0.1220	0.1330	0.1350	-	0.1230	0.1270	0.1310	0.1400	0.1420	-
50	0.1040	0.1110	0.1160	0.1260	0.1300	0.1400	0.1170	0.1200	0.1240	0.1340	0.1360	0.1470
70	0.0988	0.1050	0.1100	0.1190	0.1290	0.1330	0.1120	0.1140	0.1180	0.1270	0.1290	0.1400
95	0.0957	0.1010	0.1050	0.1150	0.1170	0.1270	0.1060	0.1080	0.1120	0.1210	0.1240	0.1340
120	0.0920	0.1020	0.1010	0.1100	0.1120	0.1220	0.1020	0.1040	0.1090	0.1180	0.1190	0.1290
150	0.0887	0.0936	0.0973	0.1060	0.1080	0.1170	0.0979	0.1010	0.1050	0.1130	0.1150	0.1240
185	0.0871	0.0919	0.0963	0.1040	0.1060	0.1160	0.0959	0.0993	0.1040	0.1110	0.1120	0.1210
240	0.0840	0.0894	0.0926	0.1000	0.1010	0.1110	0.0929	0.0969	0.0997	0.1070	0.1080	0.1170
300	0.0815	0.0869	0.0896	0.0961	0.0977	0.1060	0.0900	0.0936	0.0936	0.1020	0.1040	0.1130
400	0.0797	0.0850	0.0860	0.0925	0.0939	0.1030	0.0880	0.0917	0.0926	0.0984	0.0997	0.1180
500	0.0788	0.0838	0.0845	0.0905	0.0918	0.0994	0.0865	0.0900	0.0884	0.0959	0.0989	0.1060
630	0.0744	0.0819	0.0826	0.0875	0.0893	0.0960	0.0851	0.0876	0.0879	0.0941	0.0953	0.1020
800	0.0762	0.0778	0.0798	0.0855	0.0866	0.0925	0.0831	0.0858	0.0844	0.9120	0.0922	0.0976
1000	0.0758	0.0769	0.0787	0.0836	0.0851	0.0907	0.0830	0.0844	0.0846	0.0890	0.0904	0.0966

CURRENT RATINGS

KEI Recommendations for Current Ratings:

The Current rating of power cables is defined by the maximum intensity of current (amperes) which can flow continuously through the cable, under permanent loading conditions, without any risk of damaging the cable or deterioration or its electrical properties.

The value given in the tables are valid for one circuit in a three phase system under conditions specified. For grouping cables rating factors must be used.

The current carrying capacities mentioned in KEI technical data are intended as a guide, to assist operating engineers in selecting cables for safety and reliability.

- Max. Conductor Temperature : 90° C
- Ambient Ground Temperature : 30° C
- Ambient Air Temperature : 40° C
- Thermal resistivity of soil : 150°C cm/W
- Depth of laying (to the highest point of the cables laid direct in the ground)
 - 3.3, 6.6 & 11 kV Cables : 90 cm
 - 22 and 33 kV Cables : 105 cm
- Max. Conductor Temperature for Short Circuit : 250° C

To obtain the maximum current carrying capacity of a cable operating at different conditions from the standard, various rating factors are to be multiplied, as follows :-

$I_a = K \times I_s$ in amperes

I_a : Current rating at actual operating conditions (amperes)

I_s : Current rating at standard operating conditions (amperes)

K : Rating factor, as applicable

RATING FACTORS

1) For Air And Ground Temperature

a) Rating Factors For Variation In Ambient Air Temperature

Air Temperature, 0°C	25	30	35	40	45	50	55	60
Rating Factor (Maximum Conductor Temperature 90°C)	1.14	1.1	1.05	1.0	0.95	0.89	0.84	0.77

b) Rating Factors For Variation In Ground Temperature For Cables Laid Direct In The Ground

Ground Temperature, 0°C	15	20	25	30	35	40	45	50
Rating Factor (Maximum Conductor Temperature 90°C)	1.12	1.08	1.04	1.0	0.96	0.91	0.87	0.82

2) Rating Factors For Variation In Ground Temperature For Cables In Ducts

Ground Temperature, 0°C	15	20	25	30	35	40	45	50
Rating Factor (Maximum Conductor Temperature 90°C)	1.12	1.08	1.04	1.0	0.96	0.91	0.87	0.82

3) Rating Factors For Depth Of Laying For Cables Laid Direct In The Ground

Depth of Laying	3.3, 6.6 & 11 kV Cables	22 & 33 kV Cables
mm		
900	1.0	-
1050	0.99	1.0
1200	0.97	0.99
1500	0.95	0.97
1800	0.94	0.95
2000	0.93	0.94
2500	0.91	0.92
3000 or above	0.90	0.91

GROUP RATING FACTORS

FOR SINGLE CORE CABLES

A) Group Rating Factors For Three Core Cables, In Horizontal Formation Laid Direct In The Ground

Number of Cables in Group	Spacing between trefoil group centres				
	Touching	200	400	600	800
2	0.79	0.86	0.90	0.92	0.94
3	0.67	0.77	0.82	0.86	0.89
4	0.61	0.72	0.79	0.83	0.87
5	0.56	0.68	0.76	0.81	0.85
6	0.53	0.65	0.74	0.80	0.84
7	0.50	0.63	0.72	0.78	0.83
8	0.48	0.61	0.71	0.78	-
9	0.46	0.60	0.70	0.77	-
10	0.44	0.59	0.69	-	-
11	0.43	0.58	0.69	-	-
12	0.42	0.57	0.68	-	-

B) Cables laid on Racks / Trays in covered trench with removable covers where air circulation is restricted, Trefoils are separated by two cable diameter horizontally and the trays are in tiers having 300 mm distance.

No. Racks / Trays in Tiers	No. of Trefoils in Horizontal Formation		
	1	2	3
1	0.95	0.90	0.88
2	0.90	0.85	0.83
3	0.88	0.83	0.81
6	0.86	0.81	0.79

C) As above B. but cables laid in open air.

No. Racks / Trays in Tiers	No. of Trefoils in Horizontal Formation		
	1	2	3
1	1	0.98	0.96
2	1	0.95	0.93
3	1	0.94	0.92
6	1	0.93	0.90

FOR MULTI CORE CABLES

A) Cables laid Inside concrete trench with removable covers, on cable trays where air circulation is restricted. The Cables spaced by one cable diameter and trays are in tiers spaced by 300 mm. The clearance Between the wall and the cable is 25 mm.

No. of cables trays in tier	Distance between Trefoils				
	1	2	3	6	9
1	0.95	0.90	0.88	0.85	0.84
2	0.90	0.85	0.83	0.81	0.80
3	0.88	0.83	0.81	0.79	0.78
6	0.86	0.81	0.79	0.77	0.76

B) Cable laid on cable trays exposed to air, the cables spaced by one cable diameter and trays are in tiers spaced by 300 mm. The clearance of the cable from the wall is 25 mm.

No. of cables trays in tier	No. of cables				
	1	2	3	6	9
1	1	0.98	0.80	0.75	0.73
2	1	0.95	0.76	0.71	0.69
3	1	0.94	0.74	0.70	0.68
6	1	0.93	0.72	0.68	0.66

C) Cables laid on cable trays exposed to air, the cables touching and trays are in tiers spaced by 300 mm. The clearance between the wall and the cable is 25 mm.

No. of cables trays	No. of cables per tray				
	1	2	3	6	9
1	1	0.84	0.80	0.75	0.73
2	1	0.80	0.76	0.71	0.69
3	1	0.78	0.74	0.70	0.68
6	1	0.76	0.72	0.68	0.66

D) Cables laid direct in ground in horizontal formation.

No. of cables in Group	Distance of cables			
	Touching	15cm	30cm	45 cm
2	0.79	0.82	0.87	0.90
3	0.69	0.75	0.79	0.83
4	0.62	0.69	0.74	0.79
5	0.58	0.65	0.72	0.76
6	0.54	0.61	0.69	0.75

SINGLE CORE COMPACTED ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLE, Al & Cu/XLPE/Al WIRE/PVC CONFIRMING TO IS: 7098 (PART-2)

Voltage Grade : 1.9/3.3 kV (Unscreened) (E)

WEIGHT & DIMENSIONS

Nominal Size of stranded conductor as per IS: 8130	Current Rating												Armoured Cable				Unarmoured Cable																											
	Aluminium				Copper				Cu Approx. weight of cable	Al Approx. weight of cable	Approx. Overall diameter of Cable with ± 3mm tolerance	Min thickness of Outer Sheath	Nom diameter of Al wire	Nom thickness of XLPE insulation	Cu Approx. weight of cable	Al Approx. weight of cable	Cu Approx. weight of cable	Al Approx. weight of cable	Nom thickness of XLPE insulation	Nom thickness of Outer Sheath	Nom diameter of Al wire																							
	Buried Direct in the Ground @ 30° C	In Air @ 40° C	In Single way Duct @ 30° C	In Air @ 40° C	Buried Direct in the Ground @ 30° C	In Air @ 40° C	In Single way Duct @ 30° C	In Air @ 40° C														mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm											
25	101	118	115	118	127	130	113	111	148	151	88	87	99	101	117	117	120	120	142	14.2	1.4	2.5	385	235	385	235	14.6	14.6	20.4	21.8	23.2	25.1	825	990	1175	1495	1800	2250	2800	3500	51.6	2.6	2.6	
35	117	142	139	142	151	155	135	132	179	183	104	103	117	117	138	141	141	141	15.2	15.2	1.4	2.5	470	275	470	275	15.6	15.6	20.4	21.8	23.2	25.1	990	1175	1495	1800	2250	2800	3500	51.6	2.6	2.6		
50	141	169	166	169	178	181	158	154	214	218	123	120	141	141	168	172	172	172	16.7	16.7	1.4	2.5	605	325	605	325	16.7	16.7	20.4	21.8	23.2	25.1	1175	1495	1800	2250	2800	3500	51.6	2.6	2.6			
70	168	208	208	208	216	220	192	187	267	271	149	146	168	168	200	204	204	204	18.3	18.3	1.6	2.5	800	400	800	400	18.3	18.3	20.4	21.8	23.2	25.1	1495	1800	2250	2800	3500	51.6	2.6	2.6				
95	200	252	252	252	256	260	227	220	323	327	177	172	200	200	227	230	230	230	20.4	20.4	1.6	2.5	1050	515	1050	515	20.4	20.4	20.4	21.8	23.2	25.1	1800	2250	2800	3500	51.6	2.6	2.6					
120	227	292	292	292	296	299	257	247	374	376	195	195	227	227	252	255	255	255	21.4	21.4	1.6	2.5	1275	600	1275	600	21.4	21.4	20.4	21.8	23.2	25.1	2250	2800	3500	51.6	2.6	2.6						
150	252	323	323	323	323	323	285	272	422	422	215	215	252	252	285	287	287	287	22.8	22.8	1.6	2.5	1500	695	1500	695	22.8	22.8	20.4	21.8	23.2	25.1	2800	3500	51.6	2.6	2.6							
185	285	362	362	362	362	362	319	302	484	481	241	241	285	285	319	323	323	323	24.7	24.7	1.6	2.5	1850	825	1850	825	24.7	24.7	20.4	21.8	23.2	25.1	3500	51.6	2.6	2.6	2.6	2.6	2.6	2.6				
240	326	411	411	411	411	411	359	333	550	550	286	286	326	326	359	362	362	362	27.5	27.5	1.6	2.5	2350	990	2350	990	27.5	27.5	20.4	21.8	23.2	25.1	422	422	422	422	422	422	422	422	422	422	422	422
300	365	456	456	456	456	456	398	363	615	615	319	319	365	365	398	400	400	400	29.6	29.6	1.6	2.5	2850	1175	2850	1175	29.6	29.6	20.4	21.8	23.2	25.1	550	550	550	550	550	550	550	550	550	550	550	
400	412	508	508	508	508	508	443	400	754	754	359	359	412	412	443	443	443	443	32.8	32.8	2.0	2.5	3750	1495	3750	1495	32.8	32.8	20.4	21.8	23.2	25.1	754	754	754	754	754	754	754	754	754	754	754	
500	461	593	593	593	593	593	498	443	929	929	401	401	461	461	498	500	500	500	36.2	36.2	2.0	2.5	4600	1800	4600	1800	36.2	36.2	20.4	21.8	23.2	25.1	929	929	929	929	929	929	929	929	929	929	929	
630	514	647	647	647	647	647	559	486	1002	1002	445	445	514	514	559	561	561	561	40.6	40.6	2.0	2.5	5750	2250	5750	2250	40.6	40.6	20.4	21.8	23.2	25.1	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	
800	583	746	746	746	746	746	638	549	1183	1183	476	476	583	583	638	638	638	638	45.7	45.7	2.0	2.5	7300	2800	7300	2800	45.7	45.7	20.4	21.8	23.2	25.1	1183	1183	1183	1183	1183	1183	1183	1183	1183	1183	1183	
1000	672	866	866	866	866	866	780	672	1383	1383	509	509	672	672	780	780	780	780	51.8	51.8	2.5	2.5	9100	3500	9100	3500	51.8	51.8	20.4	21.8	23.2	25.1	1383	1383	1383	1383	1383	1383	1383	1383	1383	1383	1383	

SINGLE CORE COMPACTED ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLE, Al & Cu/XLPE/Al WIRE/PVC CONFORMING TO IS: 7098 (PART-2)

Voltage Grade : 3.3/3.3 kV (Screened) (UE)

WEIGHT & DIMENSIONS

Nominal Size of stranded, class-2 conductor as per IS: 8130	Unarmoured Cable				Armoured Cable				Current Rating													
	Nom thickness of XLPE Insulation	Nom thickness of Outer Sheath	Approx Overall diameter of Cable with ± 3mm tolerance	Cu Approx weight of cable	Min thickness of Outer Sheath	Approx Overall diameter of Cable with ± 3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Buried Direct in the Ground @ 30° C		In Single way Duct @ 30° C		In Air @ 40° C		Buried Direct in the Ground @ 30° C		In Single way Duct @ 30° C		In Air @ 40° C			
									Trefoil Touching	Flat Touching	Trefoil Touching	Flat Touching	Trefoil Touching	Flat Touching	Trefoil Touching	Flat Touching	Trefoil Touching	Flat Touching	Trefoil Touching	Flat Touching		
Sq.mm.	mm	mm	mm	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
25	2.2	1.8	15.6	310	1.40	21.6	525	675	99	101	88	87	115	118	127	130	111	113	148	151	148	151
35	2.2	1.8	16.6	350	1.4	22.6	575	775	117	120	104	103	139	142	151	155	132	135	179	183	179	183
50	2.2	2	17.7	425	1.4	23.7	650	950	138	141	123	120	166	169	178	181	154	158	214	218	214	218
70	2.2	2	19.3	500	1.4	25.3	750	1150	168	172	149	146	208	212	216	220	192	192	267	271	267	271
95	2.2	2.0	21.4	600	1.4	27.0	875	1400	200	204	177	172	252	256	256	260	227	220	323	327	323	327
120	2.2	2.0	22.8	700	1.4	28.4	975	1650	227	230	201	195	292	296	290	292	257	247	374	376	374	376
150	2.2	2.0	24.2	800	1.6	30.2	1125	1950	252	255	223	215	329	333	323	323	285	272	422	422	422	422
185	2.2	2.0	26.1	925	1.6	32.1	1250	2300	285	287	251	241	380	383	362	359	319	302	484	484	484	481
240	2.2	2.2	28.5	1125	1.6	35.3	1550	2900	326	323	286	270	448	444	411	398	361	333	565	550	565	550
300	2.2	2.2	30.6	1350	2.0	37.4	1775	3175	365	357	319	298	511	502	456	435	400	363	641	615	641	615
400	2.2	2.2	35.4	1650	2.0	41.2	2175	4400	412	397	359	329	593	574	508	474	443	393	734	690	734	690
500	2.4	2.2	38.8	2000	2.0	44.6	2575	5350	461	436	401	360	680	647	559	509	466	420	828	761	828	761
630	2.6	2.4	42.8	2450	2.0	48.8	3075	6600	514	475	445	390	777	725	611	543	529	446	929	834	929	834
800	2.8	2.6	47.9	3050	2.5	55	3900	8400	552	495	476	403	863	780	638	549	549	447	1002	872	1002	872
1000	3.0	2.6	54	3700	2.5	61	4700	10350	595	523	509	423	954	846	672	549	575	460	1083	927	1083	927

SINGLE CORE COMPACTED ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLE, Al & Cu/XLPE/Al WIRE/PVC CONFORMING TO IS: 7098 (PART-2)

Voltage Grade : 3.8/6.6 kV (E)

WEIGHT & DIMENSIONS

Nominal Size of stranded, class-2 conductor as per IS: 8130	Unarmoured Cable				Armoured cable				Current Rating													
	Nom thickness of XLPE Insulation	Nom thickness of Outer Sheath	Approx Overall diameter of Cable with ± 3mm tolerance	Cu Approx weight of cable	Min thickness of Outer Sheath	Approx Overall diameter of Cable with ± 3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Buried Direct in the Ground @ 30° C		In Single way Duct @ 30° C		In Air @ 40° C		Buried Direct in the Ground @ 30° C		In Single way Duct @ 30° C		In Air @ 40° C			
									Trefoil Touching	Flat Touching	Trefoil Touching	Flat Touching	Trefoil Touching	Flat Touching	Trefoil Touching	Flat Touching	Trefoil Touching	Flat Touching	Trefoil Touching	Flat Touching		
Sq.mm.	mm	mm	mm	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
25	2.8	1.8	18.0	340	1.40	20.3	450	600	99	101	88	87	115	118	127	130	111	133	148	151	148	151
35	2.8	2.0	19.4	400	1.4	21.6	525	700	117	120	104	103	139	142	151	155	132	135	179	183	179	183
50	2.8	2.0	20.5	475	1.4	22.7	600	875	138	141	123	120	166	169	178	181	154	158	214	218	214	218
70	2.8	2.0	23.1	550	1.4	24.3	675	1050	168	172	149	146	208	212	216	220	192	192	267	271	267	271
95	2.8	2.0	23.8	640	1.4	26.0	800	1325	200	204	177	172	252	256	256	260	227	220	323	327	323	327
120	2.8	2.0	25.2	750	1.4	27.4	900	1550	227	230	201	195	292	296	290	292	257	247	374	376	374	376
150	2.8	2.0	26.6	850	1.6	29.2	1025	1850	252	255	223	215	329	333	323	323	285	272	422	422	422	422
185	2.8	2.0	28.5	1000	1.6	31.1	1150	2200	285	287	251	241	380	383	362	359	319	302	484	481	484	481
240	2.8	2.2	31.3	1200	1.6	34.3	1450	2800	326	323	286	270	448	444	411	398	361	333	565	550	565	550
300	3.0	2.2	33.8	1425	1.6	36.8	1675	3350	365	357	319	298	511	502	456	435	400	363	641	615	641	615
400	3.3	2.2	37.4	1750	2.0	41	2100	4350	412	397	359	329	593	574	508	474	443	393	734	690	734	690
500	3.5	2.4	41.2	2150	2.0	44.4	2450	5250	461	436	401	360	680	647	559	509	466	420	828	761	828	761
630	3.5	2.4	44.8	2550	2.0	48.2	2950	6450	514	475	445	390	777	725	611	543	529	446	929	834	929	834
800	3.5	2.6	49.5	3150	2.5	53.8	3700	8150	552	495	476	403	863	780	638	549	549	447	1002	872	1002	872
1000	3.6	2.8	55.4	3850	2.5	59.6	4450	10050	595	523	509	423	954	846	672	549	575	460	1083	927	1083	927

SINGLE CORE COMPACTED ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, UNARMORED & ARMORED CABLE CONFORMING TO IS: 7098 (PART-2)

Voltage Grade : 6.35 / 11kV (IE), 6.6/6.6 kV (UE)

WEIGHT & DIMENSIONS

Nominal Size of stranded, class-2 conductor as per IS: 8130	Unarmoured Cable				Round Wire Armoured Cable				Current Rating																	
	Nom thickness of XLPE Insulation	Nom thickness of Outer Sheath	Approx Overall diameter of Cable with ± 3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Nom diameter of Al wire	Min thickness of Outer Sheath	Approx Overall diameter of Cable with ± 3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Aluminium			In Air @ 40°C			Buried Direct in the Ground @ 30°C			Copper			In Air @ 40°C			
											In Single way Duct @ 30°C		Flat Touching		Trefoil Touching		Flat Touching		Trefoil Touching		Flat Touching		Trefoil Touching		Flat Touching	
Sq.mm.	mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	mm	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
35	3.6	2.0	21.0	450	650	1.6	1.4	23.2	525	700	118	120	104	102	140	143	151	155	134	132	181	185				
50	3.6	2.0	22.1	525	800	1.6	1.4	24.3	600	875	138	141	122	120	167	171	178	181	158	154	216	219				
70	3.6	2.0	23.7	625	1000	1.6	1.4	25.9	675	1050	168	172	149	146	209	213	216	220	191	186	269	273				
95	3.6	2.0	25.4	725	1250	1.6	1.4	27.6	800	1300	200	204	177	172	254	258	257	259	227	219	326	329				
120	3.6	2.0	26.8	825	1500	1.6	1.56	29.4	900	1550	227	230	200	194	294	298	290	292	256	246	376	378				
150	3.6	2.0	28.2	925	1750	1.6	1.56	30.8	1025	1875	252	255	223	215	331	335	323	323	285	272	424	425				
185	3.6	2.2	30.2	1050	2100	2.0	1.56	33.5	1150	2200	284	284	250	238	383	384	360	354	317	297	487	480				
240	3.6	2.2	32.9	1250	2600	2.0	1.56	35.9	1450	2800	326	323	286	270	450	446	411	398	361	332	568	552				
300	3.6	2.2	35.0	1500	3150	2.0	1.56	38.0	1650	3350	365	357	319	297	512	503	456	435	399	362	643	616				
400	3.6	2.2	38.0	1800	4050	2.0	1.72	41.6	2100	4350	412	397	359	329	594	575	508	474	443	392	735	690				
500	3.6	2.4	41.4	2150	5000	2.0	1.72	44.6	2450	5250	461	436	401	360	680	647	559	510	486	420	828	761				
630	3.6	2.4	45.0	2550	6125	2.0	1.88	48.6	3000	6450	514	476	445	390	778	725	611	544	529	446	930	835				
800	3.6	2.6	49.7	3150	7650	2.5	2.04	54.1	3700	8200	553	496	476	404	863	781	639	550	550	448	1003	873				
1000	3.6	2.8	55.4	3850	9500	2.5	2.20	59.6	4450	10050	595	523	509	423	954	846	672	569	575	460	1083	927				

SINGLE CORE COMPACTED ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, UNARMORED & ARMORED CABLE CONFORMING TO IS: 7098 (PART-2)

Voltage Grade : 11/11 kV (UE)

WEIGHT & DIMENSIONS

Nominal Size of stranded, class-2 conductor as per IS: 8130	Unarmoured Cable				Armoured cable				Current Rating																
	Nom thickness of XLPE Insulation	Nom thickness of Outer Sheath	Approx Overall diameter of Cable with ± 3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Nom diameter of Al wire	Min thickness of Outer Sheath	Approx Overall diameter of Cable with ± 3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Aluminium			In Air @ 40°C			Buried Direct in the Ground @ 30°C			Copper			In Air @ 40°C		
											In Single way Duct @ 30°C		Flat Touching		Trefoil Touching		Flat Touching		Trefoil Touching		Flat Touching		Trefoil Touching		Flat Touching
Sq.mm.	mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	mm	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
35	5.5	2.0	25.2	600	800	1.6	1.4	27.4	750	950	118	120	104	102	140	143	151	155	134	132	181	185			
50	5.5	2.0	26.3	675	950	1.6	1.56	28.8	850	1125	138	141	122	120	167	171	178	181	158	154	216	219			
70	5.5	2.0	27.9	775	1150	1.6	1.56	30.4	950	1350	168	172	149	146	209	213	216	220	191	186	269	273			
95	5.5	2.0	29.6	900	1425	1.6	1.56	32.1	1050	1600	200	204	177	172	254	258	257	259	227	219	326	329			
120	5.5	2.2	31.4	1000	1700	2.0	1.56	34.3	1250	1950	227	230	200	194	294	298	290	292	256	246	376	378			
150	5.5	2.2	32.8	1150	2000	2.0	1.56	35.7	1400	2200	252	255	223	215	331	335	323	323	285	272	424	425			
185	5.5	2.2	34.7	1275	2300	2.0	1.56	37.6	1550	2600	284	284	250	238	383	384	360	354	317	297	487	480			
240	5.5	2.2	37.1	1500	2850	2.0	1.72	40.3	1800	3150	326	323	286	270	450	446	411	398	361	332	568	552			
300	5.5	2.2	39.2	1700	3400	2.0	1.72	42.4	2050	3700	365	357	319	297	512	503	456	435	399	362	643	616			
400	5.5	2.4	42.8	2050	4300	2.0	1.88	46.0	2425	4650	412	397	359	329	594	575	508	474	443	392	735	690			
500	5.5	2.4	45.8	2400	5250	2.0	1.88	49.0	2800	5600	461	436	401	360	680	647	559	510	486	420	828	761			
630	5.5	2.6	49.8	2900	6450	2.5	2.04	53.9	3450	7000	514	476	445	390	778	725	611	544	529	446	930	835			
800	5.5	2.8	54.4	3500	8000	2.5	2.2	58.5	4100	8600	553	496	476	404	863	781	639	550	550	448	1003	873			
1000	5.5	2.8	59.8	4200	9800	2.5	2.20	63.8	4850	10500	595	523	509	423	954	846	672	569	575	460	1083	927			

SINGLE CORE COMPACTED ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, UNARMORED & ARMORED CABLE CONFORMING TO IS: 7098 (PART-2)

Voltage Grade : 12.7/22 kV (E)

WEIGHT & DIMENSIONS

Nominal Size of stranded, class-2 conductor as per IS: 8130	Unarmoured Cable				Round Wire Armoured Cable				Current Rating																
	Nom thickness of XLPE Insulation	Nom thickness of Outer Sheath	Approx Overall diameter of Cable with ± 3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Nom diameter of Al wire	Min thickness of Outer Sheath	Approx Overall diameter of Cable with ± 3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Aluminium			Copper			Buried Direct in the Ground @ 30°C			In Air @ 40°C					
											In Single way Duct @ 30°C		Flat Touching		Trefoil Touching		In Single way Duct @ 30°C		Flat Touching		Trefoil Touching		Buried Direct in the Ground @ 30°C		Flat Touching
	mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	Amps	Trefoil Touching	Flat Touching	Amps	Trefoil Touching	Flat Touching	Amps	Trefoil Touching	Flat Touching	Amps	Trefoil Touching	Flat Touching	Amps	Trefoil Touching	Flat Touching
35	6.0	2.0	26.2	650	850	1.6	1.4	28.2	800	1000	1.6	1.4	102	119	144	146	153	150	153	132	129	185	188		
50	6.0	2.0	27.3	725	1000	1.6	1.56	29.6	900	1175	1.6	1.56	120	139	174	177	176	178	154	150	224	227			
70	6.0	2.0	28.9	825	1225	1.6	1.56	31.2	1000	1400	2.0	1.56	146	169	217	220	214	215	187	180	278	280			
95	6.0	2.2	31.0	975	1500	2.0	1.56	33.7	1125	1650	2.0	1.56	172	198	262	264	253	253	221	212	336	336			
120	6.0	2.2	32.4	1050	1750	2.0	1.56	35.1	1300	2000	2.0	1.56	195	225	302	303	285	284	249	236	386	384			
150	6.0	2.2	33.8	1200	2050	2.0	1.56	36.5	1450	2300	2.0	1.56	224	249	339	340	317	313	276	260	434	429			
185	6.0	2.2	35.7	1350	2400	2.0	1.56	38.4	1600	2650	2.0	1.56	280	279	389	387	355	346	308	286	494	485			
240	6.0	2.2	38.1	1550	2900	2.0	1.72	41.1	1900	3200	2.0	1.72	321	316	455	449	404	387	350	320	575	556			
300	6.0	2.2	40.2	1775	3450	2.0	1.72	43.2	2100	3600	2.0	1.72	355	343	501	501	442	413	382	339	644	611			
400	6.0	2.4	43.8	2150	4400	2.0	1.88	47.0	2425	4650	2.0	1.88	400	380	594	571	490	449	422	367	734	683			
500	6.0	2.6	47.2	2550	5350	2.5	2.04	51.3	2800	5600	2.5	2.04	447	417	678	641	538	482	462	393	825	753			
630	6.0	2.6	50.8	3000	6500	2.5	2.04	54.9	3450	7000	2.5	2.04	496	453	770	715	586	513	501	416	920	823			
800	6.0	2.8	55.5	3600	8100	2.5	2.2	59.5	4100	8600	2.5	2.2	543	486	866	789	629	540	550	447	1014	890			
1000	6.0	3.0	61.2	4350	9950	2.5	2.36	65.1	4850	10500	2.5	2.36	572	508	944	851	643	552	560	453	1074	938			

SINGLE CORE COMPACTED ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, UNARMORED & ARMORED CABLE CONFORMING TO IS: 7098 (PART-2)

Voltage Grade : 19/33 kV (E)

WEIGHT & DIMENSIONS

Nominal Size of stranded, class-2 conductor as per IS: 8130	Unarmoured Cable				Armoured cable				Current Rating																
	Nom thickness of XLPE Insulation	Nom thickness of Outer Sheath	Approx Overall diameter of Cable with ± 3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Nom diameter of Al wire	Min thickness of Outer Sheath	Approx Overall diameter of Cable with ± 3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Aluminium			Copper			Buried Direct in the Ground @ 30°C			In Air @ 40°C					
											In Single way Duct @ 30°C		Flat Touching		Trefoil Touching		In Single way Duct @ 30°C		Flat Touching		Trefoil Touching		Buried Direct in the Ground @ 30°C		Flat Touching
	mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	Amps	Trefoil Touching	Flat Touching	Amps	Trefoil Touching	Flat Touching	Amps	Trefoil Touching	Flat Touching	Amps	Trefoil Touching	Flat Touching	Amps	Trefoil Touching	Flat Touching
120	8.8	2.2	38.2	1400	2050	2.0	1.72	41.4	1700	2400	2.0	1.72	224	225	302	303	285	284	249	236	386	384			
150	8.8	2.2	39.6	1500	2350	2.0	1.72	42.8	1850	2700	2.0	1.72	249	249	339	340	317	313	276	260	434	429			
185	8.8	2.4	41.9	1700	2700	2.0	1.72	44.7	2000	3050	2.0	1.72	280	279	389	387	355	346	308	286	494	485			
240	8.8	2.4	44.3	1900	3250	2.0	1.88	47.5	2300	3650	2.0	1.88	321	316	455	449	404	387	350	320	575	556			
300	8.8	2.6	46.8	2150	3650	2.5	2.04	50.9	2750	4400	2.5	2.04	355	343	501	501	442	413	382	339	644	611			
400	8.8	2.6	49.8	2600	4650	2.5	2.04	54.1	3150	5400	2.5	2.04	400	380	594	571	490	449	422	367	734	683			
500	8.8	2.8	53.2	3000	5650	2.5	2.20	57.4	3600	6400	2.5	2.20	447	417	678	641	538	482	462	393	825	753			
630	8.8	2.8	56.8	3500	7050	2.5	2.20	61.0	4100	7650	2.5	2.20	496	453	770	715	586	513	501	416	920	823			
800	8.8	3.0	61.5	4150	8650	2.5	2.36	65.6	4800	9300	2.5	2.36	543	486	866	789	629	540	550	447	1014	890			
1000	8.8	3.2	67.2	4950	10600	3.15	2.52	72.5	5900	10500	3.15	2.52	572	508	944	851	643	552	560	453	1074	938			

THREE CORE, ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, ARMoured CABLE CONFORMING TO IS: 7098 (PART-2)

Voltage Grade : 1.9/3.3 kV (Unscreened) (E)

WEIGHT & DIMENSIONS

Nominal Size of stranded class-2 conductor as per IS: 8130	Form of conductor strand	Nom thickness of XLPE Insulation	Min thickness of PVC inner sheath	Strip Armoured Cable			Round Wire Armoured Cable			Current Rating									
				Nom Dimension of GI flat strip	Min Thickness of Outer sheath	Approx Overall diameter of Cable with ±3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Nom Dimension of GI Round wire	Min Thickness of Outer sheath	Approx Overall diameter of Cable with ±3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Aluminium	Copper				
Sq.mm.	0	mm	mm	mm x mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps	Amps	Amps
25	Circular	2.2	0.4	4 x 0.8	1.56	33.9	1500	1950	2.0	1.56	36.3	2000	2450	94	81	102	121	104	132
35	Circular	2.2	0.4	4 x 0.8	1.56	36.0	1700	2300	2.0	1.72	38.4	2300	2900	112	96	123	144	124	159
50	Circular	2.2	0.4	4 x 0.8	1.72	38.7	1975	2800	2.0	1.72	41.4	2550	3400	131	113	146	169	146	188
70	Circular	2.2	0.5	4 x 0.8	1.72	42.0	2350	3500	2.0	1.88	44.6	3000	4200	160	138	182	206	178	234
95	Circular	2.2	0.5	4 x 0.8	1.88	45.8	2800	4400	2.5	2.04	49.6	3900	5500	191	165	221	246	212	284
120	Circular	2.2	0.5	4 x 0.8	2.04	49.1	3350	5350	2.5	2.04	52.5	4550	6575	216	187	254	278	240	326
150	Circular	2.2	0.6	4 x 0.8	2.04	52.5	3600	6150	2.5	2.20	56.1	4900	7400	241	208	286	310	268	368
185	Circular	2.2	0.6	4 x 0.8	2.20	56.7	4200	7350	2.5	2.36	60.5	5600	8700	273	236	330	350	302	422
240	Circular	2.2	0.6	4 x 0.8	2.36	62.1	5100	9150	2.5	2.36	65.5	6550	10600	315	277	385	401	353	492
300	Circular	2.2	0.7	4 x 0.8	2.52	66.7	5900	11000	3.15	2.68	71.8	8200	13300	354	312	440	449	395	559
400	Circular	2.2	0.7	4 x 0.8	2.68	73.8	7400	14200	3.15	2.84	78.9	10000	16800	403	355	512	506	445	642

THREE CORE, ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, ARMoured CABLE CONFORMING TO IS: 7098 (PART-2)

Voltage Grade : 3.3/3.3 kV (Screened) (UE)

WEIGHT & DIMENSIONS

Nominal Size of stranded class-2 conductor as per IS: 8130	Form of conductor strand	Nom thickness of XLPE Insulation	Min thickness of PVC inner sheath	Strip Armoured Cable			Round Wire Armoured Cable			Current Rating									
				Nom Dimension of GI flat strip	Min Thickness of Outer sheath	Approx Overall diameter of Cable with ±3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Nom Dimension of GI Round wire	Min Thickness of Outer sheath	Approx Overall diameter of Cable with ±3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Aluminium	Copper				
Sq.mm.	0	mm	mm	mm x mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps	Amps	Amps
25	Circular	2.2	0.4	4 x 0.8	1.56	33.9	1500	1950	2.0	1.56	36.3	2000	2450	94	81	102	121	104	132
35	Circular	2.2	0.4	4 x 0.8	1.56	36.0	1700	2300	2.0	1.72	38.4	2300	2900	112	96	123	144	124	159
50	Circular	2.2	0.4	4 x 0.8	1.72	38.7	1975	2800	2.0	1.72	41.4	2550	3400	131	113	146	169	146	188
70	Circular	2.2	0.5	4 x 0.8	1.72	42.0	2350	3500	2.0	1.88	44.6	3000	4200	160	138	182	206	178	234
95	Circular	2.2	0.5	4 x 0.8	1.88	45.8	2800	4400	2.5	2.04	49.6	3900	5500	191	165	221	246	212	284
120	Circular	2.2	0.5	4 x 0.8	2.04	49.1	3350	5350	2.5	2.04	52.5	4550	6575	216	187	254	278	240	326
150	Circular	2.2	0.6	4 x 0.8	2.04	52.5	3600	6150	2.5	2.20	56.1	4900	7400	241	208	286	310	268	368
185	Circular	2.2	0.6	4 x 0.8	2.20	56.7	4200	7350	2.5	2.36	60.5	5600	8700	273	236	330	350	302	422
240	Circular	2.2	0.6	4 x 0.8	2.36	62.1	5100	9150	2.5	2.36	65.5	6550	10600	315	277	385	401	353	492
300	Circular	2.2	0.7	4 x 0.8	2.52	66.7	5900	11000	3.15	2.68	71.8	8200	13300	354	312	440	449	395	559
400	Circular	2.2	0.7	4 x 0.8	2.68	73.8	7400	14200	3.15	2.84	78.9	10000	16800	403	355	512	506	445	642

THREE CORE, ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, ARMoured CABLE CONFORMING TO IS: 7098 (PART-2)

Voltage Grade : 3.8/6.6 kV (E)

WEIGHT & DIMENSIONS

Nominal Size of stranded, class-2 conductor as per IS: 8130	Form of conductor strand	Nom thickness of XLPE Insulation	Min thickness of PVC Inner sheath	Strip Armoured Cable			Round Wire Armoured Cable			Current Rating													
				Nom Dimension of GI flat strip	Min Thickness of Outer sheath	Approx Overall diameter of Cable with ±3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Nom Dimension of GI Round wire	Min Thickness of Outer sheath	Approx Overall diameter of Cable with ±3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Aluminium	Copper								
Sq.mm.	0	mm	mm	mm x mm	mm	mm	mm	mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps	Amps	Amps
25	Circular	2.8	0.4	4 x 0.8	1.56	36.8	1700	2150	2700	2.0	1.72	39.4	2300	2700	81	102	121	104	132				
35	Circular	2.8	0.4	4 x 0.8	1.72	39.1	1900	2500	3100	2.0	1.72	41.5	2500	3100	96	123	144	124	159				
50	Circular	2.8	0.5	4 x 0.8	1.72	41.4	2200	3050	3700	2.0	1.88	44.2	2850	3700	131	166	199	166	188				
70	Circular	2.8	0.5	4 x 0.8	1.88	45.2	2525	3700	4400	2.0	1.88	47.6	3200	4400	160	182	206	178	234				
95	Circular	2.8	0.5	4 x 0.8	1.88	48.7	2950	4550	5750	2.5	2.04	52.5	4150	5750	191	221	246	212	284				
120	Circular	2.8	0.6	4 x 0.8	2.04	52.5	3350	5550	6850	2.5	2.20	56.1	4850	6850	216	254	278	240	326				
150	Circular	2.8	0.6	4 x 0.8	2.20	55.6	3975	6500	7800	2.5	2.20	59.0	5250	7800	241	286	310	268	368				
185	Circular	2.8	0.6	4 x 0.8	2.20	59.6	4550	7650	9100	2.5	2.36	63.4	6000	9100	273	330	350	302	422				
240	Circular	2.8	0.7	4 x 0.8	2.36	65.3	5450	9500	11800	3.15	2.52	70.3	7725	11800	315	385	401	353	492				
300	Circular	3.0	0.7	4 x 0.8	2.52	71.0	6375	11400	13800	3.15	2.68	76.0	8750	13800	354	440	449	395	559				
400	Circular	3.3	0.7	4 x 0.8	2.84	79.3	8000	14750	18400	4.0	3.00	85.9	11975	18400	403	512	506	445	642				

THREE CORE, ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, ARMoured CABLE CONFORMING TO IS: 7098 (PART-2)

VOLTAGE GRADE : 6.35/11 kV (E) OR 6.6/6.6 kV (UE)

WEIGHT & DIMENSIONS

Nominal Size of stranded, class-2 conductor as per IS: 8130	Form of conductor strand	Nom thickness of XLPE Insulation	Min thickness of PVC Inner sheath	Strip Armoured Cable			Round Wire Armoured Cable			Current Rating															
				Nom Dimension of GI flat strip	Min Thickness of Outer sheath	Approx Overall diameter of Cable with ±3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Nom Dimension of GI Round wire	Min Thickness of Outer sheath	Approx Overall diameter of Cable with ±3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Aluminium	Copper										
Sq.mm.	0	mm	mm	mm x mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps	Amps	Amps
35	Circular	3.6	0.5	4 x 0.8	1.72	42.7	2200	2800	3500	2.0	1.88	45.3	2900	3500	112	124	144	125	160						
50	Circular	3.6	0.5	4 x 0.8	1.88	45.2	2550	3400	4500	2.5	2.04	48.8	3650	4500	131	148	169	146	191						
70	Circular	3.6	0.5	4 x 0.8	1.88	48.5	2850	4050	5200	2.5	2.04	52.1	4000	5200	161	184	207	179	237						
95	Circular	3.6	0.6	4 x 0.8	2.04	52.5	3350	4950	6350	2.5	2.20	56.1	4600	6350	190	222	245	213	286						
120	Circular	3.6	0.6	4 x 0.8	2.20	56.0	3900	5950	7700	2.5	2.20	59.4	5200	7700	216	256	278	241	329						
150	Circular	3.6	0.6	4 x 0.8	2.20	59.0	4400	6900	8350	2.5	2.36	62.8	5800	8350	242	288	311	269	371						
185	Circular	3.6	0.7	4 x 0.8	2.36	63.5	4925	8050	10250	3.15	2.52	68.3	7125	10250	273	330	349	308	422						
240	Circular	3.6	0.7	4 x 0.8	2.52	68.8	5950	10000	12400	3.15	2.68	73.7	8350	12400	315	387	401	354	493						
300	Circular	3.6	0.7	4 x 0.8	2.68	73.4	6800	11900	14450	3.15	2.84	78.3	9400	14450	354	441	449	396	560						
400	Circular	3.6	0.7	4 x 0.8	2.84	80.5	8200	14950	18800	4.0	3.00	87.1	12100	18800	404	512	506	446	643						

**THREE CORE, ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, ARMoured
CABLE CONFORMING TO IS: 7098 (PART-2)**

VOLTAGE GRADE : 11/11 kV (UE)

WEIGHT & DIMENSIONS

Nominal Size of stranded, class-2 conductor as per IS: 8130	Form of conductor strand	Nom thickness of XLPE Insulation	Min thickness of PVC inner sheath	Strip Armoured Cable			Round Wire Armoured Cable			Current Rating										
				Nom Dimension of GI flat strip	Min Thickness of Outer sheath	Approx Overall diameter of Cable with ±3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Nom Dimension of GI Round wire	Min Thickness of Outer sheath	Approx Overall diameter of Cable with ±3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Aluminium	Copper					
Sq.mm.	0	mm	mm	mm x mm	mm	mm	mm	mm	mm	mm	Kg./Km	Kg./Km	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps	Amps	Amps
35	Circular	5.5	0.5	4 x 0.8	2.04	51.3	3000	3400	2.5	2.20	55.5	4250	4850	112	97	124	144	125	160	160
50	Circular	5.5	0.6	4 x 0.8	2.20	54.0	3300	4150	2.5	2.20	57.8	4600	5400	131	114	148	169	146	191	191
70	Circular	5.5	0.6	4 x 0.8	2.20	57.3	3750	4950	2.5	2.36	61.5	5150	6300	161	139	184	207	179	237	237
95	Circular	5.5	0.6	4 x 0.8	2.36	61.3	4300	5900	3.15	2.52	66.7	6450	8050	190	165	222	245	213	286	286
120	Circular	5.5	0.7	4 x 0.8	2.36	64.6	4850	6850	3.15	2.52	70.0	7100	9150	216	188	256	278	241	329	329
150	Circular	5.5	0.7	4 x 0.8	2.52	67.8	5300	7850	3.15	2.68	73.3	7600	10150	242	209	288	311	269	371	371
185	Circular	5.5	0.7	4 x 0.8	2.68	72.2	5975	9100	3.15	2.84	77.6	8500	11600	273	240	330	349	308	422	422
240	Circular	5.5	0.7	4 x 0.8	2.84	77.4	6900	10950	3.15	3.00	82.9	9600	13700	315	278	387	401	354	493	493
300	Circular	5.5	0.7	4 x 0.8	3.0	82.2	7850	12900	4.0	3.00	89.0	11750	16800	354	312	441	449	396	560	560
400	Circular	5.5	0.7	4 x 0.8	3.0	89.1	9400	16150	4.0	3.00	96.0	13650	20400	404	356	512	506	446	643	643

**THREE CORE, ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, ARMoured
CABLE CONFORMING TO IS: 7098 (PART-2)**

VOLTAGE GRADE : 12.7/22 kV (E)

WEIGHT & DIMENSIONS

Nominal Size of stranded, class-2 conductor as per IS: 8130	Form of conductor strand	Nom thickness of XLPE Insulation	Min thickness of PVC inner sheath	Strip Armoured Cable			Round Wire Armoured Cable			Current Rating												
				Nom Dimension of GI flat strip	Min Thickness of Outer sheath	Approx Overall diameter of Cable with ±3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Nom Dimension of GI Round wire	Min Thickness of Outer sheath	Approx Overall diameter of Cable with ±3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Aluminium	Copper							
Sq.mm.	0	mm	mm	mm x mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg./Km	Kg./Km	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps
35	Circular	6.0	0.6	4 x 0.8	2.04	53.8	3150	3750	2.5	2.20	57.6	4450	5000	111	97	127	143	125	164	164		
50	Circular	6.0	0.6	4 x 0.8	2.20	56.5	3550	4400	2.5	2.36	60.2	4900	5750	130	116	152	167	150	196	196		
70	Circular	6.0	0.6	4 x 0.8	2.36	60.1	4100	5300	2.5	2.36	63.5	5500	6700	159	142	189	204	183	243	243		
95	Circular	6.0	0.7	4 x 0.8	2.36	63.7	4550	6150	3.15	2.52	68.7	6750	8550	189	169	227	243	217	293	293		
120	Circular	6.0	0.7	4 x 0.8	2.52	67.0	5100	7100	3.15	2.68	72.0	7400	9400	215	192	262	276	246	336	336		
150	Circular	6.0	0.7	4 x 0.8	2.68	70.2	5650	8200	3.15	2.68	74.9	8100	10650	239	214	294	307	275	378	378		
185	Circular	6.0	0.7	4 x 0.8	2.68	74.6	6300	9450	3.15	2.84	79.6	8950	12050	270	245	336	346	313	431	431		
240	Circular	6.0	0.7	4 x 0.8	2.84	80.0	7250	11300	4.0	3.00	86.7	11200	15250	312	282	393	398	360	503	503		
300	Circular	6.0	0.7	4 x 0.8	3.00	84.7	8200	13300	4.0	3.00	91.1	12300	17550	351	317	448	446	403	571	571		
400	Circular	6.0	0.7	4 x 0.8	3.00	91.2	9950	16750	4.0	3.00	97.6	14350	21000	400	361	519	503	453	655	655		

THREE CORE, ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, ARMoured CABLE CONFORMING TO IS: 7098 (PART-2)

Voltage Grade : 19/33 kV (E)

WEIGHT & DIMENSIONS

Nominal Size of stranded class-2 conductor as per IS: 8130	Form of conductor strand	Nom thickness of XLPE insulation	Min thickness of PVC inner sheath	Strip Armoured Cable			Round Wire Armoured Cable			Current Rating														
				Nom Dimension of GI flat strip	Min Thickness of Outer sheath	Approx Overall diameter of Cable with ±3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Nom Dimension of GI Round wire	Min Thickness of Outer sheath	Approx Overall diameter of Cable with ±3mm tolerance	Al Approx weight of cable	Cu Approx weight of cable	Aluminium	Copper									
Sq.mm.	0	mm	mm	mm x mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	
50	Circular	8.8	0.7	4 x 0.8	2.52	68.8	5150	5950	3.15	2.68	73.9	7500	8350	130	116	152	167	150	196	183	243	217	293	336
70	Circular	8.8	0.7	4 x 0.8	2.68	72.6	5550	6750	3.15	2.84	77.5	8100	9250	159	142	189	204	183	243	217	293	336	378	431
95	Circular	8.8	0.7	4 x 0.8	2.84	76.4	6200	7850	3.15	3.00	81.5	8850	10500	189	169	227	243	217	293	246	336	378	431	503
120	Circular	8.8	0.7	4 x 0.8	2.84	79.3	6900	8900	4.0	3.00	86.1	10800	12850	215	192	262	276	246	336	378	431	503	571	655
150	Circular	8.8	0.7	4 x 0.8	3.00	83.0	7450	10000	4.0	3.00	89.4	11400	13900	239	214	294	307	275	378	431	503	571	655	751
185	Circular	8.8	0.7	4 x 0.8	3.00	87.0	8200	11300	4.0	3.00	93.4	12300	15450	270	245	336	346	313	431	503	571	655	751	851
240	Circular	8.8	0.7	4 x 0.8	3.00	92.1	9300	13300	4.0	3.00	98.5	13650	17700	312	282	393	398	360	503	571	655	751	851	951
300	Circular	8.8	0.7	4 x 0.8	3.00	96.5	10250	15300	4.0	3.00	102.9	14850	19900	351	317	448	446	403	571	655	751	851	951	1051
400	Circular	8.8	0.7	4 x 0.8	3.00	103.0	11750	18500	4.0	3.00	109.4	16700	23450	400	361	519	503	453	655	751	851	951	1051	1151

PVC AND XLPE LT POWER CABLES

KEI INDUSTRIES LIMITED is manufactures LT Power Cables with PVC or XLPE insulation of voltage grade upto 3.3 kV conforming to various Indian and International Standard Specifications. KEI also manufactures other types of cables as listed at the end of this catalogue.

CROSS LINKED POLYETHYLENE (XLPE)

XLPE means cross-linked polyethylene or vulcanized polyethylene. The basic material is low density polyethylene. Polyethylene is a thermoset material consisting of long chain of hydrocarbon molecules. At elevated temperature, these molecules tend to move relative to one another so that the material becomes increasingly deformable and eventually melts at the temperature around 110°C.

By means of process similar to the vulcanization of rubber, the polyethylene molecules can be cross-linked. The process of cross-linking or vulcanization consists of producing chemical bonds at interval between the long molecular chain to give a "ladder" effect which prevents slippage between molecules. As a result of cross-linking the material becomes heat resistant and does not soften at higher temperatures. Further it has better resistance to stress cracking and good resistance to ageing in hot air. With the change of structure there is no adverse effect on electrical properties.

Advantages of KEI XLPE CABLES

- 3 Dielectric losses are very small
- 3 Higher current carrying capacity
- 3 Higher short circuit rating 250°C as against 160 °C for PVC
- 3 KEI XLPE can retain flexibility down upto - 40°C
- 3 Jointing and termination is easy
- 3 Light in weight
- 3 They are not prone to fatigue damages due to vibrations or loading cycles
- 3 Has better resistance to most chemicals, oils, acids, etc.
- 3 Can be installed along cable routes without elevation limitations

Comparison of main properties between PVC and XLPE Insulation

Characteristics	Unit	PVC	XLPE
Permittivity (50 Hz, 20° C)	----	4-6	2.3
Dielectric Loss Factor (50 Hz, 20° C)	----	0.05-0.07	0.0004
Volume Resistivity (Insulation Resistance) (27° C)	Ohm-cm (min)	10 ¹³	10 ¹⁴
Maximum Conductor Temperature during continuous operation	Deg C	70	90
Maximum Conductor Temperature during short circuit	Deg C	160	250
Tensile Strength	N/mm ² (min)	12.5	12.5
% Elongation at break	----	Excellent	Medium
Flexibility at 10° C	----	Poor	Good
Resistance to abrasion	----	Medium	Good

2 CORE COPPER GENERAL PURPOSE 70°C ARMoured & UNARMoured PVC ARMoured & UNARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of PVC Insulation (Nom)	Min thickness of PVC inner Sheath	ARMoured				UNARMoured				Max D.C Resistance of Conductor at 20 °C	Approx A.C Resistance of Conductor at 70 °C	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	CURRENT RATINGS (a.c.)			
				Nominal Dimension of Armour		Min. Thickness of PVC Outer Sheath		Approx Overall diameter of Cable with ± 2 mm tolerance		Approx. Net Wt. of Cable	Nom Thickness of PVC Outer sheath					Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Buried Direct in the Ground @ 30 °C	In Air @ 40 °C
				Strip	Wire	Strip	Wire	Strip	Wire										
Sq.mm	No's	mm	mm	mm	mm	mm	mm	mm	mm	(Kg/Km)	(Kg/Km)	mm	mm	Kg/Km	Ohms/Km	uF/Km	Amps	Amps	
2C x 1.5	1	0.8	0.3	---	1.4	---	1.24	---	14.0	---	400	1.8	12.2	175	12.1	0.14	25	22	20
2C x 2.5	1	0.9	0.3	---	1.4	---	1.24	---	15.2	---	475	1.8	13.0	225	7.41	0.119	33	28	26
2C x 4	7	1.0	0.3	---	1.4	---	1.24	---	16.8	---	550	1.8	15.0	300	4.61	0.116	43	37	36
2C x 6	7	1.0	0.3	---	1.4	---	1.24	---	17.8	---	650	1.8	16.0	350	3.08	0.110	54	46	45
2C x 10	7	1.0	0.3	---	1.4	---	1.24	---	19.8	---	800	1.8	18.0	475	1.83	0.100	72	61	61
2C x 16	6	1.0	0.3	4 x 0.8	1.6	1.4	1.4	18.8	20.4	700	850	1.8	18.0	500	1.15	0.097	94	79	79
2C x 25	6	1.2	0.3	4 x 0.8	1.6	1.4	1.4	20.8	22.4	940	1100	2.0	20.4	725	0.727	0.097	121	102	106
2C x 35	6	1.2	0.3	4 x 0.8	1.6	1.4	1.4	21.8	23.4	1150	1400	2.0	21.4	925	0.524	0.097	145	122	129
2C x 50	6	1.4	0.3	4 x 0.8	1.6	1.4	1.56	24.3	26.2	1500	1750	2.0	23.9	1250	0.387	0.094	172	144	157
2C x 70	12	1.4	0.3	4 x 0.8	1.6	1.56	1.56	26.7	28.3	1950	2250	2.0	26.0	1600	0.268	0.090	210	176	197
2C x 95	15	1.6	0.4	4 x 0.8	2.0	1.56	1.56	30.2	32.6	2500	3000	2.2	29.9	2150	0.193	0.090	250	210	241
2C x 120	18	1.6	0.4	4 x 0.8	2.0	1.56	1.72	31.7	34.4	3000	3550	2.2	31.4	2650	0.153	0.087	281	237	275
2C x 150	18	1.8	0.4	4 x 0.8	2.0	1.72	1.72	35.4	37.8	3650	4250	2.4	35.2	3250	0.124	0.087	313	264	313
2C x 185	30	2.0	0.5	4 x 0.8	2.0	1.88	1.88	39.1	41.5	4450	5050	2.4	38.5	3950	0.0991	0.087	351	297	358
2C x 240	34	2.2	0.5	4 x 0.8	2.5	2.04	2.04	42.5	45.9	5600	6450	2.6	42.0	5050	0.0754	0.087	401	340	420
2C x 300	34	2.4	0.6	4 x 0.8	2.5	2.20	2.20	48.5	51.9	6900	8025	2.8	48.1	6250	0.0401	0.072	445	378	477
2C x 400	53	2.6	0.7	4 x 0.8	3.15	2.36	2.32	53.4	58.1	8850	10750	3.2	52.5	8250	0.0470	0.086	495	421	543

3 CORE, ALUMINIUM CONDUCTOR, GENERAL PURPOSE 70°C PVC INSULATED, ARMoured & UNARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of PVC Insulation (Nom)	Min thickness of PVC inner Sheath	ARMoured				UNARMoured				Max D.C Resistance of Conductor at 20 °C	Approx A.C Resistance of Conductor at 70 °C	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	CURRENT RATINGS (a.c.)			
				Nominal Dimension of Armour		Min. Thickness of PVC Outer sheath		Approx Overall diameter of Cable with ± 2 mm tolerance		Approx. weight of cable	Nom Thickness of PVC Outer sheath					Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Buried Direct in the Ground @ 30 °C	In Air @ 40 °C
				Strip	Wire	Strip	Wire	Strip	Wire										
Sq.mm	No's	mm	mm	mm	mm	mm	mm	mm	mm	(Kg/Km)	(Kg/Km)	mm	mm	Kg/Km	Ohm/Km	uF/Km	Amps	Amps	
3C x 1.5	1	0.8	0.3	---	1.4	---	1.24	---	14.5	---	420	1.8	12.7	175	18.1	0.126	18	15	14
3C x 2.5	1	0.9	0.3	---	1.4	---	1.24	---	15.8	---	500	1.8	14.0	225	12.1	0.119	22	19	18
3C x 4	3	1.0	0.3	---	1.4	---	1.24	---	17.6	---	550	1.8	15.8	275	7.41	0.116	29	25	24
3C x 6	3	1.0	0.3	---	1.4	---	1.24	---	18.6	---	625	1.8	16.8	325	4.61	0.110	38	32	32
3C x 10	7	1.0	0.3	---	1.4	---	1.4	---	21.2	---	750	1.8	19.0	400	3.08	0.100	47	40	40
3C x 16	6	1.0	0.3	4 x 0.8	1.6	1.4	1.4	18.6	20.2	600	750	1.8	17.8	375	1.91	0.097	61	51	52
3C x 25	6	1.2	0.3	4 x 0.8	1.6	1.4	1.4	21.3	22.9	750	1000	2.0	20.9	575	1.20	0.097	78	66	70
3C x 35	6	1.2	0.3	4 x 0.8	1.6	1.4	1.4	23.1	24.7	900	1150	2.0	22.7	700	0.868	0.097	94	79	85
3C x 50	6	1.4	0.3	4 x 0.8	1.6	1.56	1.56	26.4	28.0	1150	1450	2.0	25.7	900	0.441	0.094	111	93	104
3C x 70	12	1.4	0.4	4 x 0.8	2.0	1.56	1.56	29.9	32.0	1450	2000	2.2	29.3	1150	0.443	0.090	136	115	131
3C x 95	15	1.6	0.4	4 x 0.8	2.0	1.56	1.72	33.8	36.2	1800	2450	2.2	33.3	1450	0.320	0.090	163	138	162
3C x 120	15	1.6	0.4	4 x 0.8	2.0	1.72	1.72	37.0	39.4	2150	2800	2.2	36.4	1750	0.253	0.087	185	156	186
3C x 150	15	1.8	0.5	4 x 0.8	2.0	1.88	1.88	40.1	42.5	2600	3250	2.4	39.5	2150	0.206	0.087	206	175	212
3C x 185	30	2.0	0.5	4 x 0.8	2.5	1.88	2.04	44.2	47.9	3100	4250	2.6	44.0	2650	0.164	0.087	234	198	245
3C x 240	30	2.2	0.6	4 x 0.8	2.5	2.20	2.20	50.3	53.7	4000	5150	2.8	49.9	3550	0.125	0.087	271	230	291
3C x 300	30	2.4	0.6	4 x 0.8	2.5	2.36	2.36	55.0	58.4	4800	6100	3.0	54.7	4050	0.100	0.086	305	260	335
3C x 400	53	2.6	0.7	4 x 0.8	3.15	2.52	2.68	62.6	67.7	6000	8200	3.4	62.8	5200	0.0778	0.086	348	297	390

3 CORE, COPPER CONDUCTOR, GENERAL PURPOSE 70°C PVC INSULATED, ARMORED & UNARMORED POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of PVC Insulation (nom)	Min thickness of PVC Inner Sheath	ARMORED			UNARMORED			Max.DC Resistance of Conductor at 20°C	Approx.A.C Resistance of Conductor at 70°C	Approx Reactance at 50 Hz	CURRENT RATINGS (a.c.)					
				Nominal Dimension of Armour		Min Thickness of PVC Outer sheath		Approx Overall diameter of Cable with ± 2 mm tolerance					Approx weight of cable		Approx Capacitance at 50 Hz	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	
Sq.mm	No's	mm	mm	Strip	Wire	Strip	Wire	Strip	Wire	(Kg/Km)	(Kg/Km)	mm	mm	Ohm/Km	uF/Km	Amps	Amps	
3C x 1.5	1	0.8	0.3	---	1.4	---	1.24	---	14.5	---	450	1.8	12.7	200	0.14	21	18	17
3C x 2.5	1	0.9	0.3	---	1.4	---	1.24	---	15.8	---	525	1.8	14.0	250	0.119	28	24	23
3C x 4	7	1.0	0.3	---	1.4	---	1.24	---	17.6	---	625	1.8	15.8	350	0.116	37	31	30
3C x 6	7	1.0	0.3	---	1.4	---	1.24	---	18.6	---	725	1.8	16.8	425	0.110	46	39	39
3C x 10	7	1.0	0.3	---	1.4	---	1.4	---	21.2	---	950	1.8	19.0	575	0.100	61	51	53
3C x 16	6	1.0	0.3	4 x 0.8	1.6	1.4	1.4	18.6	20.2	850	1050	1.8	17.8	650	0.097	78	66	67
3C x 25	6	1.2	0.3	4 x 0.8	1.6	1.4	1.4	21.3	22.9	1200	1400	2.0	20.9	1000	0.097	101	85	90
3C x 35	6	1.2	0.3	4 x 0.8	1.6	1.4	1.4	23.1	24.7	1550	1800	2.0	22.7	1300	0.097	121	102	110
3C x 50	6	1.4	0.3	4 x 0.8	1.6	1.56	1.56	26.4	28.0	2000	2300	2.0	25.7	1750	0.094	143	120	134
3C x 70	12	1.4	0.4	4 x 0.8	2.0	1.56	1.56	29.9	32.0	2700	3150	2.2	29.3	2350	0.090	175	147	169
3C x 95	15	1.6	0.4	4 x 0.8	2.0	1.56	1.72	33.8	36.2	3550	4150	2.2	33.3	3100	0.090	210	177	209
3C x 120	18	1.6	0.4	4 x 0.8	2.0	1.72	1.72	37.0	39.4	4350	5000	2.2	36.4	3800	0.087	237	200	238
3C x 150	18	1.8	0.5	4 x 0.8	2.0	1.88	1.88	40.1	42.5	5300	5950	2.4	39.5	4700	0.087	265	224	272
3C x 185	30	2.0	0.5	4 x 0.8	2.5	1.88	2.04	44.2	47.9	6450	7400	2.6	44.0	5800	0.087	300	254	314
3C x 240	34	2.2	0.6	4 x 0.8	2.5	2.20	2.20	50.3	53.7	8200	9500	2.8	49.9	7400	0.087	345	293	371
3C x 300	34	2.4	0.6	4 x 0.8	2.5	2.36	2.36	55.0	58.4	10000	11400	3.0	54.7	9100	0.072	387	330	425
3C x 400	53	2.6	0.7	4 x 0.8	3.15	2.52	2.68	62.6	67.7	13050	15300	3.4	62.8	12100	0.067	436	372	490

3.5 CORE, COPPER CONDUCTOR, GENERAL PURPOSE 70°C PVC INSULATED, ARMORED POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No. of wires (main/neutral)	Thickness of PVC Insulation (nom) (main/neutral)	Min thickness of PVC Inner Sheath	Nominal Dimension of Armour		Min Thickness of PVC Outer sheath		Approx Overall diameter of Cable with ± 2 mm tolerance		Approx weight of cable		Max D.C Resistance of Conductor at 20°C	Approx.A.C Resistance of Conductor at 70°C	Approx Reactance at 50 Hz	CURRENT RATINGS (a.c.)			
				Strip	Wire	Strip	Wire	Strip	Wire	Strip	Wire				Buried Direct in the Ground buried Duct @ 30°C	In Single way buried Duct @ 30°C		
Sq.mm	No's	mm	mm	mm x mm	mm	mm	mm	mm	mm	mm	mm	(Kg/Km)	(Kg/Km)	Ohm/Km	uF/Km	Amps	Amps	
3.5C x 25/16	6/6	1.2/1.0	0.3	4 x 0.8	1.6	1.4	1.4	23.8	25.4	1400	1700	0.727	0.872	0.097	0.86	101	85	90
3.5C x 35/16	6/6	1.2/1.0	0.3	4 x 0.8	1.6	1.4	1.4	24.8	26.4	1700	2000	0.524	0.629	0.097	0.98	121	102	110
3.5C x 50/25	6/6	1.4/1.2	0.3	4 x 0.8	1.6	1.56	1.56	28.4	30.0	2350	2600	0.387	0.444	0.094	1.02	143	120	134
3.5C x 70/35	12/6	1.4/1.2	0.4	4 x 0.8	2.0	1.56	1.56	32.5	34.9	3100	3650	0.268	0.322	0.09	1.18	175	147	169
3.5C x 95/50	15/6	1.6/1.4	0.4	4 x 0.8	2.0	1.56	1.72	36.2	38.9	4100	4700	0.193	0.232	0.09	1.2	210	177	209
3.5C x 120/70	18/12	1.6/1.4	0.5	4 x 0.8	2.0	1.72	1.88	39.3	42.1	5050	5700	0.153	0.184	0.087	1.31	237	200	238
3.5C x 150/70	18/12	1.8/1.4	0.5	4 x 0.8	2.0	1.88	1.88	44.0	46.4	6050	6800	0.124	0.149	0.087	1.31	265	224	272
3.5C x 185/95	30/15	2.0/1.6	0.5	4 x 0.8	2.5	2.04	2.04	48.8	52.2	7400	8600	0.0991	0.119	0.087	1.31	300	254	314
3.5C x 240/120	34/18	2.2/1.6	0.6	4 x 0.8	2.5	2.2	2.36	55.2	58.9	9450	10500	0.0754	0.090	0.087	1.34	345	293	371
3.5C x 300/150	34/18	2.4/1.8	0.6	4 x 0.8	3.15	2.36	2.52	59.7	64.7	11500	13500	0.0601	0.072	0.086	1.41	387	330	425
3.5C x 400/185	53/30	2.6/2.0	0.7	4 x 0.8	3.15	2.68	2.68	68.6	73.3	14850	17250	0.047	0.056	0.086	1.45	436	372	490

3.5 CORE, COPPER CONDUCTOR, GENERAL PURPOSE 70°C PVC INSULATED, UNARMORED POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires (main/neutral)	Thickness of PVC Insulation (nom) (main/neutral)	T Min thickness of PVC Inner Sheath	Nom Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Max D.C Resistance of Conductor at 20°C	Approx.A.C Resistance of Conductor at 70°C	Approx Capacitance	CURRENT RATINGS (a.c.)		
										Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	
Sq.mm	No's	mm	mm	mm	Kg/Km	Ohm/Km	uF/Km	Amps	Amps	Amps	Amps	
3.5C x 25/16	6/6	1.2/1.0	0.3	2.0	23.4	1150	0.727	0.872	0.86	101	85	90
3.5C x 35/16	6/6	1.2/1.0	0.3	2.0	24.4	1450	0.524	0.629	0.98	121	102	110
3.5C x 50/25	6/6	1.4/1.2	0.3	2.0	27.7	2000	0.387	0.444	1.02	143	120	134
3.5C x 70/35	12/6	1.4/1.2	0.4	2.2	32.2	2700	0.268	0.322	1.18	175	147	169
3.5C x 95/50	15/6	1.6/1.4	0.4	2.2	35.9	3600	0.193	0.232	1.2	210	177	209
3.5C x 120/70	18/12	1.6/1.4	0.5	2.4	39.1	4500	0.153	0.184	1.31	237	200	238
3.5C x 150/70	18/12	1.8/1.4	0.5	2.4	43.4	5400	0.124	0.149	1.31	265	224	272
3.5C x 185/95	30/15	2.0/1.6	0.5	2.6	48.3	6700	0.0991	0.119	1.31	300	254	314
3.5C x 240/120	34/18	2.2/1.6	0.6	3.0	55.2	8600	0.0754	0.090	1.34	345	293	371
3.5C x 300/150	34/18	2.4/1.8	0.6	3.2	59.8	10500	0.0601	0.072	1.41	387	330	425
3.5C x 400/185	53/30	2.6/2.0	0.7	3.4	68.4	13900	0.047	0.056	1.45	436	372	490

3.5 CORE ALUMINIUM CONDUCTOR, GENERAL PURPOSE 70°C PVC INSULATED, ARMOURED POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires (main/neutral)	Thickness of PVC Insulation (nom) (main/neutral)	Min thickness of PVC Inner Sheath	Nominal Dimension of Armour		Min Thickness of PVC Outer sheath		Approx weight of cable		Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 70°C	Approx Capacitance at 50 Hz	CURRENT RATINGS (a.c.)	
				Strip	Wire	Strip	Wire	Strip	Wire				Buried Direct in the Ground buried Duct @ 30°C	In Air @ 40°C
Sq.mm	No's	mm	mm	mm x mm	mm	mm	mm	(Kg/Km)	(Kg/Km)	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps
3.5C x 25/16	6/6	1.2/1.0	0.3	4 x 0.8	1.6	1.40	1.40	23.8	25.4	900	1150	0.86	78	66
3.5C x 35/16	6/6	1.2/1.0	0.3	4 x 0.8	1.6	1.40	1.40	24.8	26.4	1000	1300	0.98	94	79
3.5C x 50/25	6/6	1.4/1.2	0.3	4 x 0.8	1.6	1.56	1.56	28.4	30.0	1300	1600	1.02	111	93
3.5C x 70/35	12/6	1.4/1.2	0.4	4 x 0.8	2.0	1.56	1.56	32.5	34.9	1650	2200	1.18	136	115
3.5C x 95/50	15/6	1.6/1.4	0.4	4 x 0.8	2.0	1.56	1.72	36.2	38.9	2075	2700	1.20	163	138
3.5C x 120/70	15/12	1.6/1.4	0.5	4 x 0.8	2.0	1.72	1.88	39.3	42.1	2500	3200	1.31	185	156
3.5C x 150/70	15/12	1.8/1.4	0.5	4 x 0.8	2.0	1.88	1.88	44.0	46.4	3000	3700	1.31	206	175
3.5C x 185/95	30/15	2.0/1.6	0.5	4 x 0.8	2.5	2.04	2.04	48.8	52.2	3600	4850	1.31	234	198
3.5C x 240/120	30/15	2.2/1.6	0.6	4 x 0.8	2.5	2.20	2.36	55.2	58.9	4600	5750	1.34	271	230
3.5C x 300/150	30/15	2.4/1.8	0.6	4 x 0.8	3.15	2.36	2.52	59.7	64.7	5400	7600	1.41	305	260
3.5C x 400/185	53/30	2.6/2.0	0.7	4 x 0.8	3.15	2.68	2.68	68.6	73.3	6850	9300	1.45	348	297

3.5 CORE, ALUMINIUM CONDUCTOR, GENERAL PURPOSE 70°C PVC INSULATED, UNARMOURED POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires (main/neutral)	Thickness of PVC Insulation (nom) (main/neutral)	Min thickness of PVC Inner Sheath	Nom Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable (Kg/Km)	Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 70°C	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	CURRENT RATINGS (a.c.)	
											Buried Direct in the Ground @ 30°C	In Air @ 40°C
Sq.mm	No's	mm	mm	mm	mm	Kg/Km	Ohm/Km	Ohm/Km	uF/Km	Ohm/Km	Amps	Amps
3.5C x 25/16	6/6	1.2/1.0	0.3	2.0	23.4	650	1.20	1.44	0.097	0.86	78	66
3.5C x 35/16	6/6	1.2/1.0	0.3	2.0	24.4	750	0.868	1.042	0.097	0.98	94	79
3.5C x 50/25	6/6	1.4/1.2	0.3	2.0	27.7	1025	0.641	0.769	0.094	1.02	111	93
3.5C x 70/35	12/6	1.4/1.2	0.4	2.2	32.2	1350	0.443	0.532	0.090	1.18	136	115
3.5C x 95/50	15/6	1.6/1.4	0.4	2.2	35.9	1700	0.320	0.384	0.090	1.20	163	138
3.5C x 120/70	15/12	1.6/1.4	0.5	2.4	39.1	2100	0.253	0.304	0.087	1.31	185	156
3.5C x 150/70	15/12	1.8/1.4	0.5	2.4	43.4	2500	0.206	0.247	0.087	1.31	206	175
3.5C x 185/95	30/15	2.0/1.6	0.5	2.6	48.3	3025	0.164	0.197	0.087	1.31	234	198
3.5C x 240/120	30/15	2.2/1.6	0.6	3.0	55.2	3850	0.125	0.150	0.087	1.34	271	230
3.5C x 300/150	30/15	2.4/1.8	0.6	3.2	59.8	4750	0.100	0.120	0.086	1.41	305	260
3.5C x 400/185	53/30	2.6/2.0	0.7	3.4	68.4	6050	0.0778	0.093	0.086	1.45	348	297

4 CORE ALUMINIUM GENERAL PURPOSE 70°C PVC ARMOURED & UNARMOURED

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of PVC Insulation (nom)	Min thickness of PVC Inner Sheath	Nominal Dimension of Armour		ARMOURED		UNARMOURED		Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 70°C	Approx Capacitance at 50 Hz	CURRENT RATINGS (a.c.)	
				Strip	Wire	Strip	Wire	Nominal thickness of Outer Sheath	Overall Diameter (Approx ± 2mm)				Net Weight of Cable (Approx)	Buried Direct in the Ground @ 30°C
Sq.mm	No's	mm	mm	mm x mm	mm	mm	mm	mm	mm	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps
4C x 15	1	0.8	0.3	-	1.4	-	1.24	1.8	13.6	18.1	21.7	0.126	18	15
4C x 25	1	0.9	0.3	-	1.4	-	1.24	1.8	15.0	12.1	14.5	0.119	22	19
4C x 4	3	1.0	0.3	-	1.4	-	1.24	1.8	17.0	7.41	8.87	0.116	29	25
4C x 6	3	1.0	0.3	-	1.4	-	1.24	1.8	18.2	4.61	5.53	0.110	38	32
4C x 10	7	1.0	0.3	4 x 0.8	1.6	1.4	1.4	1.8	20.6	3.08	3.70	0.100	47	40
4C x 16	6	1.0	0.3	4 x 0.8	1.6	1.4	1.4	2.0	21.8	1.91	2.29	0.097	61	51
4C x 25	6	1.2	0.3	4 x 0.8	1.6	1.4	1.4	2.0	23.2	1.20	1.44	0.097	78	66
4C x 35	6	1.2	0.3	4 x 0.8	1.6	1.4	1.56	2.0	25.5	0.868	1.04	0.097	94	79
4C x 50	6	1.4	0.4	4 x 0.8	2.0	1.56	1.56	2.2	30.0	0.641	0.769	0.094	111	93
4C x 70	12	1.4	0.4	4 x 0.8	2.0	1.56	1.56	2.2	33.1	0.443	0.532	0.090	136	115
4C x 95	15	1.6	0.4	4 x 0.8	2.0	1.72	1.72	2.4	38.0	0.320	0.384	0.090	163	138
4C x 120	15	1.6	0.5	4 x 0.8	2.0	1.88	1.88	2.4	41.1	0.253	0.304	0.087	185	156
4C x 150	15	1.8	0.5	4 x 0.8	2.5	1.88	2.04	2.6	44.5	0.206	0.247	0.087	206	175
4C x 185	30	2.0	0.6	4 x 0.8	2.5	2.04	2.2	2.8	50.0	0.164	0.197	0.087	234	198
4C x 240	30	2.2	0.6	4 x 0.8	2.5	2.36	2.36	3.0	56.4	0.125	0.150	0.087	271	230
4C x 300	30	2.4	0.7	4 x 0.8	3.15	2.52	2.68	3.4	63.1	0.100	0.120	0.086	305	260
4C x 400	53	2.6	0.7	4 x 0.8	3.15	2.84	2.84	3.6	70.5	0.0778	0.093	0.086	348	297

4 CORE, COPPER CONDUCTOR, GENERAL PURPOSE 70°C PVC INSULATED, ARMoured & UNARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of PVC Insulation (Nom)	Min thickness of PVC inner Sheath	Nominal Dimension of Armour		Min Thickness of PVC Outer sheath		ARMoured		UNARMoured		Max.DC Resistance of Conductor at 20°C	Approx.A.C Resistance at 50 Hz	Approx Capacitance at 50 Hz	CURRENT RATINGS (a.c.)	
				Strip	Wire	Strip	Wire	Strip	Wire	Strip	Wire				Buried Direct in the Ground @ 30°C	In Single way In Air @ 40°C
Sq.mm	No's	mm	mm	mm x mm	mm	mm	mm	mm	mm	mm	Kg/Km	Ohm/Km	uF/Km	uF/Km	Amps	Amps
4C x 1.5	1	0.8	0.3	-	1.4	-	1.24	-	15.4	-	500	12.1	14.5	0.22	21	18
4C x 2.5	1	0.9	0.3	-	1.4	-	1.24	-	16.8	-	600	7.41	8.89	0.119	28	24
4C x 4	7	1.0	0.3	-	1.4	-	1.24	-	18.8	-	725	4.61	5.53	0.116	37	31
4C x 6	7	1.0	0.3	-	1.4	-	1.24	-	20.0	-	875	3.08	3.70	0.110	46	39
4C x 10	7	1.0	0.3	4 x 0.8	1.6	1.4	1.40	21.6	23.0	975	1.83	2.20	0.100	61	51	
4C x 16	6	1.0	0.3	4 x 0.8	1.6	1.4	1.40	22.2	23.8	1100	1.15	1.38	0.097	78	66	
4C x 25	6	1.2	0.3	4 x 0.8	1.6	1.4	1.40	23.6	25.2	1525	0.727	0.872	0.097	101	85	
4C x 35	6	1.2	0.3	4 x 0.8	1.6	1.4	1.56	25.9	27.8	1950	0.524	0.629	0.097	121	102	
4C x 50	6	1.4	0.4	4 x 0.8	2.0	1.56	1.56	30.3	32.7	2600	0.387	0.464	0.094	143	120	
4C x 70	12	1.4	0.4	4 x 0.8	2.0	1.56	1.56	33.4	35.8	3450	0.268	0.322	0.09	175	147	
4C x 95	15	1.6	0.4	4 x 0.8	2.0	1.72	1.72	38.2	40.6	4550	0.193	0.232	0.09	210	177	
4C x 120	18	1.6	0.5	4 x 0.8	2.0	1.88	1.88	41.7	44.1	5550	0.153	0.184	0.087	237	200	
4C x 150	18	1.8	0.5	4 x 0.8	2.5	1.88	2.04	44.7	48.4	6800	0.124	0.149	0.087	265	224	
4C x 185	30	2.0	0.6	4 x 0.8	2.5	2.04	2.20	50.1	53.8	8250	0.0991	0.119	0.087	300	254	
4C x 240	34	2.2	0.6	4 x 0.8	2.5	2.36	2.36	56.7	60.1	10500	0.0754	0.090	0.087	345	293	
4C x 300	34	2.4	0.7	4 x 0.8	3.15	2.52	2.68	62.9	66.0	13000	0.0601	0.072	0.086	387	330	
4C x 400	53	2.6	0.7	4 x 0.8	3.15	2.84	2.84	70.6	75.3	16800	0.047	0.056	0.086	436	372	

RATING FACTORS (XLPE)

The current ratings in Table - 1 & 2 based on the normal conditions of installation as described below:

- Maximum cond. temperature 90° C
- Ambient air temperature 40° C
- Ground temperature 30° C
- Depth of laying (for cable laid directly in ground) 75 cm (1.1 kv)
- Thermal resistivity of soil 150° C cm/watt
- Max-short-circuit conductor tempaure 250° C cm/watt
- Max Ambient Air temperature 55° C

Installation method and Rating factors are given in tables 1 to 4

Table 1

Rating for variations in ground temperature for cables laid directly in ground and in ducts

Ground temperature °C	15	20	25	30	35	40	45	50
Rating Factor	1.12	1.08	1.03	1.00	0.96	0.91	0.87	0.82

Table 2

Rating Factors for Variation in Ambient Air Temperature

Air temperature	20°C	25	30	35	40	45	50	55
Rating Factor	1.18	1.14	1.10	1.04	1.00	0.95	0.90	0.84

Table 3

Rating Factors of groups of cables laid directly in Ground in Horizontal formation

No. of Cables	Rating factor for Axial spacing			
	Touching	15 cm	30 cm	45 cm
2 cables	0.79	0.82	0.87	0.90
3 cables	0.69	0.75	0.79	0.83
4 cables	0.62	0.69	0.74	0.79
5 cables	0.58	0.65	0.72	0.76
6 cables	0.54	0.61	0.69	0.75

Table 4

Rating Factors for Variation in Depth of laying in Ground

Depth of laying	Size		
	Upto 25 mm ²	25 to 300 mm ²	Above 300 mm ²
75 cm	1.00	1.00	1.00
90 cm	0.99	0.98	0.97
105 cm	0.98	0.97	0.96
120 cm	0.97	0.96	0.95
150 cm	0.96	0.94	0.92
Above 180 cm	0.95	0.93	0.91

1 CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, ARMoured & UNARMoured & UNARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100V

Nominal Size of stranded, class-2 conductor as per IS: 8130	Min No of wires	ARMoured				UNARMoured				Max D.C Resistance of Conductor at 20°C	ARMoured		UNARMoured		CURRENT RATING							
		Thickness of XLPE Insulation (nom)	Nom Dimension of Armour wire	Min Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Thickness of XLPE Insulation (nom)	Nom Thickness of Outer sheath diameter of Cable with ± 2 mm tolerance	Approx weight of cable		Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	Ohm/Km	uF/Km	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C					
1C x 4	1	-	-	-	-	-	0.7	1.8	7.8	70	7.41	9.48	-	-	0.132	0.29	43	37	36	34	38	33
1C x 4	6	-	-	-	-	-	0.7	1.8	8.1	70	7.41	9.48	-	-	0.132	0.29	43	37	36	34	38	33
1C x 6	1	-	-	-	-	-	0.7	1.8	8.3	85	4.61	5.90	-	-	0.123	0.34	55	47	47	43	50	43
1C x 6	6	-	-	-	-	-	0.7	1.8	8.6	85	4.61	5.90	-	-	0.123	0.34	55	47	47	43	50	43
1C x 10	1	-	-	-	-	-	0.7	1.8	9.1	100	3.08	3.94	0.134	0.32	0.114	0.43	69	59	58	54	64	55
1C x 10	6	-	-	-	-	-	0.7	1.8	9.6	100	3.08	3.94	0.134	0.32	0.114	0.43	69	59	58	54	64	55
1C x 16	6	1.0	1.4	1.24	12.7	225	0.7	1.8	10.3	125	1.91	2.44	0.125	0.38	0.108	0.51	89	76	75	69	84	72
1C x 25	6	1.2	1.4	1.24	14.3	250	0.9	1.8	11.9	170	1.20	1.54	0.116	0.40	0.102	0.52	115	98	96	89	112	98
1C x 35	6	1.2	1.4	1.24	15.3	300	0.9	1.8	12.9	200	0.868	1.11	0.110	0.47	0.097	0.60	137	116	115	106	137	119
1C x 50	6	1.3	1.4	1.24	16.6	350	1.0	1.8	14.2	250	0.641	0.820	0.103	0.50	0.092	0.63	161	137	135	124	165	145
1C x 70	12	1.4	1.4	1.24	18.4	450	1.1	1.8	16.0	325	0.443	0.567	0.099	0.55	0.088	0.68	198	168	165	151	209	185
1C x 95	15	1.4	1.6	1.40	20.9	575	1.1	1.8	17.7	425	0.320	0.410	0.097	0.64	0.085	0.79	243	202	199	181	264	235
1C x 120	15	1.5	1.6	1.40	22.5	700	1.2	1.8	19.3	500	0.253	0.324	0.093	0.67	0.082	0.79	276	230	226	206	308	276
1C x 150	15	1.7	1.6	1.40	24.3	800	1.4	2.0	21.5	625	0.206	0.264	0.091	0.67	0.082	0.79	308	256	252	229	350	314
1C x 185	30	1.9	1.6	1.40	26.6	950	1.6	2.0	23.8	750	0.164	0.210	0.090	0.67	0.082	0.79	349	290	285	258	406	366
1C x 240	30	2.0	1.6	1.40	29.2	1150	1.7	2.0	26.4	925	0.125	0.160	0.086	0.72	0.079	0.84	404	335	329	298	480	434
1C x 300	30	2.1	1.6	1.56	31.9	1400	1.8	2.0	28.7	1100	0.100	0.128	0.085	0.75	0.078	0.86	454	376	349	333	551	500
1C x 400	53	2.4	2.0	1.56	36.3	1850	2.0	2.2	32.5	1450	0.0778	0.100	0.085	0.75	0.077	0.88	518	429	421	378	647	589
1C x 500	53	2.6	2.0	1.56	39.7	2200	2.2	2.2	35.9	1800	0.0605	0.077	0.083	0.77	0.076	0.9	588	485	476	426	751	685
1C x 630	53	2.8	2.0	1.72	44.1	2700	2.4	2.2	39.9	2200	0.0469	0.060	0.082	0.81	0.075	0.94	663	546	536	477	868	793
1C x 800	53	3.1	2.0	1.88	49.4	3350	2.6	2.4	45.0	2750	0.0367	0.047	0.081	0.88	0.075	0.97	740	608	596	528	992	907
1C x 1000	53	3.3	2.5	2.04	56.3	4200	2.8	2.6	51.1	3400	0.0291	0.037	0.081	0.88	0.068	1.01	812	665	652	575	1117	1022

1 CORE, COPPER CONDUCTOR, XLPE INSULATED, ARMoured & UNARMoured & UNARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100V

Nominal Size of stranded, class-2 conductor as per IS: 8130	Min No of wires	ARMoured				UNARMoured				Max D.C Resistance of Conductor at 20°C	ARMoured		UNARMoured		CURRENT RATING							
		Thickness of XLPE Insulation (nom)	Nom Dimension of Armour wire	Min Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Thickness of XLPE Insulation (nom)	Nom Thickness of Outer sheath diameter of Cable with ± 2 mm tolerance	Approx weight of cable		Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	Ohm/Km	uF/Km	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C					
1C x 4	1	-	-	-	-	-	0.7	1.8	7.8	95	4.61	5.90	-	-	0.132	0.29	54	47	46	43	48	41
1C x 4	7	-	-	-	-	-	0.7	1.8	8.1	100	4.61	5.90	-	-	0.132	0.29	54	47	46	43	48	41
1C x 6	1	-	-	-	-	-	0.7	1.8	8.3	115	3.08	3.94	-	-	0.123	0.34	67	58	57	53	61	52
1C x 6	7	-	-	-	-	-	0.7	1.8	8.6	125	3.08	3.94	-	-	0.123	0.34	67	58	57	53	61	52
1C x 10	7	1.0	1.4	1.24	12.0	225	0.7	1.8	9.6	170	1.83	2.34	0.134	0.32	0.114	0.43	90	77	76	70	83	71
1C x 16	6	1.0	1.4	1.24	12.7	300	0.7	1.8	10.3	210	1.15	1.47	0.125	0.38	0.108	0.51	115	98	97	89	108	94
1C x 25	6	1.2	1.4	1.24	14.3	375	0.9	1.8	11.9	300	0.727	0.931	0.116	0.40	0.102	0.52	148	126	124	114	144	126
1C x 35	6	1.2	1.4	1.24	15.3	450	0.9	1.8	12.9	400	0.524	0.671	0.110	0.47	0.097	0.60	177	150	148	136	176	154
1C x 50	6	1.3	1.4	1.24	16.6	625	1.0	1.8	14.2	550	0.387	0.495	0.103	0.50	0.092	0.63	208	177	174	160	212	187
1C x 70	12	1.4	1.4	1.24	18.4	825	1.1	1.8	16.0	725	0.268	0.343	0.099	0.55	0.088	0.68	255	216	213	195	269	238
1C x 95	15	1.4	1.6	1.40	20.9	1100	1.1	1.8	17.7	950	0.193	0.247	0.097	0.64	0.085	0.79	312	260	256	233	340	303
1C x 120	18	1.5	1.6	1.40	22.5	1350	1.2	1.8	19.3	1200	0.153	0.196	0.093	0.67	0.082	0.79	355	295	291	264	396	354
1C x 150	18	1.7	1.6	1.40	24.3	1650	1.4	2.0	21.5	1450	0.124	0.159	0.091	0.67	0.082	0.79	396	329	324	294	450	403
1C x 185	30	1.9	1.6	1.40	26.6	2000	1.6	2.0	23.8	1800	0.0991	0.127	0.090	0.67	0.082	0.79	447	371	365	330	519	468
1C x 240	34	2.0	1.6	1.40	29.2	2500	1.7	2.0	26.4	2300	0.0754	0.097	0.086	0.72	0.079	0.84	515	427	420	379	613	553
1C x 300	34	2.1	1.6	1.56	31.9	3000	1.8	2.0	28.7	2800	0.0601	0.077	0.085	0.75	0.078	0.86	576	477	469	422	700	634
1C x 400	53	2.4	2.0	1.56	36.3	4100	2.0	2.2	32.5	3750	0.0470	0.060	0.085	0.75	0.077	0.88	651	537	528	473	813	737
1C x 500	53	2.6	2.0	1.56	39.7	5000	2.2	2.2	35.9	4600	0.0366	0.047	0.083	0.77	0.076	0.90	727	598	589	525	930	844
1C x 630	53	2.8	2.0	1.72	44.1	6200	2.4	2.2	39.9	5800	0.0283	0.036	0.082	0.81	0.075	0.94	806	661	651	578	1056	961
1C x 800	53	3.1	2.0	1.88	49.4	7850	2.6	2.4	45.0	7200	0.0221	0.028	0.081	0.88	0.075	0.97	877	721	707	626	1179	1077
1C x 1000	53	3.3	2.5	2.04	56.3	9900	2.8	2.6	51.1	9100	0.0176	0.023	0.081	0.88	0.068	1.01	935	772	751	668	1288	1188

2 CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, ARMOURED POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Min No of wires	Thickness of XLPE Insulation (nom)	Min thickness of PVC Inner Sheath	Nominal Dimension of Armour		Min Thickness of PVC Outer sheath		Approx Overall diameter of Cable with ± 2 mm tolerance		Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	CURRENT RATINGS	
					Strip	Wire	Strip	Wire	Strip	Wire					Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C
Sq.mm	No's	mm	mm	mm	mm x mm	mm	mm	mm	mm	mm	Ohm/Km	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps
2C x 4	1	0.7	0.3	1.4	---	1.4	1.24	---	14.9	---	7.41	9.48	0.0927	0.065	42	38
2C x 4	3	0.7	0.3	1.4	---	1.4	1.24	---	15.6	---	7.41	9.48	0.0927	0.065	42	38
2C x 6	1	0.7	0.3	1.4	---	1.4	1.24	---	15.9	---	4.61	5.90	0.0884	0.071	55	50
2C x 6	3	0.7	0.3	1.4	---	1.4	1.24	---	16.6	---	4.61	5.90	0.0884	0.081	55	50
2C x 10	1	0.7	0.3	1.4	---	1.4	1.24	---	17.6	---	3.08	3.94	0.0837	0.081	68	64
2C x 10	7	0.7	0.3	1.4	---	1.4	1.24	---	18.6	---	3.08	3.94	0.0837	0.088	68	64
2C x 16	6	0.7	0.3	1.4	---	1.4	1.4	---	18.8	---	1.91	2.44	0.0808	0.089	89	74
2C x 25	6	0.9	0.3	1.4	4 x 0.8	1.6	1.4	19.6	21.2	550	1.20	1.54	0.08	0.096	114	95
2C x 35	6	0.9	0.3	1.4	4 x 0.8	1.6	1.4	20.6	22.2	650	0.868	1.11	0.08	0.098	136	133
2C x 50	6	1.0	0.3	1.4	4 x 0.8	1.6	1.4	22.7	24.3	800	0.641	0.820	0.078	0.10	161	162
2C x 70	12	1.1	0.3	1.4	4 x 0.8	1.6	1.56	25.5	27.1	1000	0.443	0.567	0.077	0.11	197	204
2C x 95	15	1.1	0.4	1.56	4 x 0.8	2.0	1.56	28.4	30.8	1250	0.320	0.410	0.074	0.11	235	196
2C x 120	15	1.2	0.4	1.56	4 x 0.8	2.0	1.56	30.3	32.7	1450	0.253	0.324	0.072	0.11	266	222
2C x 150	15	1.4	0.4	1.72	4 x 0.8	2.0	1.72	33.8	36.2	1750	0.206	0.264	0.072	0.11	296	248
2C x 185	30	1.6	0.5	1.88	4 x 0.8	2.0	1.88	37.1	39.9	2100	0.164	0.210	0.072	0.11	335	281
2C x 240	30	1.7	0.5	1.88	4 x 0.8	2.5	2.04	40.2	43.9	2550	0.125	0.160	0.072	0.11	385	324
2C x 300	30	1.8	0.6	2.04	4 x 0.8	2.5	2.20	45.8	49.5	3050	0.100	0.128	0.071	0.12	432	364
2C x 400	53	2.0	0.6	2.36	4 x 0.8	2.5	2.36	50.0	53.9	3900	0.0778	0.100	0.07	0.12	487	412

2 CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMOURED POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of XLPE Insulation (nom)	Min thickness of PVC Inner Sheath	Nom Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	Buried Direct in the Ground @ 30°C	CURRENT RATINGS	
												In Single way buried Duct @ 30°C	In Air @ 40°C
Sq.mm	No's	mm	mm	mm	mm	Kg/Km	Ohm/Km	Ohms/Km	Ohms/Km	uF/Km	Amps	Amps	
2C x 4	1	0.7	0.3	1.8	13.1	175	7.41	9.48	0.0927	0.065	42	38	
2C x 4	3	0.7	0.3	1.8	13.8	175	7.41	9.48	0.0927	0.065	42	38	
2C x 6	1	0.7	0.3	1.8	14.1	200	4.61	5.90	0.0884	0.071	55	50	
2C x 6	3	0.7	0.3	1.8	14.8	200	4.61	5.90	0.0884	0.081	55	50	
2C x 10	1	0.7	0.3	1.8	15.8	250	3.08	3.94	0.0837	0.081	68	64	
2C x 10	7	0.7	0.3	1.8	16.8	250	3.08	3.94	0.0837	0.088	68	64	
2C x 16	6	0.7	0.3	1.8	16.8	260	1.91	2.44	0.0808	0.089	89	74	
2C x 25	6	0.9	0.3	2.0	19.2	375	1.20	1.54	0.08	0.096	114	109	
2C x 35	6	0.9	0.3	2.0	20.2	450	0.868	1.11	0.08	0.098	136	133	
2C x 50	6	1.0	0.3	2.0	22.3	575	0.641	0.820	0.078	0.10	161	162	
2C x 70	12	1.1	0.3	2.0	24.8	725	0.443	0.567	0.077	0.11	197	204	
2C x 95	15	1.1	0.4	2.2	28.1	950	0.320	0.410	0.074	0.11	235	251	
2C x 120	15	1.2	0.4	2.2	30.0	1100	0.253	0.324	0.072	0.11	266	287	
2C x 150	15	1.4	0.4	2.2	33.2	1400	0.206	0.264	0.072	0.11	296	328	
2C x 185	30	1.6	0.5	2.4	36.9	1650	0.164	0.210	0.072	0.11	335	379	
2C x 240	30	1.7	0.5	2.6	40.0	2050	0.125	0.160	0.072	0.11	385	448	
2C x 300	30	1.8	0.6	2.8	45.7	2500	0.100	0.128	0.071	0.12	432	513	
2C x 400	53	2.0	0.6	3.0	50.2	3250	0.0778	0.100	0.07	0.12	487	593	

2 CORE, COPPER CONDUCTOR, XLPE INSULATED, ARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of XLPE insulation (nom)	Min thickness of PVC inner Sheath	Nominal Dimension of Armour		Min Thickness of PVC Outer sheath		Approx Overall diameter of Cable with ± 2 mm tolerance		Approx weight of cable		Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Reactance at 50 Hz	Approx Capacitance at 30 Hz	CURRENT RATINGS		
				Strip	Wire	Strip	Wire	Strip	Wire	Strip	Wire					Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
Sq.mm	No's	mm	mm	mm x mm	mm	mm	mm	mm	mm	(Kg/Km)	(Kg/Km)	Ohm/Km	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps	Amps
2C x 4	1	0.7	0.3	---	1.4	---	1.24	---	14.9	---	450	4.61	5.90	0.0927	0.065	54	45	48
2C x 4	7	0.7	0.3	---	1.4	---	1.24	---	15.6	---	450	4.61	5.90	0.0927	0.065	54	45	48
2C x 6	1	0.7	0.3	---	1.4	---	1.24	---	15.9	---	525	3.08	3.94	0.0884	0.071	67	56	61
2C x 6	7	0.7	0.3	---	1.4	---	1.24	---	16.6	---	525	3.08	3.94	0.0884	0.071	67	56	61
2C x 10	7	0.7	0.3	---	1.4	---	1.24	---	18.6	---	675	1.83	2.34	0.0837	0.081	89	75	83
2C x 16	6	0.7	0.3	---	1.4	---	1.4	---	18.8	---	775	1.15	1.47	0.0808	0.088	115	96	108
2C x 25	6	0.9	0.3	4 x 0.8	1.6	1.4	1.4	19.6	21.2	850	1025	0.727	0.931	0.08	0.089	147	122	140
2C x 35	6	0.9	0.3	4 x 0.8	1.6	1.4	1.4	20.6	22.2	1050	1250	0.524	0.671	0.08	0.096	176	146	172
2C x 50	6	1.0	0.3	4 x 0.8	1.6	1.4	1.4	22.7	24.3	1400	1600	0.387	0.495	0.078	0.098	208	173	208
2C x 70	12	1.1	0.3	4 x 0.8	1.6	1.56	1.56	25.5	27.1	1825	2050	0.268	0.343	0.077	0.10	253	211	262
2C x 95	15	1.1	0.4	4 x 0.8	2.0	1.56	1.56	28.4	30.8	2300	2800	0.193	0.247	0.074	0.11	302	252	322
2C x 120	18	1.2	0.4	4 x 0.8	2.0	1.56	1.56	30.3	32.7	2850	3350	0.153	0.196	0.072	0.11	340	284	368
2C x 150	18	1.4	0.4	4 x 0.8	2.0	1.72	1.72	33.8	36.2	3450	4000	0.124	0.159	0.072	0.11	379	317	419
2C x 185	30	1.6	0.5	4 x 0.8	2.0	1.72	1.88	37.1	39.9	4200	4850	0.0991	0.127	0.072	0.11	425	357	482
2C x 240	34	1.7	0.5	4 x 0.8	2.5	1.88	2.04	40.2	43.9	5300	6300	0.0754	0.097	0.072	0.11	486	409	546
2C x 300	34	1.8	0.6	4 x 0.8	2.5	2.04	2.20	45.8	49.5	6450	7600	0.0601	0.077	0.071	0.12	541	456	644
2C x 400	53	2.0	0.6	4 x 0.8	2.5	2.36	2.36	50.0	53.9	8400	9650	0.0470	0.060	0.07	0.12	602	508	734

2 CORE, COPPER CONDUCTOR, XLPE INSULATED, UNARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of XLPE insulation (nom)	Min thickness of PVC Inner Sheath	Nom Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	CURRENT RATINGS		
											Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
Sq.mm	No's	mm	mm	mm	mm	Kg/Km	(Kg/Km)	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps	Amps
2C x 4	1	0.7	0.3	1.8	13.1	225	4.61	5.90	0.0927	0.065	54	45	48
2C x 4	7	0.7	0.3	1.8	13.8	225	4.61	5.90	0.0927	0.065	54	45	48
2C x 6	1	0.7	0.3	1.8	14.1	275	3.08	3.94	0.0884	0.071	67	56	61
2C x 6	7	0.7	0.3	1.8	14.8	275	3.08	3.94	0.0884	0.071	67	56	61
2C x 10	7	0.7	0.3	1.8	16.8	375	1.83	2.34	0.0837	0.081	89	75	83
2C x 16	6	0.7	0.3	1.8	16.8	425	1.15	1.47	0.0808	0.088	115	96	108
2C x 25	6	0.9	0.3	2.0	19.2	650	0.727	0.93	0.08	0.089	147	122	140
2C x 35	6	0.9	0.3	2.0	20.2	850	0.524	0.67	0.08	0.096	176	146	172
2C x 50	6	1.0	0.3	2.0	22.3	1150	0.387	0.495	0.078	0.098	208	173	208
2C x 70	12	1.1	0.3	2.0	24.8	1500	0.268	0.343	0.077	0.10	253	211	262
2C x 95	15	1.1	0.4	2.2	28.1	2000	0.193	0.247	0.074	0.11	302	252	322
2C x 120	18	1.2	0.4	2.2	30.0	2500	0.153	0.196	0.072	0.11	340	284	368
2C x 150	18	1.4	0.4	2.2	33.2	3100	0.124	0.159	0.072	0.11	379	317	419
2C x 185	30	1.6	0.5	2.4	36.9	3750	0.0991	0.127	0.072	0.11	425	357	482
2C x 240	34	1.7	0.5	2.6	40.0	4600	0.0754	0.097	0.072	0.11	486	409	546
2C x 300	34	1.8	0.6	2.8	45.7	5950	0.0601	0.077	0.071	0.12	541	456	644
2C x 400	53	2.0	0.6	3.0	50.2	7700	0.0470	0.060	0.07	0.12	602	508	734

3 CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, ARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of XLPE Insulation (nom)	Min thickness of PVC Inner Sheath	Nominal Dimension of Armour		Min Thickness of PVC Outer sheath		Approx Overall diameter of Cable with ± 2 mm tolerance		Approx weight of cable		Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Capacitance at 50 Hz	CURRENT RATINGS			
				Strip	Wire	Strip	Wire	Strip	Wire	Strip	Wire				Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C	
Sq.mm	No's	mm	mm	mm x mm	mm	mm	mm	mm	mm	(Kg/Km)	(Kg/Km)	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps	Amps	
3C x 4	3	0.7	0.3	---	1.4	---	1.24	---	16.3	---	450	7.41	9.48	0.0927	0.22	35	30	32
3C x 6	1	0.7	0.3	---	1.4	---	1.24	---	16.6	---	500	4.61	5.90	0.0884	0.25	46	38	42
3C x 6	3	0.7	0.3	---	1.4	---	1.24	---	17.3	---	500	4.61	5.90	0.0884	0.25	46	38	42
3C x 10	1	0.7	0.3	---	1.4	---	1.24	---	18.4	---	625	3.08	3.94	0.0837	0.31	57	48	54
3C x 10	7	0.7	0.3	---	1.4	---	1.24	---	19.5	---	625	3.08	3.94	0.0837	0.31	57	48	54
3C x 16	6	0.7	0.3	4 x 0.8	1.6	1.4	1.24	1.4	17.8	17.8	725	1.91	2.44	0.0808	0.36	74	61	69
3C x 25	6	0.9	0.3	4 x 0.8	1.6	1.4	1.4	1.4	20.1	20.1	900	1.20	1.54	0.08	0.41	95	79	93
3C x 35	6	0.9	0.3	4 x 0.8	1.6	1.4	1.4	1.4	22.2	23.8	850	0.868	1.11	0.08	0.47	114	94	114
3C x 50	6	1.0	0.3	4 x 0.8	1.6	1.4	1.56	24.6	26.5	1050	0.641	0.820	0.078	0.50	134	112	138	
3C x 70	12	1.1	0.4	4 x 0.8	2.0	1.56	1.56	28.9	31.3	1375	0.443	0.567	0.077	0.53	164	137	175	
3C x 95	15	1.1	0.4	4 x 0.8	2.0	1.56	1.56	31.1	33.5	1600	0.320	0.410	0.074	0.61	197	164	216	
3C x 120	15	1.2	0.4	4 x 0.8	2.0	1.56	1.72	35.7	38.4	1980	0.253	0.324	0.072	0.63	223	187	249	
3C x 150	15	1.4	0.5	4 x 0.8	2.0	1.72	1.88	39.2	42.0	2300	0.206	0.264	0.072	0.63	249	209	284	
3C x 185	30	1.6	0.5	4 x 0.8	2.5	1.88	2.04	43.3	47.0	2800	0.164	0.210	0.072	0.63	282	238	329	
3C x 240	30	1.7	0.6	4 x 0.8	2.5	2.04	2.20	46.3	50.0	3450	0.125	0.160	0.072	0.63	327	276	392	
3C x 300	30	1.8	0.6	4 x 0.8	2.5	2.20	2.36	51.6	53.3	4170	0.100	0.128	0.071	0.67	369	312	452	
3C x 400	53	2.0	0.7	4 x 0.8	3.15	2.52	2.68	58.4	63.3	5250	0.0778	0.100	0.07	0.67	420	356	526	

3 CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of XLPE Insulation (nom)	Min thickness of PVC Inner Sheath	Nom thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Capacitance at 50 Hz	CURRENT RATINGS		
										Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
Sq.mm	No's	mm	mm	mm	(mm)	Kg/Km	Ohm/Km	Ohms/Km	uF/Km	Amps	Amps	Amps
3C x 4	1	0.7	0.3	1.8	13.7	200	7.41	9.48	0.22	35	30	32
3C x 4	3	0.7	0.3	1.8	14.5	200	7.41	9.48	0.22	35	30	32
3C x 6	1	0.7	0.3	1.8	14.8	225	4.61	5.90	0.25	46	38	42
3C x 6	3	0.7	0.3	1.8	15.5	225	4.61	5.90	0.25	46	38	42
3C x 10	1	0.7	0.3	1.8	16.6	300	3.08	3.94	0.31	57	48	54
3C x 10	7	0.7	0.3	1.8	17.7	300	3.08	3.94	0.31	57	48	54
3C x 16	6	0.7	0.3	1.8	17.3	325	1.91	2.44	0.36	74	61	69
3C x 25	6	0.9	0.3	2.0	19.7	500	1.20	1.54	0.41	95	79	93
3C x 35	6	0.9	0.3	2.0	21.8	600	0.868	1.11	0.47	114	94	114
3C x 50	6	1.0	0.3	2.0	24.2	750	0.641	0.820	0.50	134	112	138
3C x 70	12	1.1	0.4	2.2	28.6	1025	0.443	0.567	0.53	164	137	175
3C x 95	15	1.1	0.4	2.2	30.8	1250	0.320	0.410	0.61	197	164	216
3C x 120	15	1.2	0.4	2.2	35.4	1550	0.253	0.324	0.63	223	187	249
3C x 150	15	1.4	0.5	2.4	39.0	1975	0.206	0.264	0.63	249	209	284
3C x 185	30	1.6	0.5	2.6	43.1	2350	0.164	0.210	0.63	282	238	329
3C x 240	30	1.7	0.6	2.8	46.2	2950	0.125	0.160	0.63	327	276	392
3C x 300	30	1.8	0.6	3.0	51.6	3600	0.100	0.128	0.67	369	312	452
3C x 400	53	2.0	0.7	3.2	58.2	4650	0.0778	0.100	0.67	420	356	526

3 CORE, COPPER CONDUCTOR, XLPE INSULATED, ARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Min No of wires	Thickness of XLPE insulation (nom)	Min thickness of PVC inner Sheath	Nominal Dimension of Armour		Min Thickness of PVC Outer sheath		Approx Overall diameter of Cable with ± 2 mm tolerance		Approx weight of cable		Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Capacitance at 30 Hz	CURRENT RATINGS			
					Strip	Wire	Strip	Wire	Strip	Wire	Strip	Wire				Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C	
Sq.mm	No's	mm	mm	mm	mm x mm	mm	mm	mm	mm	mm	mm	(Kg/Km)	(Kg/Km)	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps	Amps
3C x 4	1	0.7	0.3	1.4	---	1.24	---	1.24	---	15.5	---	500	500	4.61	5.90	0.0927	45	38	41
3C x 4	7	0.7	0.3	1.4	---	1.24	---	1.24	---	16.3	---	500	500	4.61	5.90	0.0927	45	38	41
3C x 6	1	0.7	0.3	1.4	---	1.24	---	1.24	---	16.6	---	625	625	3.08	3.94	0.0884	56	47	52
3C x 6	7	0.7	0.3	1.4	---	1.24	---	1.24	---	17.3	---	625	625	3.08	3.94	0.0884	56	47	52
3C x 10	7	0.7	0.3	1.4	---	1.24	---	1.24	---	19.5	---	800	800	1.83	2.34	0.0837	74	62	70
3C x 16	6	0.7	0.3	1.6	4 x 0.8	1.40	1.40	1.40	17.8	19.7	825	1000	1.15	1.47	0.0808	95	79	89	
3C x 25	6	0.9	0.3	1.6	4 x 0.8	1.40	1.40	1.40	20.1	21.7	1150	1350	0.727	0.931	0.080	122	102	119	
3C x 35	6	0.9	0.3	1.6	4 x 0.8	1.40	1.40	1.40	22.2	23.8	1450	1650	0.524	0.671	0.080	146	122	147	
3C x 50	6	1.0	0.3	1.6	4 x 0.8	1.40	1.40	1.40	24.6	26.5	1900	2200	0.387	0.495	0.078	173	144	179	
3C x 70	12	1.1	0.4	2.0	4 x 0.8	1.56	1.56	1.56	28.9	31.3	2550	3050	0.268	0.343	0.077	212	177	226	
3C x 95	15	1.1	0.4	2.0	4 x 0.8	1.56	1.56	1.56	31.1	33.5	3250	3800	0.193	0.247	0.074	254	212	279	
3C x 120	18	1.2	0.4	2.0	4 x 0.8	1.56	1.72	1.56	35.7	38.4	4000	4650	0.153	0.196	0.072	287	240	320	
3C x 150	18	1.4	0.5	2.0	4 x 0.8	1.72	1.88	1.72	39.2	42.0	4950	5650	0.124	0.159	0.072	321	269	365	
3C x 185	30	1.6	0.5	2.5	4 x 0.8	1.88	2.04	1.88	43.3	47.0	6000	7100	0.0991	0.127	0.072	362	304	422	
3C x 240	34	1.7	0.6	2.5	4 x 0.8	2.04	2.20	2.04	46.3	50.0	7600	8850	0.0754	0.097	0.072	418	352	500	
3C x 300	34	1.8	0.6	2.5	4 x 0.8	2.20	2.36	2.20	51.6	53.3	9350	10750	0.0601	0.077	0.071	469	396	574	
3C x 400	53	2.0	0.7	3.15	4 x 0.8	2.52	2.68	2.52	58.4	63.3	12200	14400	0.0470	0.060	0.070	528	447	662	

3 CORE, COPPER CONDUCTOR, XLPE INSULATED, UNARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of XLPE insulation (nom)	Min thickness of PVC Inner Sheath	Nom Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	CURRENT RATINGS		
											Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
Sq.mm	No's	mm	mm	mm	(mm)	Kg/Km	Ohm/Km	Ohms/Km	uF/Km	Amps	Amps	Amps	
3C x 4	1	0.7	0.3	1.8	13.7	275	4.61	5.90	0.0927	0.22	45	38	41
3C x 4	7	0.7	0.3	1.8	14.5	275	4.61	5.90	0.0927	0.22	45	38	41
3C x 6	1	0.7	0.3	1.8	14.8	350	3.08	3.94	0.0884	0.25	56	47	52
3C x 6	7	0.7	0.3	1.8	15.5	350	3.08	3.94	0.0884	0.25	56	47	52
3C x 10	7	0.7	0.3	1.8	17.7	475	1.83	2.34	0.0837	0.31	74	62	70
3C x 16	6	0.7	0.3	1.8	17.3	600	1.15	1.47	0.0808	0.36	95	79	89
3C x 25	6	0.9	0.3	2.0	19.7	900	0.727	0.93	0.080	0.41	122	102	119
3C x 35	6	0.9	0.3	2.0	21.8	1200	0.524	0.67	0.080	0.47	146	122	147
3C x 50	6	1.0	0.3	2.0	24.2	1600	0.387	0.495	0.078	0.50	173	144	179
3C x 70	12	1.1	0.4	2.2	28.6	2200	0.268	0.343	0.077	0.53	212	177	226
3C x 95	15	1.1	0.4	2.2	30.8	2900	0.193	0.247	0.074	0.61	254	212	279
3C x 120	18	1.2	0.4	2.2	35.4	3600	0.153	0.196	0.072	0.63	287	240	320
3C x 150	18	1.4	0.5	2.4	39.0	4500	0.124	0.159	0.072	0.63	321	269	365
3C x 185	30	1.6	0.5	2.6	43.1	5500	0.0991	0.127	0.072	0.63	362	304	422
3C x 240	34	1.7	0.6	2.8	46.2	7000	0.0754	0.097	0.072	0.63	418	352	500
3C x 300	34	1.8	0.6	3.0	51.6	8700	0.0601	0.077	0.071	0.67	469	396	574
3C x 400	53	2.0	0.7	3.2	58.2	11400	0.0470	0.060	0.070	0.67	528	447	662

3.5 CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, ARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires (Main/Neutral)	Thickness of XLPE insulation (nom) (Main/Neutral)	Min thickness of PVC inner Sheath	Nominal Dimension of Armour		Min Thickness of PVC Outer sheath		Approx Overall diameter of Cable with ± 2 mm tolerance		Approx weight of cable		Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	CURRENT RATINGS		
				Strip	Wire	Strip	Wire	Strip	Wire	Strip	Wire					Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
Sq.mm	No's	mm	mm	mm x mm	mm	mm	mm	mm	mm	(Kg/Km)	(Kg/Km)	Ohm/Km	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps	Amps
3.5C x 25/16	6/6	0.9/0.7	0.3	4 x 0.8	1.6	1.40	1.40	22.2	23.8	750	1000	1.20	1.54	0.080	0.41	95	79	93
3.5C x 35/16	6/6	0.9/0.7	0.3	4 x 0.8	1.6	1.40	1.40	23.9	25.5	875	1200	0.868	1.11	0.080	0.47	114	94	114
3.5C x 50/25	6/6	1.0/0.9	0.3	4 x 0.8	1.6	1.40	1.56	27.1	29.0	1110	1500	0.641	0.820	0.078	0.50	134	112	138
3.5C x 70/35	12/6	1.1/0.9	0.4	4 x 0.8	2.0	1.56	1.56	31.6	34.0	1475	2000	0.443	0.567	0.077	0.53	164	137	175
3.5C x 95/50	15/6	1.1/1.0	0.4	4 x 0.8	2.0	1.56	1.56	35.2	37.6	1825	2450	0.320	0.410	0.074	0.61	197	164	216
3.5C x 120/70	15/12	1.2/1.1	0.4	4 x 0.8	2.0	1.72	1.72	37.8	40.2	2200	2900	0.253	0.324	0.072	0.63	223	187	249
3.5C x 150/70	15/12	1.4/1.1	0.5	4 x 0.8	2.0	1.72	1.88	42.4	45.2	2625	3350	0.206	0.264	0.072	0.63	249	209	284
3.5C x 185/95	30/15	1.6/1.1	0.5	4 x 0.8	2.5	1.88	2.04	46.0	49.7	3175	4350	0.164	0.210	0.072	0.63	282	238	329
3.5C x 240/120	30/15	1.7/1.2	0.6	4 x 0.8	2.5	2.04	2.20	51.7	55.4	4000	5300	0.125	0.160	0.072	0.63	327	276	392
3.5C x 300/150	30/15	1.8/1.4	0.6	4 x 0.8	2.5	2.20	2.36	55.6	59.3	4750	6175	0.100	0.128	0.071	0.67	369	312	452
3.5C x 400/185	53/30	2.0/1.6	0.7	4 x 0.8	3.15	2.52	2.68	64.1	69.2	6000	8350	0.0778	0.100	0.070	0.67	420	356	526

3.5 CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires (Main/Neutral)	Thickness of XLPE insulation (nom) (Main/Neutral)	Min thickness of PVC inner Sheath	Nom Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	CURRENT RATINGS		
											Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
Sq.mm	No's	mm	mm	mm	(mm)	Kg/Km	Ohm/Km	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps	Amps
3.5C x 25/16	6/6	0.9/0.7	0.3	2.0	21.8	550	1.20	1.54	0.080	0.41	95	79	93
3.5C x 35/16	6/6	0.9/0.7	0.3	2.0	23.5	675	0.868	1.11	0.080	0.47	114	94	114
3.5C x 50/25	6/6	1.0/0.9	0.3	2.0	26.7	875	0.641	0.820	0.078	0.50	134	112	138
3.5C x 70/35	12/6	1.1/0.9	0.4	2.2	31.3	1150	0.443	0.567	0.077	0.53	164	137	175
3.5C x 95/50	15/6	1.1/1.0	0.4	2.2	34.9	1450	0.320	0.410	0.074	0.61	197	164	216
3.5C x 120/70	15/12	1.2/1.1	0.4	2.2	37.2	1800	0.253	0.324	0.072	0.63	223	187	249
3.5C x 150/70	15/12	1.4/1.1	0.5	2.4	42.2	2200	0.206	0.264	0.072	0.63	249	209	284
3.5C x 185/95	30/15	1.6/1.1	0.5	2.6	45.8	2700	0.164	0.210	0.072	0.63	282	238	329
3.5C x 240/120	30/15	1.7/1.2	0.6	2.8	51.6	3400	0.125	0.160	0.072	0.63	327	276	392
3.5C x 300/150	30/15	1.8/1.4	0.6	3.0	55.6	4150	0.100	0.128	0.071	0.67	369	312	452
3.5C x 400/185	53/30	2.0/1.6	0.7	3.4	64.3	5400	0.0778	0.100	0.070	0.67	420	356	526

3.5 CORE, COPPER CONDUCTOR, XLPE INSULATED, ARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires (Main/Neutral)	Thickness of XLPE Insulation (mm)	Min thickness of PVC Inner Sheath	Nominal Dimension of Armour		Min Thickness of PVC Outer sheath		Approx Overall diameter of Cable with ± 2 mm tolerance		Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	CURRENT RATINGS	
				Strip	Wire	Strip	Wire	Strip	Wire					Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C
Sq.mm	No's	mm	mm	mm x mm	mm	mm	mm	mm	mm	Ohm/Km	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps
3.5C x 25/16	6/6	0.9/0.7	0.3	4 x 0.8	1.6	1.40	1.40	22.2	23.8	0.727	0.931	0.080	0.41	122	102
3.5C x 35/16	6/6	0.9/0.7	0.3	4 x 0.8	1.6	1.40	1.40	23.9	25.5	0.524	0.671	0.080	0.47	146	122
3.5C x 50/25	6/6	1.0/0.9	0.3	4 x 0.8	1.6	1.40	1.56	27.1	29.0	0.387	0.495	0.078	0.50	173	144
3.5C x 70/35	12/6	1.1/0.9	0.4	4 x 0.8	2.0	1.56	1.56	31.6	34.0	0.268	0.343	0.077	0.53	212	177
3.5C x 95/50	15/6	1.1/1.0	0.4	4 x 0.8	2.0	1.56	1.56	35.2	37.6	0.193	0.247	0.074	0.61	254	212
3.5C x 120/70	18/12	1.2/1.1	0.4	4 x 0.8	2.0	1.72	1.72	37.8	40.2	0.153	0.196	0.072	0.63	287	240
3.5C x 150/70	18/12	1.4/1.1	0.5	4 x 0.8	2.0	1.72	1.88	42.4	45.2	0.124	0.159	0.072	0.63	321	269
3.5C x 185/95	30/15	1.6/1.1	0.5	4 x 0.8	2.5	1.88	2.04	46.0	49.7	0.0991	0.127	0.072	0.63	362	304
3.5C x 240/120	34/18	1.7/1.2	0.6	4 x 0.8	2.5	2.04	2.20	51.7	55.4	0.0754	0.097	0.072	0.63	418	352
3.5C x 300/150	34/18	1.8/1.4	0.6	4 x 0.8	2.5	2.20	2.36	55.6	59.3	0.0601	0.077	0.071	0.67	469	396
3.5C x 400/185	53/30	2.0/1.6	0.7	4 x 0.8	3.15	2.52	2.68	64.1	69.2	0.0470	0.060	0.070	0.67	528	447

3.5 CORE, COPPER CONDUCTOR, XLPE INSULATED, UNARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires (Main/Neutral)	Thickness of XLPE Insulation (mm)	Min thickness of PVC Inner Sheath	Nom Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	CURRENT RATINGS	
											Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C
Sq.mm	No's	mm	mm	mm	mm	Kg/Km	Ohm/Km	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps
3.5C x 25/16	6/6	0.9/0.7	0.3	2.0	21.8	1050	0.727	0.931	0.080	0.41	122	102
3.5C x 35/16	6/6	0.9/0.7	0.3	2.0	23.5	1350	0.524	0.671	0.080	0.47	146	122
3.5C x 50/25	6/6	1.0/0.9	0.3	2.0	26.7	1850	0.387	0.495	0.078	0.50	173	144
3.5C x 70/35	12/6	1.1/0.9	0.4	2.2	31.3	2550	0.268	0.343	0.077	0.53	212	177
3.5C x 95/50	15/6	1.1/1.0	0.4	2.2	34.9	3550	0.193	0.247	0.074	0.61	254	212
3.5C x 120/70	18/12	1.2/1.1	0.4	2.2	37.2	4250	0.153	0.196	0.072	0.63	287	240
3.5C x 150/70	18/12	1.4/1.1	0.5	2.4	42.2	5150	0.124	0.159	0.072	0.63	321	269
3.5C x 185/95	30/15	1.6/1.1	0.5	2.6	45.8	6400	0.0991	0.127	0.072	0.63	362	304
3.5C x 240/120	34/18	1.7/1.2	0.6	2.8	51.6	8150	0.0754	0.097	0.072	0.63	418	352
3.5C x 300/150	34/18	1.8/1.4	0.6	3.0	55.6	10100	0.0601	0.077	0.071	0.67	469	396
3.5C x 400/185	53/30	2.0/1.6	0.7	3.4	64.3	13250	0.0470	0.060	0.070	0.67	528	447

4 CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, ARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of XLPE Insulation (nom)	Min thickness of PVC Inner Sheath	Nominal Dimension of Armour		Min Thickness of PVC Outer sheath		Approx Overall diameter of Cable with ± 2 mm tolerance		Approx weight of cable		Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Capacitance at 30 Hz	CURRENT RATINGS			
				Strip	Wire	Strip	Wire	Strip	Wire	Strip	Wire				Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C	
Sq.mm	No's	mm	mm	mm x mm	mm	mm	mm	mm	mm	(Kg/Km)	(Kg/Km)	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps	Amps	
4C x 4	3	0.7	0.3	---	1.4	---	1.24	---	17.3	---	500	7.41	9.48	0.0927	0.22	35	30	32
4C x 6	1	0.7	0.3	---	1.4	---	1.24	---	17.7	---	550	4.61	5.90	0.0884	0.25	46	38	42
4C x 6	3	0.7	0.3	---	1.4	---	1.24	---	18.5	---	550	4.61	5.90	0.0884	0.25	46	38	42
4C x 10	1	0.7	0.3	---	1.4	---	1.40	---	20.1	---	725	3.08	3.94	0.0837	0.31	57	48	54
4C x 10	7	0.7	0.3	---	1.4	---	1.40	---	21.4	---	725	3.08	3.94	0.0837	0.31	57	48	54
4C x 16	6	0.7	0.3	4 x 0.8	1.6	1.4	1.40	21.2	22.8	675	850	1.91	2.44	0.0808	0.36	74	61	69
4C x 25	6	0.9	0.3	4 x 0.8	1.6	1.4	1.40	22.2	23.8	825	1050	1.20	1.54	0.080	0.41	95	79	93
4C x 35	6	0.9	0.3	4 x 0.8	1.6	1.4	1.40	24.4	26.0	1000	1300	0.868	1.11	0.080	0.47	114	94	114
4C x 50	6	1.0	0.3	4 x 0.8	1.6	1.56	1.56	27.9	29.5	1300	1550	0.641	0.820	0.078	0.50	134	112	138
4C x 70	12	1.1	0.4	4 x 0.8	2.0	1.56	1.56	31.7	34.1	1450	2200	0.443	0.567	0.077	0.53	164	137	175
4C x 95	15	1.1	0.4	4 x 0.8	2.0	1.56	1.72	35.2	37.9	2000	2650	0.320	0.410	0.074	0.61	197	164	216
4C x 120	15	1.2	0.5	4 x 0.8	2.0	1.72	1.88	39.1	41.9	2450	3200	0.253	0.324	0.072	0.63	223	187	249
4C x 150	15	1.4	0.5	4 x 0.8	2.5	1.88	2.04	42.6	46.3	2900	4100	0.206	0.264	0.072	0.63	249	209	284
4C x 185	30	1.6	0.5	4 x 0.8	2.5	2.04	2.20	47.8	51.5	3600	4800	0.164	0.210	0.072	0.63	282	238	329
4C x 240	30	1.7	0.6	4 x 0.8	2.5	2.20	2.36	53.8	57.5	4500	5900	0.125	0.160	0.072	0.63	327	276	392
4C x 300	30	1.8	0.7	4 x 0.8	3.15	2.36	2.52	59.5	64.5	5400	7600	0.100	0.128	0.071	0.67	369	312	452
4C x 400	53	2.0	0.7	4 x 0.8	3.15	2.68	2.84	67.1	72.1	6800	9200	0.0778	0.100	0.070	0.67	420	356	526

4 CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of XLPE Insulation (nom)	Min thickness of PVC Inner Sheath	Nom Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Capacitance at 50 Hz	CURRENT RATINGS	
										Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C
Sq.mm	No's	mm	mm	mm	(mm)	Kg/Km	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps
4C x 4	1	0.7	0.3	1.8	14.7	225	7.41	9.48	0.22	35	30
4C x 4	3	0.7	0.3	1.8	15.5	225	7.41	9.48	0.22	35	30
4C x 6	1	0.7	0.3	1.8	15.9	260	4.61	5.90	0.25	46	38
4C x 6	3	0.7	0.3	1.8	16.7	260	4.61	5.90	0.25	46	38
4C x 10	1	0.7	0.3	1.8	17.9	350	3.08	3.94	0.31	57	48
4C x 10	7	0.7	0.3	1.8	19.2	350	3.08	3.94	0.31	57	48
4C x 16	6	0.7	0.3	1.8	20.4	425	1.91	2.44	0.36	74	61
4C x 25	6	0.9	0.3	2.0	21.8	600	1.20	1.54	0.41	95	79
4C x 35	6	0.9	0.3	2.0	24.0	750	0.868	1.11	0.47	114	94
4C x 50	6	1.0	0.3	2.0	27.2	975	0.641	0.820	0.50	134	112
4C x 70	12	1.1	0.4	2.2	31.8	1300	0.443	0.567	0.53	164	137
4C x 95	15	1.1	0.4	2.2	34.9	1600	0.320	0.410	0.61	197	164
4C x 120	15	1.2	0.5	2.4	38.9	2050	0.253	0.324	0.63	223	187
4C x 150	15	1.4	0.5	2.6	42.4	2500	0.206	0.264	0.63	249	209
4C x 185	30	1.6	0.5	2.8	47.7	3050	0.164	0.210	0.63	282	238
4C x 240	30	1.7	0.6	3.0	53.8	3650	0.125	0.160	0.63	327	276
4C x 300	30	1.8	0.7	3.2	59.6	4800	0.100	0.128	0.67	369	312
4C x 400	53	2.0	0.7	3.6	67.3	6175	0.0778	0.100	0.67	420	356

4 CORE, COPPER CONDUCTOR, XLPE INSULATED, ARMOURED POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of XLPE Insulation (nom)	Min thickness of PVC Inner Sheath	Nominal Dimension of Armour		Min Thickness of PVC Outer sheath		Approx Overall diameter of Cable with ± 2 mm tolerance		Approx weight of cable		Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	CURRENT RATINGS		
				Strip	Wire	Strip	Wire	Strip	Wire	Strip	Wire					Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
Sq.mm	No's	mm	mm	mm x mm	mm	mm	mm	mm	mm	(Kg/Km)	(Kg/Km)	Ohm/Km	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps	
4C x 4	1	0.7	0.3	---	1.4	---	1.24	---	16.5	---	600	4.61	5.90	0.0927	0.22	45	38	41
4C x 4	7	0.7	0.3	---	1.4	---	1.24	---	17.3	---	600	4.61	5.90	0.0927	0.22	45	38	41
4C x 6	1	0.7	0.3	---	1.4	---	1.24	---	17.7	---	700	3.08	3.94	0.0884	0.25	56	47	52
4C x 6	7	0.7	0.3	---	1.4	---	1.24	---	18.5	---	700	3.08	3.94	0.0884	0.25	56	47	52
4C x 10	7	0.7	0.3	---	1.4	---	1.40	---	21.4	---	950	1.83	2.34	0.0837	0.31	74	62	70
4C x 16	6	0.7	0.3	4 x 0.8	1.6	1.40	1.40	21.2	22.8	1050	1200	1.15	1.47	0.0808	0.36	95	79	89
4C x 25	6	0.9	0.3	4 x 0.8	1.6	1.40	1.40	22.2	23.8	1450	1650	0.727	0.931	0.080	0.41	122	102	119
4C x 35	6	0.9	0.3	4 x 0.8	1.6	1.40	1.40	24.4	26.0	1850	2100	0.524	0.671	0.080	0.47	146	122	147
4C x 50	6	1.0	0.3	4 x 0.8	1.6	1.56	1.56	27.9	29.5	2475	2750	0.387	0.495	0.078	0.50	173	144	179
4C x 70	12	1.1	0.4	4 x 0.8	2.0	1.56	1.56	31.7	34.1	3300	3850	0.268	0.343	0.077	0.53	212	177	226
4C x 95	15	1.1	0.4	4 x 0.8	2.0	1.56	1.72	35.2	37.9	4200	4850	0.193	0.247	0.074	0.61	254	212	279
4C x 120	18	1.2	0.5	4 x 0.8	2.0	1.72	1.88	39.1	41.9	5250	6000	0.153	0.196	0.072	0.63	287	240	320
4C x 150	18	1.4	0.5	4 x 0.8	2.5	1.88	2.04	42.6	46.3	6450	7650	0.124	0.159	0.072	0.63	321	269	365
4C x 185	30	1.6	0.5	4 x 0.8	2.5	2.04	2.20	47.8	51.5	7850	9200	0.0991	0.127	0.072	0.63	362	304	422
4C x 240	34	1.7	0.6	4 x 0.8	2.5	2.20	2.36	53.8	57.5	10000	11400	0.0754	0.097	0.072	0.63	418	352	500
4C x 300	34	1.8	0.7	4 x 0.8	3.15	2.36	2.52	59.5	64.5	12350	14500	0.0601	0.077	0.071	0.67	469	396	574
4C x 400	53	1.9	0.7	4 x 0.8	3.15	2.68	2.84	67.1	72.1	16000	18500	0.0470	0.060	0.070	0.67	528	447	662

4 CORE, COPPER CONDUCTOR, XLPE INSULATED, UNARMOURED POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Min No of wires	Thickness of XLPE Insulation (nom)	Min thickness of PVC Inner Sheath	Nom Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Max D.C Resistance of Conductor at 20°C	Approx A.C Resistance of Conductor at 90°C	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	CURRENT RATINGS	
											Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C
Sq.mm	No's	mm	mm	mm	(mm)	Kg/Km	Ohm/Km	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps
4C x 4	1	0.7	0.3	1.8	14.8	300	4.61	5.90	0.0927	0.22	45	38
4C x 4	7	0.7	0.3	1.8	15.5	300	4.61	5.90	0.0927	0.22	45	38
4C x 6	1	0.7	0.3	1.8	16.0	400	3.08	3.94	0.0884	0.25	56	47
4C x 6	7	0.7	0.3	1.8	16.7	400	3.08	3.94	0.0884	0.25	56	47
4C x 10	7	0.7	0.3	1.8	19.6	575	1.83	2.34	0.0837	0.31	74	62
4C x 16	6	0.7	0.3	1.8	21.0	775	1.15	1.47	0.0808	0.36	95	79
4C x 25	6	0.9	0.3	2.0	22.4	1150	0.727	0.93	0.080	0.41	122	102
4C x 35	6	0.9	0.3	2.0	24.6	1550	0.524	0.67	0.080	0.47	146	122
4C x 50	6	1.0	0.3	2.0	27.8	2100	0.387	0.495	0.078	0.50	173	144
4C x 70	12	1.1	0.4	2.2	32.0	2900	0.268	0.343	0.077	0.53	212	177
4C x 95	15	1.1	0.4	2.2	35.5	3800	0.193	0.247	0.074	0.61	254	212
4C x 120	18	1.2	0.5	2.4	39.5	4775	0.153	0.196	0.072	0.63	287	240
4C x 150	18	1.4	0.5	2.6	43.0	5900	0.124	0.159	0.072	0.63	321	269
4C x 185	30	1.6	0.5	2.8	48.3	7250	0.0991	0.127	0.072	0.63	362	304
4C x 240	34	1.7	0.6	3.0	54.6	9300	0.0754	0.097	0.072	0.63	418	352
4C x 300	34	1.8	0.7	3.2	60.6	11600	0.0601	0.077	0.071	0.67	469	396
4C x 400	53	2.0	0.7	3.6	68.3	15250	0.0470	0.060	0.070	0.67	528	447

PVC INSULATED, ARMOURED CONTROL CABLES AS PER IS: 1554 (P-1)

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Thickness of PVC Insulation (nom)	Min thickness of PVC Inner Sheath	STRIP ARMOURED CABLE				WIRE ARMOURED CABLE				Standard Delivery/ Drum Length	Current Rating	
			Nominal size of strip	Min Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Nominal diameter of wire	Min Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable		Buried Direct in the Ground @ 30°C	In Air/Duct @ 40°C
Sq.mm	mm	mm	mm x mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km	meters	Amps	Amps
2C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	14.0	375	1000	25	20/22
3C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	14.5	400	1000	21	17/18
4C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	15.4	450	1000	21	17/18
5C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	16.3	500	1000	21	17/18
6C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	17.3	550	1000	15	13
7C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	17.3	575	1000	14	13
10C x 1.5	0.8	0.3	---	---	---	---	1.4	1.4	20.0	750	1000	13	11
12C x 1.5	0.8	0.3	4 x 0.8	1.24	19.4	675	1.6	1.4	21.4	900	1000	12	10
14C x 1.5	0.8	0.3	4 x 0.8	1.4	21.2	775	1.6	1.4	22.8	975	1000	11	10
16C x 1.5	0.8	0.3	4 x 0.8	1.4	22.1	850	1.6	1.4	23.7	1050	1000	11	9
19C x 1.5	0.8	0.3	4 x 0.8	1.4	23.1	925	1.6	1.4	24.7	1150	1000	10	9
24C x 1.5	0.8	0.3	4 x 0.8	1.4	26.4	1150	1.6	1.4	28.0	1375	1000	9	8
27C x 1.5	0.8	0.3	4 x 0.8	1.4	26.9	1200	1.6	1.4	28.5	1450	1000	9	8
30C x 1.5	0.8	0.3	4 x 0.8	1.4	27.8	1300	1.6	1.4	29.4	1550	1000	9	7
37C x 1.5	0.8	0.3	4 x 0.8	1.4	29.7	1500	1.6	1.4	31.3	1750	1000	8	7
2C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	15.2	425	1000	33	26/28
3C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	15.8	500	1000	28	23/24
4C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	16.8	550	1000	28	23/24
5C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	17.9	625	1000	28	23/24
6C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	19.1	700	1000	21	18
7C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	19.1	725	1000	20	17
10C x 2.5	0.9	0.3	4 x 0.8	1.4	21.0	850	1.6	1.4	22.6	975	1000	18	15
12C x 2.5	0.9	0.3	4 x 0.8	1.4	22.2	900	1.6	1.4	23.8	1100	1000	17	14
14C x 2.5	0.9	0.3	4 x 0.8	1.4	23.8	1000	1.6	1.4	25.4	1225	1000	16	13
16C x 2.5	0.9	0.3	4 x 0.8	1.4	24.9	1100	1.6	1.4	26.5	1325	1000	15	13
19C x 2.5	0.9	0.3	4 x 0.8	1.4	26.10	1250	1.6	1.4	27.7	1500	1000	14	12
24C x 2.5	0.9	0.3	4 x 0.8	1.4	30.0	1500	1.6	1.56	32.0	1800	1000	13	11
27C x 2.5	0.9	0.3	4 x 0.8	1.4	30.6	1625	1.6	1.56	32.6	1950	1000	12	10
30C x 2.5	0.9	0.3	4 x 0.8	1.56	32.0	1775	1.6	1.56	33.6	2050	1000	12	10
37C x 2.5	0.9	0.4	4 x 0.8	1.56	34.5	2050	2.0	1.56	36.9	2600	1000	11	9

Construction

1. Solid/Stranded annealed copper conductor & Tinned/Bare
2. General Purpose PVC-A/HR PVC-C Insulation
3. Cores laid up (filled if needed)
4. FR/FRLS/HR/General Purpose PVC ST-1 or 2 inner sheath
5. Armouring round Galvanized steel wires/strips
6. FR/FRLS/HR/General Purpose PVC ST-1 or 2 outer sheath

Max. Conductor D.C. Resistance at 20°C - Conductor Size :

- 1.5 sq.mm - 12.1 Ohm/Km (bare), 12.2 Ohm/Km (tinned)
- 2.5 sq.mm - 7.41 Ohm/Km (bare), 7.56 Ohm/Km (tinned)

* Dimensions specified are with stranded conductor

Approx Reactance at 50 Hz

- 1.5 sq.mm - 0.126 Ohm/Km, 2.5 sq.mm - 0.119 Ohm/Km

Approx Capacitance at 50 Hz

- 1.5 sq.mm - 0.14 uF/Km, 2.5 sq.mm - 0.15 uF/Km

PVC INSULATED, UNARMOURED CONTROL CABLES AS PER IS: 1554 (P-1)

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Thickness of PVC Insulation (nom)	Min thickness of PVC Inner Sheath	Nom. Thickness of PVC Outer Sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Standard Delivery/ Drum length	Current Rating	
							Buried Direct in the Ground @ 30°C	In Air/Duct @ 40°C
Sq.mm	mm	mm	mm	mm	Kg/Km	meters	Amps	Amps
2C x 1.5	0.8	0.3	1.8	12.2	150	1000	25	20/22
3C x 1.5	0.8	0.3	1.8	12.7	175	1000	21	17/18
4C x 1.5	0.8	0.3	1.8	13.6	200	1000	21	17/18
5C x 1.5	0.8	0.3	1.8	14.5	250	1000	21	17/18
6C x 1.5	0.8	0.3	1.8	15.5	275	1000	15	13
7C x 1.5	0.8	0.3	1.8	15.5	300	1000	14	13
10C x 1.5	0.8	0.3	1.8	17.8	400	1000	13	11
12C x 1.5	0.8	0.3	1.8	18.8	450	1000	12	10
14C x 1.5	0.8	0.3	1.8	20.2	500	1000	11	10
16C x 1.5	0.8	0.3	1.8	21.1	560	1000	11	9
19C x 1.5	0.8	0.3	2.0	22.5	660	1000	10	9
24C x 1.5	0.8	0.3	2.0	25.8	800	1000	9	8
27C x 1.5	0.8	0.3	2.0	26.3	875	1000	9	8
30C x 1.5	0.8	0.3	2.0	27.2	950	1000	9	7
37C x 1.5	0.8	0.3	2.0	29.1	1125	1000	8	7
2C x 2.5	0.9	0.3	1.8	13.4	200	1000	33	26/28
3C x 2.5	0.9	0.3	1.8	14.0	225	1000	28	23/24
4C x 2.5	0.9	0.3	1.8	15.0	275	1000	28	23/24
5C x 2.5	0.9	0.3	1.8	16.1	325	1000	28	23/24
6C x 2.5	0.9	0.3	1.8	17.3	375	1000	21	18
7C x 2.5	0.9	0.3	1.8	17.3	400	1000	20	17
10C x 2.5	0.9	0.3	1.8	20.0	550	1000	18	15
12C x 2.5	0.9	0.3	2.0	21.6	650	1000	17	14
14C x 2.5	0.9	0.3	2.0	23.2	725	1000	16	13
16C x 2.5	0.9	0.3	2.0	24.3	800	1000	15	13
19C x 2.5	0.9	0.3	2.0	25.5	900	1000	14	12
24C x 2.5	0.9	0.3	2.0	29.4	1125	1000	13	11
27C x 2.5	0.9	0.3	2.0	30.0	1225	1000	12	10
30C x 2.5	0.9	0.3	2.0	31.0	1350	1000	12	10
37C x 2.5	0.9	0.4	2.2	33.9	1600	1000	11	9

Construction

1. Solid/Stranded annealed copper conductor & Tinned/Bare
2. General Purpose PVC-A/HR PVC-C Insulation
3. Cores laid up (filled if needed)
4. FR/FRLS/HR/General Purpose PVC ST-1 or 2 inner sheath
5. FR/FRLS/HR/General Purpose PVC ST-1 or 2 outer sheath

Max. Conductor D.C Resistance at 20°C - Conductor Size :

- 1.5 sq.mm - 12.1 Ohm/Km (bare), 12.2 Ohm/Km (tinned)
- 2.5 sq.mm - 7.41 Ohm/Km (bare), 7.56 Ohm/Km (tinned)

* Dimensions specified are with stranded conductor.

Approx Reactance at 50 Hz

- 1.5 sq.mm - 0.126 Ohm/Km, 2.5 sq.mm - 0.119 Ohm/Km

Approx Capacitance at 50 Hz

- 1.5 sq.mm - 0.14 uF/Km, 2.5 sq.mm - 0.15 uF/Km

XLPE INSULATED, ARMoured CONTROL CABLES AS PER IS: 7098 (P-1)

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Thickness of PVC Insulation (nom)	Min thickness of PVC Inner Sheath	STRIP ARMoured CABLE				WIRE ARMoured CABLE				Standard Delivery/ Drum Length	Current Rating	
			Nominal size of strip	Min Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Nominal diameter of wire	Min Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable		Buried Direct in the Ground @ 30°C	In Air/Duct @ 40°C
Sq.mm	mm	mm	mm x mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km	meters	Amps	Amps
2C x 1.5	0.7	0.3	---	---	---	---	1.4	1.24	13.6	350	1000	31	27
3C x 1.5	0.7	0.3	---	---	---	---	1.4	1.24	14.1	375	1000	26	23/22
4C x 1.5	0.7	0.3	---	---	---	---	1.4	1.24	14.9	425	1000	26	23/22
5C x 1.5	0.7	0.3	---	---	---	---	1.4	1.24	15.8	475	1000	26	23/22
6C x 1.5	0.7	0.3	---	---	---	---	1.4	1.24	16.7	525	1000	22	19
7C x 1.5	0.7	0.3	---	---	---	---	1.4	1.24	16.7	550	1000	21	18
10C x 1.5	0.7	0.3	---	---	---	---	1.4	1.24	18.9	700	1000	18	16
12C x 1.5	0.7	0.3	---	---	---	---	1.4	1.24	19.8	750	1000	17	15
14C x 1.5	0.7	0.3	---	---	---	---	1.4	1.4	21.5	825	1000	16	14
16C x 1.5	0.7	0.3	4 x 0.8	1.4	21.2	750	1.6	1.4	22.8	950	1000	16	14
19C x 1.5	0.7	0.3	4 x 0.8	1.4	22.1	850	1.6	1.4	23.7	1025	1000	15	13
24C x 1.5	0.7	0.3	4 x 0.8	1.4	25.2	1000	1.6	1.4	26.8	1250	1000	13	12
27C x 1.5	0.7	0.3	4 x 0.8	1.4	25.7	1050	1.6	1.4	27.3	1300	1000	13	11
30C x 1.5	0.7	0.3	4 x 0.8	1.4	26.5	1150	1.6	1.4	28.1	1400	1000	12	11
37C x 1.5	0.7	0.3	4 x 0.8	1.4	28.3	1300	1.6	1.4	29.9	1550	1000	11	10
44C x 1.5	0.7	0.3	4 x 0.8	1.4	31.4	1500	1.6	1.56	33.4	1850	1000	11	9
52C x 1.5	0.7	0.3	4 x 0.8	1.56	33.1	1700	1.6	1.56	34.7	2000	1000	10	9
61C x 1.5	0.7	0.4	4 x 0.8	1.56	34.9	1950	2.0	1.56	37.3	2450	1000	9	8
2C x 2.5	0.7	0.3	---	---	---	---	1.4	1.24	14.4	400	1000	41	36/35
3C x 2.5	0.7	0.3	---	---	---	---	1.4	1.24	15.0	425	1000	34	30/29
4C x 2.5	0.7	0.3	---	---	---	---	1.4	1.24	15.9	500	1000	34	30/29
5C x 2.5	0.7	0.3	---	---	---	---	1.4	1.24	16.9	550	1000	34	30/29
6C x 2.5	0.7	0.3	---	---	---	---	1.4	1.24	17.9	600	1000	29	26
7C x 2.5	0.7	0.3	---	---	---	---	1.4	1.24	17.9	625	1000	27	25
10C x 2.5	0.7	0.3	4 x 0.8	1.24	19.6	725	1.6	1.4	21.2	925	1000	24	21
12C x 2.5	0.7	0.3	4 x 0.8	1.4	20.6	800	1.6	1.4	22.2	1000	1000	22	20
14C x 2.5	0.7	0.3	4 x 0.8	1.4	22.0	875	1.6	1.4	23.6	1050	1000	21	19
16C x 2.5	0.7	0.3	4 x 0.8	1.4	23.1	950	1.6	1.4	24.7	1150	1000	20	18
19C x 2.5	0.7	0.3	4 x 0.8	1.4	24.1	1050	1.6	1.4	25.7	1300	1000	19	17
24C x 2.5	0.7	0.3	4 x 0.8	1.4	27.6	1300	1.6	1.4	29.2	1550	1000	17	16
27C x 2.5	0.7	0.3	4 x 0.8	1.4	28.1	1375	1.6	1.4	29.7	1650	1000	16	16
30C x 2.5	0.7	0.3	4 x 0.8	1.4	29.0	1500	1.6	1.4	30.6	1750	1000	16	14
37C x 2.5	0.7	0.3	4 x 0.8	1.4	31.1	1700	1.6	1.56	33.1	2050	1000	15	13
44C x 2.5	0.7	0.4	4 x 0.8	1.56	35.4	2050	2.0	1.56	37.8	2600	1000	14	12
52C x 2.5	0.7	0.4	4 x 0.8	1.56	36.8	2300	2.0	1.56	39.2	2850	1000	13	12
61C x 2.5	0.7	0.4	4 x 0.8	1.56	38.9	2575	2.0	1.56	41.3	3200	1000	12	11

Construction

1. Solid/Stranded annealed copper conductor & Tinned/Bare
2. Cross Linked Polyethylene (XLPE) Insulation
3. Cores laid up (filled if needed)
4. FR/FRLS/HR PVC Type ST-2 inner sheath outer sheath
5. Armouring round Galvanized steel wires/strips
6. FR/FRLS/HR PVC Type ST-2

Max. Conductor D.C Resistance at 20°C - Conductor Size :

1.5 sq.mm - 12.1 Ohm/Km (bare), 12.2 Ohm/Km (tinned) 2.5 sq.mm - 7.41 Ohm/Km (bare), 7.56 Ohm/Km (tinned) * Dimensions specified are with stranded conductor

Approx Reactance at 50 Hz 1.5 sq.mm - 0.107 Ohm/Km, 2.5 sq.mm - 0.0985 Ohm/Km

Approx Capacitance at 50 Hz 1.5 sq.mm - 0.15 uF/Km, 2.5 sq.mm - 0.18 uF/Km

XLPE INSULATED, UNARMoured CONTROL CABLES AS PER IS: 7098 (P-1)

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Thickness of PVC Insulation (nom)	Min thickness of PVC Inner Sheath	Nom. Thickness of PVC Outer Sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Standard Delivery/ Drum length	Current Rating	
							Buried Direct in the Ground @ 30°C	In Air/Duct @ 40°C
Sq.mm	mm	mm	mm	mm	Kg/Km	meters	Amps	Amps
2C x 1.5	0.7	0.3	1.8	11.8	140	1000	31	27
3C x 1.5	0.7	0.3	1.8	12.3	160	1000	26	23/22
4C x 1.5	0.7	0.3	1.8	13.1	200	1000	26	23/22
5C x 1.5	0.7	0.3	1.8	14.0	225	1000	26	23/22
6C x 1.5	0.7	0.3	1.8	14.9	250	1000	22	19
7C x 1.5	0.7	0.3	1.8	14.9	260	1000	21	18
10C x 1.5	0.7	0.3	1.8	17.1	340	1000	18	16
12C x 1.5	0.7	0.3	1.8	18.0	400	1000	17	15
14C x 1.5	0.7	0.3	1.8	19.3	430	1000	16	14
16C x 1.5	0.7	0.3	1.8	20.2	475	1000	16	14
19C x 1.5	0.7	0.3	1.8	21.1	540	1000	15	13
24C x 1.5	0.7	0.3	2.0	24.6	665	1000	13	12
27C x 1.5	0.7	0.3	2.0	25.1	750	1000	13	11
30C x 1.5	0.7	0.3	2.0	25.9	820	1000	12	11
37C x 1.5	0.7	0.3	2.0	27.7	975	1000	11	10
44C x 1.5	0.7	0.3	2.0	30.8	1100	1000	11	9
52C x 1.5	0.7	0.3	2.0	32.1	1275	1000	10	9
61C x 1.5	0.7	0.4	2.2	34.5	1500	1000	9	8
2C x 2.5	0.7	0.3	1.8	12.6	175	1000	41	36/35
3C x 2.5	0.7	0.3	1.8	13.2	200	1000	34	30/29
4C x 2.5	0.7	0.3	1.8	14.1	250	1000	34	30/29
5C x 2.5	0.7	0.3	1.8	15.1	275	1000	34	30/29
6C x 2.5	0.7	0.3	1.8	16.1	325	1000	29	26
7C x 2.5	0.7	0.3	1.8	16.1	350	1000	27	25
10C x 2.5	0.7	0.3	1.8	18.6	475	1000	24	21
12C x 2.5	0.7	0.3	1.8	19.6	525	1000	22	20
14C x 2.5	0.7	0.3	1.8	21.0	600	1000	21	19
16C x 2.5	0.7	0.3	2.0	22.5	675	1000	20	18
19C x 2.5	0.7	0.3	2.0	23.5	775	1000	19	17
24C x 2.5	0.7	0.3	2.0	27.0	950	1000	17	16
27C x 2.5	0.7	0.3	2.0	27.5	1025	1000	16	16
30C x 2.5	0.7	0.3	2.0	28.4	1125	1000	16	14
37C x 2.5	0.7	0.3	2.0	30.5	1300	1000	15	13
44C x 2.5	0.7	0.4	2.2	34.8	1600	1000	14	12
52C x 2.5	0.7	0.4	2.2	36.2	1825	1000	13	12
61C x 2.5	0.7	0.4	2.2	38.3	2050	1000	12	11

Construction

1. Solid/Stranded annealed copper conductor & Tinned/Bare
2. Cross Linked Polyethylene (XLPE) Insulation
3. Cores laid up (filled if needed)
4. FR/FRLS/HR PVC Type ST-2 inner sheath
5. FR/FRLS/HR PVC Type ST-2 outer sheath

Max. Conductor D.C Resistance at 20°C - Conductor Size :

1.5 sq.mm - 12.1 Ohm/Km (bare), 12.2 Ohm/Km (tinned) 2.5 sq.mm - 7.41 Ohm/Km (bare), 7.56 Ohm/Km (tinned) * Dimensions specified are with stranded conductor

Approx Reactance at 50 Hz

1.5 sq.mm - 0.107 Ohm/Km, 2.5 sq.mm - 0.0985 Ohm/Km

Approx Capacitance at 50 Hz

1.5 sq.mm - 0.15 uF/Km, 2.5 sq.mm - 0.18 uF/Km

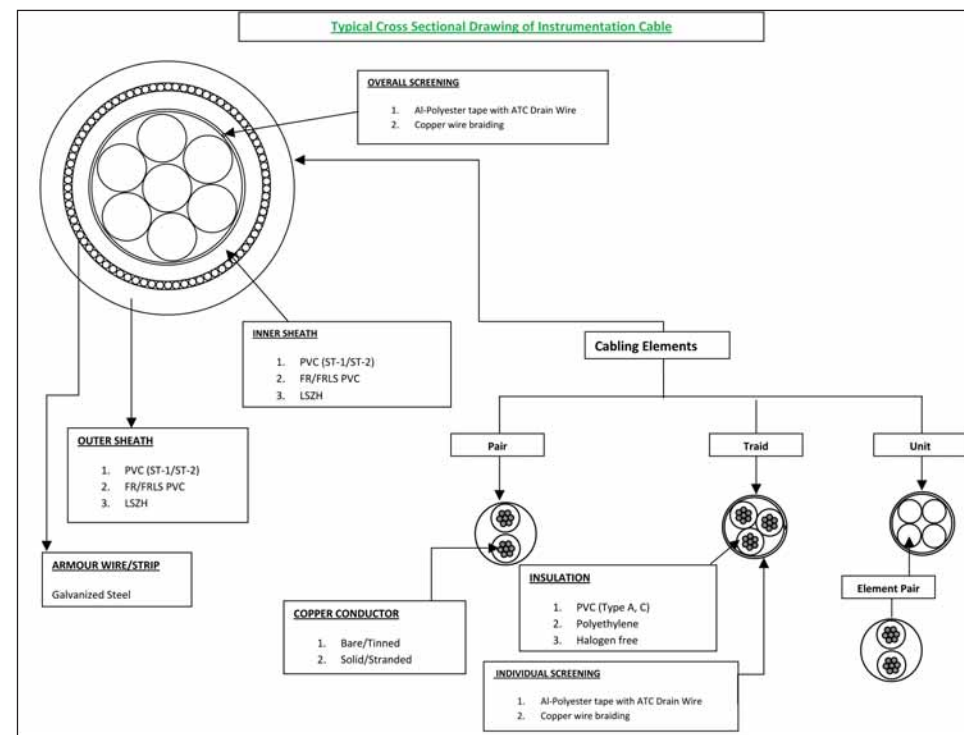
Instrumentation Cables

KEI Industries Limited manufactures a wide variety of cables suitable for process instrumentation. In the projects related to power generation & distribution, chemical & fertilizer industries and various other types of engineering industries, the process instrumentation plays a vital role in measurement, supervision and control of the process. Introduction of microprocessor based/computerised instrumentation has demanded stringent quality requirements alongwith special electrical parameters for instrumentation cables. Very low level electrical signals pass between measuring end and display units/controllers which are situated far off. These low level signals are prone to external noise pickups and heavy silenuation during transmission.

All this means that the cables to be used for instrumentation should be designed and manufactured very carefully. KEI, with its meticulous efforts in maintaining quality, stringent in process control during manufacture and the knowledge of cable designing, is proud to say that it is capable of supplying instrumentation cables meeting any Indian/ International standard or a specific requirement desired by project authority. The efforts done by KEI are regarded by acceptance of our quality by the country's prime organisations such as NTPC, PDIL, EIL, BHEL, TATA's, IOCL, L&T, ABB, KRUPP Ind, BPCL, HPCL, ESSAR, SIEMENS, Electricity Boards, Reliance, IOTL, Mukand, Honeywell, etc.

Range of Instrumentation Cables :-

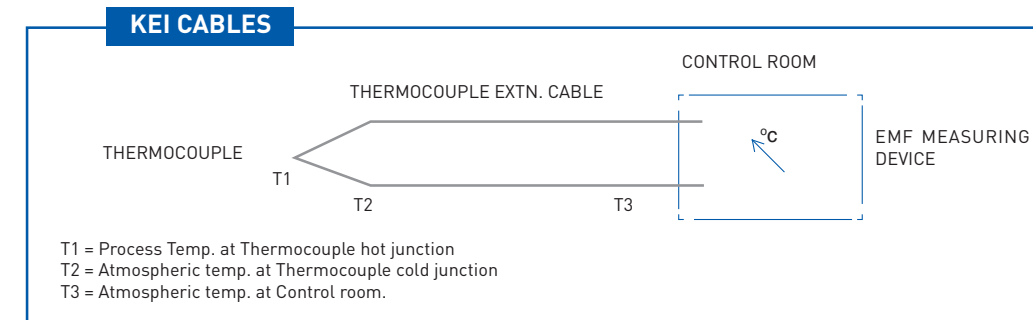
- Conductor** : 0.4 mm dia (0.126 sq.mm) to 2.5 sq.mm. or higher sizes of electrolytic copper wire, Tinned/untinned, solid/ stranded copper conductors.
- Insulation** : 70° C/85° C. Grade PVC, Polyethylene, Halogen Free FRLS Polymeric Compounds.
- Elements** : Pairs/Triples/Quads, colour coded/number printed ring marked/dual colour extruded.
- Shields** : Aluminium Polyester tape screen with Copper drain wire or alternately with with Copper wire braiding. Individual element or overall shielding as specified.
- Element laying** : Concentric formation or unit & group formation as per applicable specification.
- Amounting** : Galvanised steel wire/strip amount.
- Sheathing** : PVC 70° C/90° C grade, PVC FRLS, ZHFR, CSP, PCP, EVA, etc.
- Specification** : BS:5308 (1 & 2), iec-189 (1 & 2), VDE 0815, ENI 0181.00 and customers specifications.



Thermocouple Extension/Compensating Cables

These cables can also be termed as instrumentation cables, since they are used for process temperature measurement. The construction is similar to paired instrumentation cable but the conductor material is different. Thermocouples are used in processes to sense temperature and is connected to the pyrometers for indication and control. The thermocouple

and pyrometers are electrically conducted by thermocouple extension/compensating cables. The conductors used for these cables are required to have similar thermo-electric (emf) properties as that of the thermocouple used for sensing the temperature. The cables are manufactured as per IS:8784, ANSI-MC 96. 1, B.S., ENI, DIN and customers specification.



Range of Thermocouple Extension/Compensation cables :-

Extension Cables	Conductor Material	
	Positive	Negative
KX (NiCr/Nia)	Chromel	Alumel
JX (Fe/CuNi)	Iron	Constantan
EX (NiCr/CuNi)	Chromel	Constantan
TX (Cu/CuNi)	Copper	Constantan
Compensating Cables		
KX (A)/VX (NiCr/NiAl)	Copper	Constantan
SX/RX (PtRh-Pt)	Copper	Constantan

COLOUR CODES as per various standard specifications

	STANDARDS REFERRED											
	ANSI MC-96.1			ENI - 163.00			IS : 8784			B. S.		
	+ve	-ve	overall	+ve	-ve	overall	+ve	-ve	overall	+ve	-ve	overall
EXTENSION CABLES												
KX	Yellow	Red	Yellow	Red	Green	Green	Brown	Blue	Red			
JX	White	Red	Black	Red	Blue	Blue	Yellow	Blue	Black			
TX	Blue	Red	Blue	Red	Black	Black	White	Blue	Blue			
EX	Purple	Red	Purple	Red	Violet	Violet	Brown	Blue	Brown			
COMPENSATING CABLES												
KX(A)/VX	—	—	—	Red	Green	Green	White	Blue	Red			
SX/RX	Black	Red	Green	Red	White	White	White	Blue	Green			

KEI FRLS And Halogen Free Cables

Test	Function	Specification	Typical Values of FRLS Compound	Typical Values of Halogen Free Compound	Typical Values of Ordinary PVC Compound
Critical Oxygen Index	To Determine Percentage of Oxygen Required for Supporting Combustion of Insulating Material at room temprature.	ASTM-D-2863	More than 29	More than 29	23
Temprature Index	To Determine at What Temprature Normal Oxygen Content of 21% in Air will Support Combustion of Insulating Material	ASTM-D-2863 & BICC Handbook Chapter No.6	More than 250 Deg.C	More than 250 Deg.C	150 Deg.C
SMOKE DENSITY RATING	To Determine the visibility (Light Transmission) under Fire of Insulating Material	ASTM-D-2843	More than 40%	More than 80%	10-15%
	Smoke Density Rating	ASTM-D-2843	Mox 60%	Max 20%	85-90%
Acid Gas	To acertian the amount of Hydrocloric Acid Gas	IEC-754-I	Less than 20%	Less than 0.5%	45-50%
Generation	Evolved from Insulation of Cable Under Fire.				

Following additional test is offered on these cables:

- 1) FLAMMABILITY TEST
 - A) IEEE 383
 - B) IEC 332(PART-I)
 - C) IEC 332 (PART-III)
- 2) SWEDISH CHIMNEY TEST
 - A) SS 4241475 (F3)

Single Core PVC/ HR PVC / FRLS / ZHFR Insulated Copper Conductor (Unsheathed) House Wires in Voltage Grade upto & including 1100 Volts as per IS 694.

Basic Code	Nominal Cross Section Area of Conductor	Number / Nom. Dia of wires* (Nom.)	Thickness of Insulation (Nom.)	Overall diameter Max.	Current Carrying Capacity in [Amps]				Resistance (Max) at 20°C.
					PVC	HR PVC	FRLS	ZHFR	
	Sq. Mm	Number / mm	mm	mm					Ohm / Km
KSF - 2420	0.75	24 / 0.20	0.60	2.8	7	8	7	8	26.00
KSF - 1430	1.00	14 / 0.30	0.70	3.2	11	13	11	13	18.10
KSF - 2230	1.50	22 / 0.30	0.70	3.4	13	16	13	16	12.10
KSF - 3630	2.50	36 / 0.30	0.80	4.2	18	20	18	20	7.41
KSF - 5630	4.00	56 / 0.30	0.80	4.8	24	26	24	26	4.95
KSF - 8430	6.00	84 / 0.30	0.80	5.6	31	36	31	36	3.30

Comparitive Properties of House Wires

Feature	Normal PVC Wire	Heat Resistant HR PVC	Fire Retardant FR - PVC	Flame Retardant Low Smoke FRLS	Zero Halogen Low Smoke
Insulation Material	PVC	PVC	Spl. PVC	Spl. PVC	Spl. Polymer
Insulation Property	Normal	Good	Good	Good	Very Good
Temperature Rating	70°C	85°C	70°C	70°C	85°C
Thermal Stability	Normal	Very Good	Good	Good	Very Good
Flame Retardancy	Good	Good	Very Good	Very Good	Excellent
Safety During Burning	Average	Average	Good	Good	Excellent
Requirement of Oxygen to Catch Fire (% in air)	→21	→ 21	→ 30	→ 30	→ 35
Temperature Required to Catch Fire (with 21% oxygen)	Room Temp.	Room Temp.	→ 250°C	→ 250°C.	→ 300°C
Visibility during Cable Burning (%)	←20	← 20	← 35	→ 40	→ 80
Release of Halogen Gas during Burning (% by weight)	←20	← 20	← 20	← 20	ZERO
Abrasion Resistance during Installation	Good	Good	Good	Good	Good

Winding Wires / 3 Core Flat Cables For Submersible Pumps

HR PVC Insulated Winding Wires as per IS:8783 (Part 4/Sec I)

Basic Code	Conductor Diameter (Nom) mm	Thickness of Insulation (Min) mm	Overall Diameter (Approx.) mm	Conductor Resistance at 200°C (Max) Ohms/Km
KWS-0060	0.6	0.25	1.17	62.20
KWS-0070	0.7	0.30	1.37	45.70
KWS-0080	0.8	0.30	1.47	35.00
KWS-0090	0.9	0.30	1.57	27.60
KWS-0100	1.0	0.30	1.67	22.40
KWS-0110	1.1	0.30	1.77	18.50
KWS-0120	1.2	0.30	1.87	15.50
KWS-0130	1.3	0.30	1.97	13.20
KWS-0140	1.4	0.35	2.17	11.40
KWS-0150	1.5	0.35	2.27	9.95
KWS-0160	1.6	0.35	2.37	8.75
KWS-0170	1.7	0.35	2.47	7.75
KWS-0180	1.8	0.35	2.62	6.91
KWS-0190	1.9	0.35	2.72	6.20
KWS-0200	2.0	0.45	3.02	5.60
KWS-0210	2.1	0.45	3.12	5.08
KWS-0220	2.2	0.45	3.22	4.63
KWS-0230	2.3	0.45	3.32	4.23
KWS-0240	2.4	0.50	3.52	3.89
KWS-0250	2.5	0.50	3.62	3.58
KWS-0260	2.6	0.50	3.72	3.31
KWS-0270	2.7	0.50	3.82	3.07
KWS-0280	2.8	0.55	4.02	2.86
KWS-0290	2.9	0.55	4.12	2.66
KWS-0300	3.0	0.55	4.22	2.49

3 Core Flat Cables

Basic Code	Area (Nom.) sq. mm	Number/size of Wire No./mm	Insulation Thickness (Nom.) mm	Sheath Thickness (Nom.) mm	Width 'W' (Approx) mm	Thickness 'T' (Approx) mm	Resistance at 20°C (Max.) ohm/Km	Current carrying capacity at 40°C Amps
K3FL-2230	1.5	22/0.3	0.6	0.90	11.0	5.0	12.10	14
K3FL-3630	2.5	36/0.3	0.7	1.00	13.0	6.0	7.40	18
K3FL-5630	4.0	56/0.3	0.8	1.00	15.3	6.7	4.95	26
K3FL-8430	6.0	84/0.3	1.0	1.15	18.7	7.9	3.30	31
K3FL-14030	10.0	140/0.3	1.0	1.40	23.7	9.9	1.91	42
K3FL-22630	16.0	226/0.3	1.0	1.40	28.0	11.4	1.21	57
K3FL-35430	25.0	354/0.3	1.2	2.00	35.5	14.7	0.780	72
K3FL-49530	35.0	495/0.3	1.2	2.00	39.5	16.2	0.554	90
K3FL-70330	50.0	703/0.3	1.4	2.20	45.5	18.3	0.386	115
K3FL-36050	70.0	360/0.5	1.4	2.20	51.0	20.0	0.272	143
K3FL-47550	95.0	475/0.5	1.6	2.40	60.0	23.5	0.206	165

Rubber Cables

In keeping with the company's commitment to technological advancement, elastomer materials such as Polychloroprene (PCP), Chloro-Sulphonated Polyethylene (CSP), Nitrile Rubber / PVC blends, Ethylene Propylene Rubber (EPR), Ethylene Vinyl Acetate (EVA) and Silicone have been specially compounded to meet numerous heat oil and fire resisting requirements. In the recent years KEI has also developed special Elastomeric Fire Survival Cables for power, control and instrumentation wiring.

Elastomeric compounds for insulating and sheathing of cables are formulated to meet the requirement of IS 6380, BS 6899, IEC 60502 and other international specification.

GENERAL CONSTRUCTION (Conforming to IS 9968 Part 1 & II)

- Conductor – Annealed tinned Copper wires Solid (Class 1), Stranded (Class 2), flexible (Class 5) complying with the requirement of IS 8130
- Separator Tape – Suitable material separator tape may be applied over the conductor
- Insulation – General service elastomer compound Type IE1 of IS 6380
Heat Resisting elastomer compound Type IE2 of IS 6380
Silicone Rubber Type IE 5 of IS 6380
- Core Identification – Coloured insulation, Nos. PE tape, Coloured proofed tape, Nos. printing
- Fillers – Natural or synthetic fibres or elastomer suitable for the operating temperature and compatible with the insulating material
- Sheath – General service sheath Type SE1/SE2 of IS 6380
Heavy Duty Sheath Type SE3/SE4 of IS 6380

Working Temperature of Commonly used Elastomeric Insulating and Sheathing Materials

Material	Max. Cond. Temp. for continuous operation °C.	Max. Cond. Temp. for short circuit °C.	Min. Working Temp. °C.
Ethylene Propylene Rubber (EPR)	90	250	-50
Polychloroprene (PCP)	70	200	-40
Chlorosulphonated Polyethylene (CSP)	90	200	-35
Silicone Rubber	150/180	350	55
Chloropropylene Ethylene (CPE)	90	250	-30
Styrene Butadiene Rubber	60	200	-55
NBR PVC	90	250	-30

Rubber Cables

Current carrying capacities for Multicore Flexible Trailing cables Armoured / Unarmoured, insulated with EPR for all Voltage Grades

Nominal Cross-sectional Area Of conductor	Max. Resistance at 20°C for tinned flexible conductor(class 5)	Current Rating upto 10 kV E2(EPR)	Current Rating Above 10 kV EPR
mm ²	ohms/km	[A]	[A]
2.5	8.21	32	-
4	5.09	43	-
6	3.39	56	-
10	1.95	78	-
16	1.24	104	110
25	0.795	138	146
35	0.595	171	181
50	0.393	213	226
70	0.277	263	279
95	0.21	317	336
120	0.164	370	391
150	0.132	425	450
185	0.108	485	514

Note:

- 1) This table covers current rating of flexible trailing cable armoured / unarmoured conforming to IS:9968 I & II, IS 14494, VDE 0250, NCB & other equivalent international specifications for flexible cables.
- 2) The rating is given above are based on ambient temp.30°C for higher temp. please refer to the following table of correction factors.

Temp.°C	EPR
25	1.05
30	1.00
35	0.93
40	0.86
45	0.80
50	0.72
55	0.63
60	0.54
70	0.31

- 3) Rating factor for 'MONOSPIRAL' reeling drum winding duty is 0.85 .
- 4) For reeling-unreeling operation rating factors are as follows :

No. of Times	1	2	3	4
Derating Factors	0.76	0.58	0.47	0.40

*Current rating for higher sizes upon request.

Rubber Cables

Elastomenc Cables Range	Application
Cables up to 11 kV	Machine Trailing, Mining, Power
Flexible Trailing Cables	Reeling unreeling, Trailing, Festooning, Mobile Machines Cranes, Coal Handling and Conveyors
Mining Cables	FT or Pliable Armoured or Landline type as per IS 14494, NCB, SABS specs tor UG, Open cast Coal or other mines and mining machines
Thermal Power Plants	For coal handling plants, flexible power and control application
Cables for Steel Plants	Flexible and high temp withstanding cables tor tumace. melting shops, material handling
Wind Energy	Flexible cables lor power and control lor Wind Mill generator connection
Fire Survival Cables	Fire Survival lor 3 Hrs or 20 Min
Ship Wiring	As per IEC specs and Naval specs DGS of DEFSTAN, NES
Offshore and Onshore	For platforms and Ring as per IEC, BS and NEK Specs
Shore Supply & Generator Cables	For charging of ship batteries and supply from mobile generators
Motor Coil Leads	Elastomeric and Silicon as per IS, BS, or OEM Specs
High Temp Cables	Silicon insulated, glass fiber braided or unbraided
Pump Cables	For water, submersible and sewerage pumps
Cables for Railway	Coach wiring, Metro railway
Wire	HFFR Low toxic emission under fire
Panel Wiring	For flexible, high power high temp zone, polluted or moist atmospheres
Battery Cables	For High current and long life
Low Temperature installations	Suitable tor subzero temp installations and operations
Misc Applications	outdoor high mast lighting site power supply, while goods, oil or chemical resistant
Type	Power and Control cables up to 61 Crores Instrumentation Pairs 30 pairs, triads, quad Wires, flat cables
Voltage Grades	11 kV, 6.6 kV, 3.3 kV, 1.1 kV, 750 V, 250 V, 110 V, 60 V
Conductor Range	0.5 to 630 sq. mm
Polymers Processed Compounds	EPR, EPDM, PCP, CSP, CPE, SILICONE, EVA HALOGEN FREE AND FIRE RESISTANT NONTXIC COMPOUNDS
Braiding Offered	ATC, GI wire braid, Synthetics or Textile Yarn, Glass Fiber
Armouring	Pliable armour or Steel / Copper Wires / Stainless steel

Conductor Data

Conductor Technical data for Single Core and Multicore cables conforming to IS: 8130 (Stranded-Class-2) Aluminium Conductor or Annealed Copper conductor, compacted circular or shaped

Nominal Size of Conductor	Minimum no of wires				Max DC Resistance at 20°C		Approx. AC Resistance at 70°C		Approx. AC Resistance at 85°C		Approx. AC Resistance at 90°C	
	Non-compact		Compacted		Plain Copper	Aluminium	Plain Copper	Aluminium	Plain Copper	Aluminium	Plain Copper	Aluminium
	COPPER	ALUMINIUM	COPPER	ALUMINIUM	Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km
No's	No's	No's	No's	No's	Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km
1.0	3	-	-	-	18.1	-	21.7	-	22.8	-	23.2	-
1.5	3	3	-	-	12.1	18.1	14.5	21.7	15.2	22.8	15.5	23.2
2.5	3	3	3	-	7.41	12.1	8.89	14.5	9.34	15.2	9.48	15.5
4	7	3	3	-	4.61	7.41	5.53	8.89	5.81	9.3	5.90	9.48
6	7	3	3	-	3.08	4.61	3.70	5.53	3.88	5.8	3.94	5.90
10	7	7	6	-	1.83	3.08	2.20	3.70	2.31	3.9	2.34	3.94
16	7	7	6	6	1.15	1.91	1.38	2.29	1.45	2.41	1.47	2.44
25	7	7	6	6	0.727	1.20	0.872	1.44	0.916	1.51	0.931	1.54
35	7	7	6	6	0.524	0.868	0.629	1.04	0.660	1.09	0.671	1.11
50	19	19	6	6	0.387	0.641	0.464	0.769	0.488	0.808	0.495	0.820
70	19	19	12	12	0.288	0.443	0.322	0.532	0.338	0.558	0.343	0.567
95	19	19	15	15	0.193	0.320	0.232	0.384	0.243	0.403	0.247	0.410
120	37	37	18	15	0.153	0.253	0.184	0.304	0.193	0.319	0.196	0.324
150	37	37	18	15	0.124	0.206	0.149	0.247	0.156	0.240	0.159	0.244
185	37	37	30	30	0.0991	0.164	0.119	0.197	0.125	0.207	0.127	0.210
240	61	37	34	30	0.0754	0.125	0.090	0.150	0.095	0.158	0.097	0.160
300	61	61	34	30	0.0601	0.100	0.072	0.120	0.076	0.126	0.077	0.128
400	61	61	53	53	0.0470	0.0778	0.056	0.093	0.059	0.098	0.060	0.100
500	61	61	53	53	0.0366	0.0605	0.044	0.073	0.046	0.076	0.047	0.077
630	91	91	53	53	0.0283	0.0469	0.034	0.056	0.036	0.059	0.036	0.060
800	91	91	53	53	0.0221	0.0367	0.027	0.044	0.028	0.046	0.028	0.047
1000	91	91	53	53	0.0176	0.0291	0.021	0.035	0.022	0.037	0.023	0.037
1200	-	-	-	-	0.0151	0.0247	-	-	-	-	0.019	0.032
1400	-	-	-	-	0.0129	0.0212	-	-	-	-	0.017	0.027
1600	-	-	-	-	0.0113	0.0186	-	-	-	-	0.014	0.024

* Shape of Conductor shall be Circular (from 1.0 sq mm upto 10 sq. mm)
 * Shape of Conductor shall be Circular/Sector (from 16 sq. mm upto 1000 sq. mm)
 * Shape of Conductor may be Circular/Miliken (from 1000 sq. mm and above)

SHORT CIRCUIT CURRENT RATINGS FOR XLPE/PVC CABLES

Short Circuit Rating for 1 second duration for XLPE & PVC Insulated Cables with Copper and Aluminium Conductor (Isc Current in kAmps)

Nominal Size of Conductor	XLPE Insulated (90°C)		PVC-A Insulated (70°C)		PVC-C Insulated (85°C)	
	COPPER	ALUMINIUM	COPPER	ALUMINIUM	COPPER	ALUMINIUM
Sq.mm						
1.0	0.143	-	0.115	-	0.104	-
1.5	0.215	-	0.173	-	0.156	-
2.5	0.358	-	0.288	-	0.260	-
4	0.572	0.376	0.46	0.304	0.416	0.276
6	0.86	0.564	0.69	0.456	0.624	0.414
10	1.43	0.94	1.15	0.760	1.04	0.690
16	2.29	1.50	1.84	1.22	1.66	1.10
25	3.58	2.35	2.88	1.90	2.60	1.73
35	5.01	3.29	4.03	2.66	3.64	2.42
50	7.15	4.70	5.75	3.80	5.20	3.45
70	10.0	6.58	8.05	5.32	7.28	4.83
95	13.6	8.93	10.9	7.22	9.88	6.56
120	17.2	11.3	13.8	9.12	12.5	8.28
150	21.5	14.1	17.3	11.4	15.6	10.4
185	26.5	17.4	21.3	14.1	19.2	12.8
240	34.3	22.6	27.6	18.2	25.0	16.6
300	42.9	28.2	34.5	22.8	31.2	20.7
400	57.2	37.6	46.0	30.4	41.6	27.6
500	71.5	47.0	57.5	38.0	52.0	34.5
630	90.1	59.2	72.5	47.9	65.5	43.5
800	114.4	75.2	92.0	60.8	83.2	55.2
1000	143.0	94.0	115.0	76.0	104.0	69.0

Rating for any other duration :

1) Max. Initial Conductor Temperature during operation : XLPE PVC-A PVC-C
 90°C 70°C 85°C

1) Max. Final Conductor Temperature during short circuit : XLPE PVC-A PVC-C
 250°C 160°C 160°C

Formula relating short Circuit Rating with t second duration

Where, A = Area of cross section
 Isc = Short circuit rating for 1 second
 t = duration in seconds.
 k = a constant depends on Conductor & Insulation material
 k = 0.094 for Al conductor & XLPE Insulation
 k = 0.143 for Cu conductor & XLPE Insulation
 k = 0.076 for Al conductor & PVC-A Insulation
 k = 0.115 for Cu conductor & PVC-A Insulation
 k = 0.069 for Al conductor & PVC-C Insulation
 k = 0.104 for Cu conductor & PVC-C Insulation

Comparative Current Rating of 650/1100 Volts multicore heavy duty PVC Insulated Cable & XLPE Insulated Cables, 3, 3.5 & 4 cores Unarmoured/Armoured PVC Sheathed cables with Aluminium Conductor.

Nominal Size of Conductor	3, 3.5 & 4 Core PVC Insulated & Sheathed cables as per IS: 1554 (P-1)				3, 3.5 & 4 Core XLPE Insulated & Sheathed cables as per IS: 7098 (P-1)		
	In Ground	In Air	Approx Voltage Drop	Approx Voltage Drop	In Ground	In Air	Approx Voltage Drop
Sq.mm	Amps	Amps	V/Amps/Km	V/Amps/Km	Amps	Amps	V/Amps/Km
16	60	51	4.0	4.0	73	70	4.24
25	76	70	2.5	2.5	95	93	2.67
35	92	86	1.8	1.8	114	114	1.94
50	110	105	1.3	1.3	134	138	1.44
70	135	130	0.94	0.94	164	175	1.00
95	165	155	0.68	0.68	197	216	0.70
120	185	180	0.55	0.55	223	249	0.56
150	210	205	0.46	0.46	249	284	0.48
185	235	240	0.37	0.37	282	329	0.40
240	275	280	0.30	0.30	327	392	0.30
300	305	315	0.26	0.26	369	452	0.26
400	335	375	0.22	0.22	420	526	0.21



Handling & Storage

Handling (Unloading at Site)

On receipt of the cable drum, visual inspection of the drum should be made. While unloading the drums from the lorry/trailer, a crane or suitable derrick system with chain pulley arrangement should be used and the drums carefully lifted and deposited on the ground. When lifting the drums with a crane, it is recommended that the lagging should be kept in place to prevent the flanges from crushing on to the cable. If the crane is not available, a ramp should be prepared with approximate inclination of 1:3 or 1:4. The cable drum should be rolled over the ramp by means of ropes and winches. Under no circumstances should the drums be dropped on the ground as the shock may cause serious damage to the inner layer of the cables. Cables should not be dragged along the earth surface.

Cable ends should always be sealed by means of suitable end sealing materials to prevent miniaturization of cores and armour. Drums should be rolled in the direction of arrows marked on the drums.

Storage

The site chosen for the storage for the cable drums should be dry and covered to prevent exposure to climatic conditions and wear & tear of wooden drum. It should be preferably on a concrete / consolidated surface which will not cause the drum to sink and thus lead to flange and extremely difficult in moving the drums. The drum should be stored in such a manner as to leave sufficient space between them for air circulation. It is desirable for the drums to stand on battens placed directly under flanges. In no case shall the drums be stored flat i.e. with flanges horizontal.

Minimum Permissible Bending Radius

While installing the cables, the following minimum bending radius should be observed in order so that the cables, especially insulation, may not undergo damage. Whenever possible larger bending radius should be used.

VOLTAGE RATING	PVC & XLPE Cables	
	Single Core	Multicore
kV		
Upto 1.1	10D	12D
Above 1.1 to 11	15D	15D
Above 22 & 33 kV	20D	20D

Where D is outer diameter of cable

Cable Selection Guide

Materials Comparison Chart

KEI offer a wide range of materials for the purpose of insulation and sheathing. KEI is putting their effort to design the cables by careful balancing the properties of selected materials in combination with a view to meet the specific environmental and installation conditions.

Any material does not possess universal properties which is suitable for all conditions. This will be evident from the comparison chart.

Although this chart does not provide the detailed information of all the materials and combinations of them with every pertinent characteristics, it serves as a guideline of information which a cable specialist requires to ensure most appropriate design to meet specific needs.

Please do consult our experts from the Technical Services Department of KEI Industries Limited, Cable Division.



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