KEI INDUSTRIES LIMITED

Registered and Corporate Office:
D-90, Okhla Industrial Area Phase-I, New Delhi-110020, Tel: +91-11-26818840/8642/0242,
Fax: 26817225, 26811959, E-Mail: info@kei-ind.com, Website: www.kei-ind.com, CIN No: L74899DL1992PLC051527

MARKETING OFFICE MUMBAI

KEI Industries Ltd. Nirvan Corporate, 7th Floor, Opposite Aghadi Nagar, Pump House, Rajmata Jijabai Road, Andheri (E), Mumbai – 400093
Tel: +91-22-28239673, 28375642, Fax: +91-22-28258277, e-mail: mumbai@kei-ind.com

MANUFACTURING UNITS

Bhiwadi
KEI Industries Ltd.
SP-919/920/922, Riico Industrial Area,
Phase-III, Bhiwadi,
Distt. Alwar-301019 Rajasthan
Tel: +91-1493-220106/221731
Fax: 221731 e-mail: bhiwadi@kei-ind.com

Silvassa
KEI Industries Ltd.
99/2/7, Madhuban Industrial Estate,
Rakholi, Silvassa-396230
Dadra & Nagar Haveli
Tel: +91-260-2644404/2630944
Fax: 2645896 e-mail: silvassa@kei-ind.com

Chopanki
KEI Industries Ltd.
A-280/281/282/283/284,
Riico Industrial Area (Chopanki)
Distt. Alwar-301019 Rajasthan
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e-mail: chopanki@kei-ind.com

BRANCH OFFICES

North

Jaipur
KEI Industries Ltd.
Shivam Business Center, 405 4th Floor,
Calgary Hospital Road,
Pradhan Marg, Malviya Nagar,
Jaipur - 302017 (Rajasthan)
Phone No. +91 141 5179279
Tele Fax : +91 141 222 1707
Mob : +91 99290 93711,
e-mail : jaipur@kei-ind.com

Bareilly
KEI Industries Ltd.
D-201/19 Doctor Colony
Civil Lines, Bareilly-243001

Chandigarh
KEI Industries Ltd.
SCO-84, 1st Floor, Swastik Vihar, MDC,
Sector-5, Panchkula-134109
Tel: +91-172-4416301 Fax: 4416300
e-mail: chandigarh@kei-ind.com

Gurgaon
KEI Industries Ltd.
H.No 27. 2nd Floor, Lane-2,
Shiv Vihar, Rajeev Nagar,
Gurgaon-122001,
Mob: +919873561757
e-mail: rksingh@kei-ind.com

Lucknow
KEI Industries Ltd.
102 1st Floor, Saran Chamber-2,
5 Park Road,
Lucknow-226001 UP
Tel: 0522-4010752

Dehradun
KEI Industries Ltd.
H.No. – 329, Lane No-13,
Mohit Nager
Dehradun – 248001 (U.K.)
Tel: 0135 – 2762223.
e-mail: depotdehradun@kei-ind.com

Panipat
KEI Industries Ltd.
C/o Narinder Gupta
Mob: +91-8950660777

Noida
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Sec-63 Noida-201301,
Uttar Pradesh, Mob: +91-9654126322

West

Solapur
KEI Industries Ltd.
Tel: +91-9881988017
e-mail: nagesh.basude@kei-ind.com

Pune
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Vasudha Equinox,
Office No. 104, 1st Floor,
Mouje Bopodi, Near Khadki
Railway Station, Pune-411003
Tel: 020-65600891/ 65600892
+91-9823295878/ 9922226699
e-mail: pune@kei-ind.com

Baroda
KEI Industries Ltd.
803-804, Siddharth Complex,
Near Hotel Express, R.C. Dutt
Road, Baroda-390007
Tel: +91-265-6539719, 2341831,
9824087943 / 9824676443
e-mail: baroda@kei-ind.com

Ahmedabad
KEI Industries Ltd.
301, Sarthik Complex Opposite
Iscon Brts Bus Stop Off S.G.
Highway, Satellite, Ahmedabad
Tel: +91-079-40306577,
09374894036, 9825321007,
e-mail: ahmedabad@kei-ind.com

Vapi/Silvassa/Daman
KEI Industries Ltd.
Mr. Harsh Desai, Mob: 9723455316
e-mail: harsh.desai@kei-ind.com

Surat
KEI Industries Ltd.
703,Royal Trade Centre. Opposite
Star Bazzar, Adajan-Hazira Road,
Adajan. Surat-395009,
Mob: 09879018448
e-mail: rakesh.patel@kei-ind.com

Nasik
KEI Industries Ltd.
Mr. Ghanshyam Pardeshi
4, Sanket Apartment, Tidake
Colony, Behind Hundai Showroom,
Nashik, Maharashtra – 422002
Mob No. 8805369705 / 9673004877

Raipur
KEI Industries Ltd.
B-39, Sector - 2, Main Road,
Devendra Nagar, Raipur
Pin Code- 492001

Nagpur
KEI Industries Ltd.
Mr. Saranjeet S. Kohli
103, Misal Layout, Near
Maharashtra School,
Nagpur - 440014,
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e-mail: nagpur@kei-ind.com

Aurangabad
KEI Industries Ltd.
Mahesh Pandurang Akalekar,
Flat No. 11, Padmini Housing
Society, Nakshtra Park, Beside
Walmi Naka, Paithan Road,
Aurangabad, Pin: 431 005
Mob.: 9075008151, 9673004877

Goa
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Mr. Shailesh Phal Dessai
F-1, Shetye Apts, Antilpeth,
Bicholim, Goa - 403 504
Tel: 09765394685,
e-mail: goa@kei-ind.com

Kolhapur
KEI Industries Ltd.
Mr. Rajaram B Kamble
Tel: +91-9371104263
e-mail: kolhapur@kei-ind.com

Indore
KEI Industries Ltd.
Premises No 513, 5th Floor New
Siyaganj Mall Godown Road,
Indore-452010 (M.P)

Bhilai
KEI Industries Ltd.
B-39, Sector-2, Main Road,
Devendra Nagar, Raipur,
Chhattisgarh, Pin Code: 492001

Rajkot
KEI Industries Ltd.
Mr. Nitin Tank, Mob: +91-8155044144
e-mail: nitin.tank@kei-ind.com

East

Kolkata
KEI Industries Ltd.
Arihanth Benchmark, 4th Floor,
113-F Matheshwartola Road, Ps :
Tiljala, Kolkata: 700 046
Tel: 033 - 4062 0820 /4062 0822
Fax: 033 - 4062 0821
e-mail: kolkata@kei-ind.com

Jamshedpur
KEI Industries Ltd.
Flat C1/3, Sabitri Tower, 1st Floor,
Ulyan Kadma, Jamshedpur-831005,
Jharkhand, Tel: 09470391385

Bhubaneshwar
KEI Industries Ltd.
Plot No- 139, 3rd Floor, Rose Dale
Distric Centre, Chandrashekharpur,
Bhubaneswar-751016, Odisha
Tel: +91-7894417222/ 8763215541
e-mail: odisha@kei-ind.com

Ranchi
KEI Industries Ltd.
Golden Camp, Old H B Road
Kokar, Ranchi - 834 001
Contact: 099340 11405 /
09810492658
e-mail :Jharkahnd@Kei-Ind.Com

Patna
KEI Industries Ltd.
Hig Plot No-4h/59, Bahadurpur
Housing Colony, Lohia Nagar,
Agamkuan, Patna 800026 Bihar,
Tel: +91-9608437514
e-mail: bihar@kei-ind.com

Guwahati
KEI Industries Ltd.
Pick Me, House No. 316,
Adhar Apartment,
Mother Teresa Road,
Hatigarh Charali P. O. Zoo Road,
Dist- Kamrup, Guwahati-781024
Assam Contact: 81348 46024
/97060 81442
email: northeast@kei-ind.com

South

Chennai
KEI Industries Ltd.
Flat No. 10, 1st Floor,
Rams Apartment,
New No: 68 (Old No: 141),
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Teynampet, Chennai-600018
Tel: +91-44-42009120
Fax: +91-44-42009130
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Vijaywada
KEI Industries Ltd.
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Residency-3
Opp.Acp Office, Kanuru,
Vijaywada-520007
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Bangalore-560020
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Kochi
KEI Industries Ltd.
71/957, Bava Memorial Building,
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Mob: +91-9388534355, Tel:
0484-3017174
e-mail: cochin@kei-ind.com

Hyderabad
KEI Industries Ltd.
Plot No. 76, H.No. 3-14-52/1,
Shubodaya Colony, Near Little
Chums School, Mansoorabad,
Vanasthalipuram,
Hyderabad-500070
Tel: +91-40-20064358,
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Coimbatore
KEI Industries Ltd.
AF-7, Sathyam Block, Krishna
Brindavan Apartments, SNV
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Off Nanjundapuram Road,
Ramanathapuram,
Coimbatore 641 045
Tel: 09840048035
e-mail:k.sundararajan@kei-ind.com

MARKETING OFFICES OVERSEAS

Dubai
KEI Industries Ltd.
Post Box No. 261739,
Jebel Ali Free Zone, Dubai, U.A.E.,
Tel: +971 4 881 2310, +971 50 2112013,
Fax: +971 4 881 2311
e-mail: keidubai@emirates.net.ae
/dubai@kei-ind.com
Contact: Mr. Shri Tamhankar

Singapore
KEI Industries Ltd
No.52, Ubi Avenue 3, # 04-37 Frontier,
Singapore-408867, Tel:+65 83240193
e-mail: xavier@kei-sin.com
Contact: Mr. Xavier Toh Hong Ghee

Kazakhstan (Marketing Representative)
KEI Industries Ltd
e-mail: parvez.marfani@kei-ind.com
Contact: +77022189717

Korea (Local Representative)
KEI Industries Ltd
Contact: Mr. Ch Han
e-mail: ch.han@kei-ind.com
Contact : +82-10-4351-8585
Mr. Th Park
e-mail: th.park@kei-ind.com
Contact: +82-10-9104-4519

Nigeria (Marketing Representative)
e-mail: kunal.gupta@kei-ind.com
Contact: +2348082550413

CableGrid
Australia Pty Ltd

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W: www.cablegrid.com.au

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Australia Pty Ltd.

KEI
Wires and Cables

ONE STOP SOLUTION FOR WIRES AND CABLES

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

KEI Wires and Cables

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, Excutive Director & CFO (Finance)

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

Factory Regd. No.

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

Excise Regd. No.

Bhiwadi	AAACK0251CXM002
Silvassa	AAACK0251CXM003
Chopanki	AAACK0251CXM004

Factory Area

Bhiwadi	52447 sq. mtrs. (Covered)
Silvassa	14595 sq. mtrs. (Covered)
Chopanki	19188 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

Organization Strength — Total Nos. 3580

Managerial	460
Supervisory	204
Office Staff	266
Workmen	2650

CABLEGRID™ Australia Pty Ltd.
P: 0487 007 123 / 1300 780 831
E: info@cablegrid.com.au
W: www.cablegrid.com.au

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 40 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, 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 three manufacturing units located at Bhiwadi, Chopanki and Silvassa. The current capacity stands at 48,00,000 kg per annum for stainless steel wire division, 5,500 km per annum for HT cables, 35,000 km per annum for LT power cables, 18,000 km per annum for control cables, 10,000 km per annum for instrumentation cables, 6,000 km per annum for rubber cable and 5,00,000 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.

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Australia Pty Ltd
P: 0487 007 123 / 1300 780 831 E: info@cablegrid.com.au W: www.cablegrid.com.au

Exports

The company enjoys a presence across almost over 40 countries: Algeria, Mozambique, Korea, Yemen, Australia, Bangladesh, Canada, Congo, Cyprus, Ethiopia, France, Ghana, Germany, Italy, Iran, Iraq, Indonesia, Japan, Kenya, Mauritius, Mexico, Nigeria, New Zealand, Philippines, Qatar, Sri Lanka, Saudi Arabia,singapore, South Africa, Swetzerland, Tanzania, UAE, Uganda, UK. USA, Vietnam, West Indies & Zambia. The company drives almost 20% of its revenue from the overseas market.

Performance

Financial Performance of the Company

Particulars	01.04.14 to 31.03.15 (₹ in Lakh)	01.04.14 to 31.03.15 ($ in Million)	01.04.13 to 31.03.14 (₹ in Lakh)	01.04.13 to 31.03.14 ($ in Million)	01.04.12 to 31.03.13 (₹ in Lakh)	01.04.12 to 31.03.13 ($ in Million)
Sales & Other Income	2,03,333.55	338.89	1,62,018.64	270.03	1,66,070.75	276.78
Profit Before Interest, Depreciation & Taxes	19,786.24	32.98	15,432.05	25.72	17,287.46	28.81
Less : Financial Charges	12,039.49	20.07	11,153.06	18.59	10,935.37	18.22
Depreciation	2,458.49	4.10	2,097.35	3.50	2,044.48	3.41
Profit Before Tax	5,287.95	8.81	2,181.64	3.63	4,307.61	7.18
Provision for Taxation						
- Current Tax	1113.27	1.86	459.97	0.77	850.98	1.42
- Deffered Tax	750.15	1.25	547.10	0.91	822.85	1.37
- Provision - Earlier Years	(0.42)	0.00	14.49	0.02	0.08	0.00
Profit After Tax	3,424.95	5.71	1,160.08	1.93	2,633.70	4.39

Note: The dollar rate considered for conversion is $1 = INR 60
** Values appearing as 0 due to conversion

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 220 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.

KEI's Product Range

- EHV Cables up to 220 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
- Dry Filled Telephone Cables
- Automatic Cables
- Welding Cables
- Submersible Cables / Winding Cables
- Ship Wiring Cable
- Mining Cable-Rubber as per IS 14494 & PVC
- Cables for Offshore Installation
- Cables for Defence
- AB Cables

ISO CERTIFICATES

DNV

DNV BUSINESS ASSURANCE

MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 98930-2011-AE-IND-RvA Rev. 01

This is to certify that

KEI Industries Ltd

at

Unit 1: 919, 920, 922, RIICO Industrial Area, Phase III, Bhiwadi - 301 019, District: Alwar, Rajasthan, INDIA
Unit 2: 99 / 2 / 7, Madhuban Industrial Estate, Rakholi, Silvassa - 396 230, Dadra & Nagar Haveli, INDIA
Unit 3: 280 - 284, Chopanki Industrial Area, Bhiwadi - 301 019, District: Alwar, Rajasthan, INDIA

has been found to conform to the Environmental Management System Standard:

ISO 14001:2004

This certificate is valid for the following scope:

MANUFACTURE AND SUPPLY OF ALL TYPE 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

Initial Certification date:
30 June 2011

This Certificate is valid until:
29 June 2017

The audit has been performed under the supervision of:
Balwant Rai
Lead Auditor

RvA MGMT. SYS. C 024

Place and date of issue:
Chennai, 17 June 2014

for the Accredited Unit:
DET NORSKE VERITAS CERTIFICATION B.V.,
THE NETHERLANDS

Sivadasan Madiyath
Management Representative

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

DET NORSKE VERITAS CERTIFICATION B.V., Zwolseweg 1, 2994 LB Barendrecht, The Netherlands, TEL: +31 10 2922 688 - www.dnv.com / www.dnv.nl
ISSUED BY: DNV BUSINESS ASSURANCE INDIA PVT. LTD, 201, 2ND FLOOR, KUMAR PLAZA, KALINA KURLA ROAD, KALINA VILLAGE, SANTACRUZ (E), MUMBAI - 400 029, INDIA
www.dnvgl.com

DNV BUSINESS ASSURANCE

MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 1385-2007-AQ-IND-RvA Rev. 04

This is to certify that

KEI Industries Ltd

at

Regd. Office: D - 90, Okhla Industrial Area, Phase I, New Delhi - 110 020, INDIA
Unit 1: 919, 920, 922, RIICO Industrial Area, Phase III, Bhiwadi - 301 019, District: Alwar, Rajasthan, INDIA
Unit 2: 99 / 2 / 7, Madhuban Industrial Estate, Rakholi, Silvassa - 396 230, Dadra & Nagar Haveli, INDIA
Unit 3: 280 - 284, Chopanki Industrial Area, Bhiwadi - 301 019, District: Alwar, Rajasthan, INDIA

has been found to conform to the Quality Management System Standard:

ISO 9001:2008

This certificate is valid for the following scope:

MANUFACTURE AND SUPPLY OF ALL TYPE 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

Initial Certification date:
12 December 2000

This Certificate is valid until:
29 June 2017

The audit has been performed under the supervision of:
Balwant Rai
Lead Auditor

MGMT. SYS. RvA C024

Place and date of issue:
Chennai, 17 June 2014

for the Accredited Unit:
DET NORSKE VERITAS CERTIFICATION B.V., THE NETHERLANDS

Sivadasan Madiyath
Management Representative

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

DET NORSKE VERITAS CERTIFICATION B.V. Zwolseweg 1, 2994 LB Barendrecht, The Netherlands, TEL: +31 10 2922 688 - www.dnv.com / www.dnv.nl
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www.dnvgl.com

DNV BUSINESS ASSURANCE

MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 98931-2011-HSO-IND-DNV Rev. 01

This is to certify that

KEI Industries Ltd

at

Unit 1: 919, 920, 922, RIICO Industrial Area, Phase III, Bhiwadi - 301 019, District: Alwar, Rajasthan, INDIA
Unit 2: 99 / 2 / 7, Madhuban Industrial Estate, Rakholi, Silvassa - 396 230, Dadra & Nagar Haveli, INDIA
Unit 3: 280 - 284, Chopanki Industrial Area, Bhiwadi - 301 019, District: Alwar, Rajasthan, INDIA

has been found to conform to the Occupational Health and Safety Management System Standard:

OHSAS 18001:2007

This certificate is valid for the following scope:

MANUFACTURE AND SUPPLY OF ALL TYPE 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

Initial Certification date:
30 June 2011

This Certificate is valid until:
29 June 2017

The audit has been performed under the supervision of:
Balwant Rai
Lead Auditor

DET NORSKE VERITAS 1864

Place and date of Issue:
Chennai, 17 June 2014

for the Certifying Unit:
DNV BUSINESS ASSURANCE INDIA PVT LTD
MUMBAI, INDIA

Sivadasan Madiyath
Management Representative

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

ISSUED BY: DNV BUSINESS ASSURANCE INDIA PVT LTD, 201, 2ND FLOOR, KUMAR PLAZA, KALINA KURLA ROAD, KALINA VILLAGE, SANTACRUZ (E), MUMBAI - 400 029, INDIA
www.dnvgl.com

NABL

National Accreditation Board for Testing and Calibration Laboratories

(An Autonomous Body under Department of Science & Technology, Govt. of India)

CERTIFICATE OF ACCREDITATION

KEI INDUSTRIES LTD. (QUALITY ASSURANCE LABORATORY)

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

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

for its facilities at

SP-919, 920, 922, RIICO Industrial Area, Bhiwadi, Alwar, Rajasthan

in the discipline of

ELECTRICAL TESTING

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Certificate Number T-1616

Issue Date 18/06/2015

Valid Until 17/06/2017

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the additional requirements of NABL.

Signed for and on behalf of NABL

N. Venkateswaran	Anil Relia	Prof. Ashutosh Sharma
Program Manager	Director	Chairman

DNV·GL

TYPE APPROVAL CERTIFICATE

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

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

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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

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

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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.

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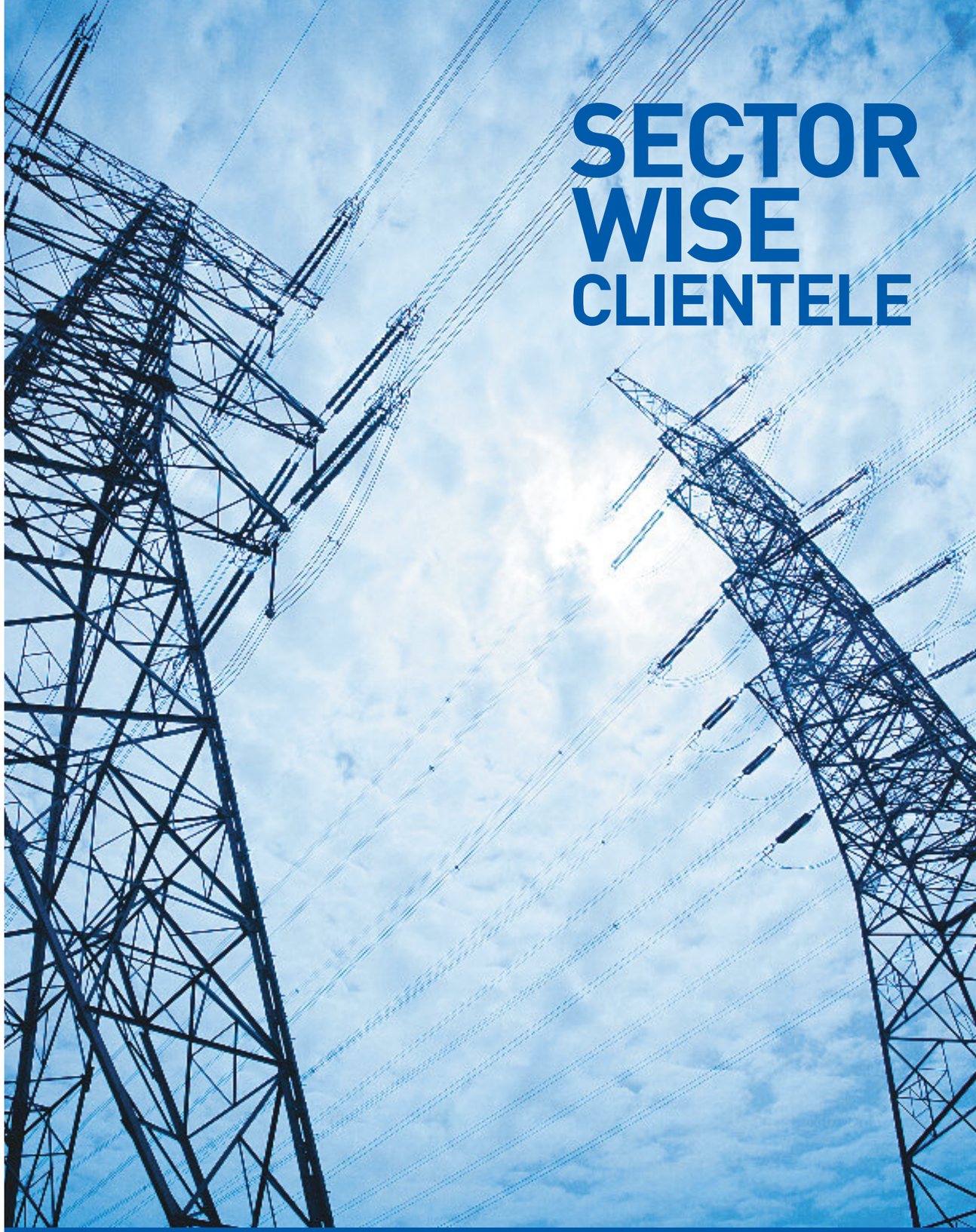

SECTOR WISE CLIENTELE

SECTOR 1	INTERNATIONAL EPC'S	COUNTRY
	ABB	INDIA
	AREVA	UAE, BANGLADESH
	SIEMENS	BANGLADESH, INDIA, QUTAR, 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, QUTAR
	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

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

SECTOR WISE CLIENTELE

SECTOR 7	FERTILISERS	COUNTRY
	NATIONAL FERTILISERS LTD	INDIA
	INDIAN FARMERS AND FERTILSERS 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 HOSPTALS	INDIA
	PVR MULTIPLEX	INDIA

SECTOR WISE CLIENTELE

	INOX MULTIPLEX	INDIA
	ICICI BANK	INDIA
	HSBC BANK	INDIA
	DUETSCHE 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 EXPORT ORDERS EXECUTED

SR. NO	CLIENT	P.O. NO.	PROJECT	TYPE OF CABLE	VALUE (US$)
1	Enexco Tecknologies	ET/U2/B01/28/2377/05-06 Dated 19.01.2006	Indonesia	Power & Control Cables	118,525.00
2	Tokyo Deusei Industrial Co. Ltd.	37-088-001 Dated 16-2-2006	Japan	Instrumentation Cable	117,310.00
3	Modern Electrical Supplies Ltd. Trinidad, West Indies	PCP-1 Dated 28-2-2006	West Indies	Power & Control Cables	587,160.00
4	Intop International	PO Dated 30-3-06	Abu Dhabi	Power & Control Cables	283,932.00
5	Siemens Ltd.	4500718494 Dated 31-3-2006	Nigeria	Power & Control Cables	1,222,230.00
6	BMC AL Mehdar & Associates Co.	PO Dt. 25-4-2006	Yemen	HT Power Cables	480,255.00
7	Skipper Electrical	SEIL/VD/37 Dated 20-5-2006	Dubai	HT Power Cables	180,790.00
8	M.E. & W.	PO Dated 27-5-2006	Baharain	Power Cable	267,000.00
9	Federal Electricity & Water Authority	92/7/106/2006 Dated 14-6-2006	Dubai	Power Cable	411,800.00
10	Punj Lloyd Ltd. - Singapore	Proj-TS/PLL/PO-0050 Dated 5-6-2006	Singapore	Power & Control Cables	796,964.00
11	National Petroleum Construction Co.	5108-2006/52197-AC Dated 20-6-06	Abu Dhabi	Offshore Cabels	103,895.00
12	Honeywell Middle East Ltd	402805 Dated 12.7.06	Abu Dhabi	Instrumentation Cable	492,007.00
13	Alexandra Carbon Black Co	ACB/Exp-V/06 682 Dated 25.7.6	Egypt	HT & LT cables	247,308.00
14	ALSTOM, France – Sohar Aluminium Project	743936P12 75010 00	Oman	HT 20 kV & LT Cables	HT 1,614,838.00 LT 1,694,169.00
15	ABB	140007888 Dated 29.7.06	PGCBL, 230 kV	LT Cables	311,111.00
16	Thyssenkrupp Ind.India P.L.	102891/E/SJH Dated 12.12.05	Tanjung Bin Malaysia	LT & Signal Cables	440,000.00
17	ABB – Sudan	140007203 Dated 23.8.06	Sudan	LT Cables	933,333.00
18	Cable Britain Ltd.	039433 Dated 30.11.06	GE-USA	Instrument Cables	93,486.50
		KEI/BLR/08-09/Q-354 R4 Dated 27.06.08	Emirates Steel Project-Dubai	HT Copper Cable	310464.00
		3191100414 Dated 02.07.08	Star Cement Dubai	LT Control & Power Cable	1277790.00
19	BHEL Noida	PE/MM/KOS/P-568/07 Dated 31.10.07	Kosti Sudan	LT Control Cables	301527.00
		4578150 Dated 21.09.07	Afghanistan	LT Power Cables	269016.00
		TBMM/4578247 Dated 4.12.07	Afghanistan	LT Control & Power Cables	384048.00
20	Technofab Engineering Ltd	3487/LOI/20/1302 Dated 02.06.08	Ethiopia	LT Power Cables	411031.00

LIST OF MAJOR EXPORT ORDERS EXECUTED

SR. NO	CLIENT	P.O. NO.	PROJECT	TYPE OF CABLE	VALUE (US$)
21	TRF Limited	2008802105/0802/BMHS Dated 19.08.08	Shadeed Iron, Oman	LT Cables	437,883.19
22	Emirates Steel Co. LLC	ESL/014/2008 Dated 09.03.08	Emirates Steel Project Abu Dhabi	Power Cables / Control Cable	805,442.00
	Emirates Steel Co. LLC	ESL/015/2008 Dated 05.05.08	Emirates Steel ProjecT Abu Dhabi	Power Cables / Control Cables	90,000.00
23	DODSAL & Co. LLC	62/MUK/PO/100 Rev.0 Dated 16.02.08	Occidental Mukhaizna LLC (OXY) OMAN	Power & Control Cable	961,205.00
		62/MUK/PO/124 Rev.0 Dated 01.05.08	Mukhaizana Project	Power Cables	862,927.97
24	Electro Rak LLC	OP2-1 Dated 22.04.08	Al Gaith Power Plant, RAK, UAE	MV Cables	2,503,250.00
25	National Electric Power Co., Amman-Jordan	1/2007 Dated 05.11.07	Annual Tender - 2007	Power Cables	786,842.00
		65/2007 Dated 09.02.08	Tender requirements	HT Cable	370,843.56
26	Gulf Petrochemical Services &Trdg	3-2008-010003 Dtd. 02.01.08	Oman Gas	Power Cable/ Control Cable	1,504,446.00
		3-2008-010004 Dtd. 02.01.08	Oman Gas	Power Cable/ Control Cable	1,867,125.00
27	Almana Trading CoDoha Qatar.	OG/7522/07. CD 092/2007 Dated 26.12.07	Tender requirements	Power Cables	110,440.00
28	Honeywell - Abu Dhabi	Email Dated 05.04.07 (Ref 410669)	Subsation job	Power/ Instrumentaton/ Thermocuple	94,636.44
29	Federal Electricity & Water Authority	1 (23 EW 2007) Dated 26.02.08	Annual Tender-2008	Power Cables	3,584,196.00
		1 (1 / EM 2007) Dated 07.01.07	Annual Tender-2007	Power Cables	5,467,185.00
30	Alstom Power Centrales, France	743936P2 75010 11701 Dated 10.10.06	Sohar Aluminium-Oman	MV & LV Cables	3,309,408.00
31	Vai Pomini-Seimens Italy	42000-12784 Dated 16.02.06	Qatar Steel Plant	Instrumentaion, Control & Ground Wires	579,176.00
		ET/U2/BOI/254/1604/04-05 Dated 25.03.05	Jebel Ali Cement Plant Dubai, UAE	LT - XLPE Power Cables	278,409.00
		211/PO/025 Dated 11.02.08	Oil Storage & Terminal Facilities, Oman	Instrument Cable	351,047.00
32	Punj Lloyds Ltd, Abu Dhabi	PLL-AD/502/07-08/PO-077 Dated .10.07	Qatar Petrolium	Instrument Cable	780,000.00
33	Middle East Control Services	2639 Dated 05.05.07	M2601-GAsco-ruwais 3rd NGL Train	Instrumentaion Cable/FS Cables Power Cable / Earthing Cable	115,000.00
		ESL/ELE/010/2008 Dated 22.04.08	Emirates Steel Project Abu Dhabi	MV Cables	262,265.00
34	Danway Electrical & Mechanical Engg LLC, Dubai	LOI NO. OM 313/6171/07 Dated 21.11.07	Sohar Aluminium Oman	Power Cable,Inst. Cable	108,306.74
35	Alstom Power Centrales, France	743936P2 75010 11701 Dated 10.10.06	Sohar Aluminium-Oman	MV & LV Cables	3,309,408.50

LIST OF MAJOR EXPORT ORDERS EXECUTED

SR. NO	CLIENT	P.O. NO.	PROJECT	TYPE OF CABLE	VALUE (US$)
36	Alexandria Carbon Back Co. S.A.E. - Egypt	ACB/EXP-V/06-000682 Dated 25.07.06	Factory Expansion	MV & LV Cables	247,308.80
37	Mohsen Al Naqeeb General Tading	PO 2006-031 Dated 14.05.06	PEC - YEMEN	MV, LV & ABC cables	480,255.00
38	M/s Areva T & D Systems India Ltd. Noida	EMI/736/CD1423 (Qatar) Dated 13.03.06	Qatar Transmission System Expansion Phase V-GTC/15/2003	Control & Power Cables	129,806.00
39	Vai Pomini - Seimens Italy	42000-12784 Dated 16.02.06	Qatar Steel Plant	Instrumentaion, Control & Ground wires	579,176.00
40	M/s Alstom system Ltd. Noida	EMI/047/CD1423 (Qatar) Dated 09.05.05	Qatar Transmission System Expansion Phase V-GTC/15/2003	Control & Power Cables	171,853.00
41	ENEXCO Teknologies India Ltd	ET/U2/BOI/254/1604/04-05 Dated 25.03.05	Jebel Ali Cement Plant Dubai, UAE	LT - XLPE Power Cables	278,409.00
42	Larsen & Toubro Ltd, Kuwait	PO/NDP/L&T/KEI/2267 - Amt 1 Dated 07.05.08	Kafco, Kuwait	Instrument Cable	94,741.00
43	Dodsal Engineering & Construction LLC	62/MUK/PO/117 Dated 20.03.08	Mukhaizana Project	Instrumentaion Cable	726,210.93
44	Larsen & Toubro Ltd, Oman	211/PO/025 Dated 11.2.08	Oil Storage & Terminal Facilities, Oman	Instrument Cable	351,047.00
45	Larsen & Toubro Ltd, Kuwait	001260/EPF00125 Dated 26.12.2007	KAFCO, Kuwait	Instrument Cable	128,627.25
46	Toledo Electrical & Mechanical Works Est., Abu-Dhabi	P 6123-PO-006 Dated 27.11.07	GASCO, Abu Dhabi	Thermo Couple Cable	161,023.60
47	Punj Lloyds Ltd, Abu Dhabi	PLL-AD/502/07-08/PO-077 Dated 01.10.07	Qatar Petrolium	Instrument Cable	780,000.00
48	National Petroleum Construction Co.	6044-2007/62197-AC Dated 09.08.07	ONGC India	Instrumentaion Cable	96,479.50
		5108-2006/52197-AC Dated 20.06.06	4 Well Platform Project II (B&S- NH)	Instrumentaion Cable	103,895.00
49	Dodsal & Co. LLC	LOI Dated 26.04.08		Instrumentaion Cable	862,927.97
50	Cables Britain Ltd	039855 Dated 24.04.08		Instrumentaion Cable	358,469.83
		039961 Dated 17.09.08	Artenus	Instrumentaion Cable	83,673.99
		039918 Dated 21.07.08	Muskiz	Instrumentaion Cable	161,036.11
51	Powermac Cable	00010666 Dated 4.06.08	Self	Power & Control Cable	368,760.00
		00010665 Dated 4.06.08			476,860.00
		00010585 Dated 12.05.08			209,060.00
		101721 Dated 20.03.08			1,150,250.00
52	Powermac Cable (south Africa)	101975 Dated 07.07.08	Self	Power & Control Cable	1,532,650.00
53	JBF RAK LLC	PO/JBF RAK/UAE 222 Dated 04.07.08	Self	LT Power & Control Cable	242,000.00

LIST OF MAJOR EXPORT ORDERS EXECUTED

SR. NO	CLIENT	P.O. NO.	PROJECT	TYPE OF CABLE	VALUE (US$)
54	Intop International Top Products	15/2008 Dated 16.07.08		Leadsheath Cable	165,415.00
55	Alvern Cables	35425 Dated 04.09.08	Self	Power & Control Cable	796,531.00
56	Joba Trading Co Llc-dubai	KEI/JTC/7712 Dated 18.09.08	Self	Power & Control Cable	239,534.10
57	International Cable Management	4098 Dated 10.10.08	Self	Power & Control Cable	454,055.60
58	Skipper Electricals (Middle East)	SEME/KEI/15/08-09 Dated 19.10.08	FZE	HT Power Cable	187,000.00
		EMAIL			215,143.00
		Q-110R9/2008-09			395,386.80
		1-PO-3570-000-4-75-756-D Dated 21.07.08			228,909.00

LIST OF MAJOR EXPORT ORDERS EXECUTED

SR. NO	CLIENT	P.O. NO.	TYPE OF CABLE	VALUE (US$)
L.V. Power & Control Cable				
1	National Chlorine Industries Co. - Jordon	EXII/PO 094/14 Dt. 13.07.2014	Power Control Earthing	1,01,78,160
2	Gulf Spic Gen Trading & Contracting Co. Kuwait	PO 192 /055/0 Dt. 03.08.2014	LV Cables	1,26,38,894
3	Larsen & Toubro Limited - UAE	LTHEI-UAE/PO / LE 131117/ LVC/001 /14 Dt. 15.11.2014	LV Power Control & Earthing Cables	11,50,01,520
4	Al Kiyumi Electric & Trading Co LLC - Oman	1300131 Dt. 30.01.13	LV - Control Cables	1,05,96,000
5	Basem International General Trading Co. W.L.L, Kuwait	BITC/ORD/063/2013 Dt. 28.03.13	LV Cables	63,26,638
6	Jindal Shadeed - Oman	4500000765 Dt. 31.03.13	LV - Power Cable	10,67,97,084
7	Jindal Shadeed - Oman	4500000819 Dt. 14.04.13	LV Cables	1,81,31,400
8	Fortune Foods - Grenada	FORTUNEFOOD/ENQ-009 Dt. 01.07.13	LV Cables	87,35,520
9	M/s. J RAY McDermott EAST INC. DUBAI	0923-D5773-DD316836-AOO Dt. 06.02.12	LV & Instrumentation	1,50,42,810
10	KNPC / Bassam - Kuwait	140304 Dt. 29.08.11	LV Lead / Rubber Cable	77,19,029
11	Fortune Foods - Grenada	KEI/EXP/265/Q-1165 Dt. 08.10.11	Flexible & Control	81,60,900
12	Atech Industries - Korea / UAE	AT-POA11-0318B Dt. 18.03.11	LV / Battery Cables	67,91,520
13	Al Kiyumi Electric & Trading Co LLC - Oman	1100333 Dt. 28.03.11	LV Cable	1,05,75,000
14	National Petroleum Construction Co. , Abu Dhabi , UAE	8118-2009/92479-A Dt. 30.08.10	LV / Inst Cables	2,51,89,530
15	Petrofac Int., Sharjah, UAE	PO : 191030246 Dt. 18.11.09, Jihar Stage 3 Project, Hayan Petroleum, Syria	Various sizes LV cables 3c x 6 to 4c x 95 Sqmm	1,66,40,520
16	Al Hassan Electricals Company, Muscat, Oman	IPO-1921 Dt. 11.11.09	Various sizes LV cables 2c x 2.5 to 4c x 25 Sqmm	1,84,20,000
17	Al Hassan Electricals Company, Muscat, Oman	IPO-1824 Dt. 20.08.09	Various sizes LV cables 2c x 25 to 4c x 25 Sqmm	1,11,54,900
18	Specialized Power Products Est. UAE	PO 1001 Dt. 19.08.09	Various sizes LV cables 4C x 2.5 to 4c x 185 Sqmm	97,19,153
19	Star cement, Dubai, UAE	Cement Plant at Yemen	Various sizes LV cables 3C x 2.5 to 3.5c x 300 Sqmm	50,81,895
20	Canares Metel Supply Ltd., Dubai, UAE	Plant Expansion at Jebel Ali	Various sizes LV cables 3C x 1.5 to 3c x 120 Sqmm	60,48,012
21	Spectra Link, Muscat, Oman	OPRC - Oman	LV cables 3c x 1.5 / 2.5	8,07,600
22	Almana Trading Co, Doha - Qatar.	CD-014/2009 Dt. 20.06.09 - Qatar Steel Plant	1c x 725 Sqmm LV cable	56,47,320

LIST OF MAJOR EXPORT ORDERS EXECUTED

SR. NO	CLIENT	P.O. NO.	TYPE OF CABLE	VALUE (US$)
23	Federal Electricity & Water Authority, UAE	Annual Tender - 2009	Various Power cables 2c x 2.5 Sqmm to 3.5 c x 300 Sqmm	21,05,84,305
24	M/s Specialized Power Services, Dubai, UAE	P.O.NO : SPPE-OPO-09-16, Dated : 19/04/09	Various Power cables 2c x 2.5 Sqmm to 3 c x 240 Sqmm	77,18,203
25	Saudi Electricity Company, Saudi Arabia	Yearly Tender	LV Cable, 4c x 185 Sqmm	1,22,27,923
26	Gulf Petrochemical Services & Trading, Muscat, Oman	3-2009-020026, Dated : 03/02/09	LV Cable	62,02,920
27	Gulf Petrochemical Services & Trading, Muscat, Oman	3-2008-110073, Dated : 19/11/08	LV Cable	1,56,44,040
28	National Electric Power Company, Jordan	Contract No. 34/2008 Dt. 18.11.2008	LV Cables, Control Cables	6,52,71,836
29	Alhadha Trade & Agencies Est. Yemen	PEC Tender No. 131/2007	Stay & Earthing Wires	66,57,600
30	Almeer Technical Services Co. WLL, Kuwait	1-PO-3579-000-4-75-756-D Dt. 21.07.2008	Power & Instrumentation	1,37,34,564
31	Dodsal Engineering & Construction LLC, Muscat, Oman	Mukhaizana Project	Power Cables	5,17,75,678
32	Emirates Steel Co. LLC, Abu Dhabi, UAE	Emirates Steel Project - Abu Dhabi	Power / Control Cables	4,83,26,520
33	Federal Electricity & Water Authority, UAE	Annual Tender - 2008	Power Cables	21,50,51,760
34	National Electric Power Co., Amman - Jordan.	Annual Tender - 2007	Power Cables	4,72,10,520
35	Gulf Petrochemical Services & Trading, Muscat, Oman	Oman Gas	Power / Control cable	9,02,66,760
36	Gulf Petrochemical Services & Trading, Muscat, Oman	Oman Gas	Power cable/ Control cable	1,20,27,500
37	Dodsal Engineering & Construction LLC, Muscat, Oman	Occidental Mukhaizna LLC (OXY) Oman	Power & Control cable	5,45,71,849
38	Danway Electrical & Mechanical Engg LLC, Dubai / Oman	Sohar Aluminium. Oman	Power Cable, Inst. Cable	64,98,404
39	Almana Trading Co, Doha - Qatar.	Tender requirements	Power Cables	66,26,400
40	Federal Electricity & Water Authority, UAE	Annual Tender - 2007	Power Cables	32,80,31,100
41	Dhafir Engineering Services LLC, Abu Dhabi, UAE	Substation job	POWER / Instrumentation / Thermocouple	2,95,20,420
42	Intop - Abu Dhabi / Vai Pomini - Seimens Italy	Qatar Steel Plant	Instrumentaion, Control & Ground wires	3,47,50,560
43	ENEXCO Technologies India Ltd, UAE Project	Jebel Ali Cement Plant - Dubai, UAE	LT - XLPE Power Cables	1,67,04,540

LIST OF MAJOR EXPORT ORDERS EXECUTED

SR. NO	CLIENT	P.O. NO.	TYPE OF CABLE	VALUE (US$)
44	Larsen & Turbo, Mumbai, India / UAE	BUNDUQ Gas Re-injection Project at Abu Dhabi, UAE	LT Power,Control, Lighting & Instrumentation Cables	2,83,15,740
45	M/s BHEL Bhopal, India	400 kV Switchyard Project Stage-2 Baji Iraq	5-19C Control Cable	2,12,47,800
M.V./H.V. CABLES				
1	Basem International General Trading Co. W.L.L, Kuwait	BIGTC/ORD/110/14 Dt. 24.05.2014	HV Cable	60,48,860
2	The Jordanian Electric Power Company Limited (JEPCO) - Jordon	JEP 39 (D)/2013 Dt. 02.10.13	MV Cable - 8.7/15 1c x 400 Al - 87.5 Km	6,54,41,220
3	Haris Al Afaq , Dubai, UAE	GF/E/1741 Dt. 18.09.13	MV Cable - 11 kV 3c x 95/185/300 Al	73,95,000
4	Basem International General Trading Co. W.L.L, Kuwait	PIC PO - 26918 Dt. 12.08.12	MV 6/10(12 kV) 3c x 25 & 3c x 120 Cu & LV - Power Cable	76,82,700
5	Star contracting, Sudan	SC/PDOC/PO/ CABLES/0142/010 Dt. 22.02.10	LV / MV Cables - 19/33 kV 3c x 70 Sqmm Cu	90,38,860
6	Al Hassan Electricals Company, Muscat, Oman	IPO-2075 Dt. 04.04.10	MV Cables - 3.81/6.6 (7.2 kV) 3c x 95, 3c x 185 n 1c x 400 Cu	72,79,920
7	Star contracting, Sudan	SC/PDOC/SO-11/Cables/ PO/0315/010 Dt. 01.09.10	MV - 19/33 kV 3c x 70 Sqmm Cu / LV / Inst Cables	70,76,784
8	Haris Al Afaq, Dubai, UAE	GF/E/1552 Dt. 23.09.10	MV Cables - 6.35/11 kV 1C x 500 Al	78,98,284
9	Petrofac International Ltd, Sharjah, UAE	Jihar Stage 3 Project - Syria	MV 6/10(12 kV) 1c n 3c cable Cu & other LV - Power Cable	13,64,52,170
10	Star contracting, Sudan	SC/PDOC/PO/PC/089/09 Dt. 23.11.2009	MV - 19/33 kV 3c x 70 Sqmm Cu / LV / Inst Cables	70,76,784
11	Electro RAK LLC, RAK, UAE	Al Gailth Power Plant, RAK, UAE	MV cables 11 kV 1c x 500	15,01,95,000
12	Emirates Steel Co LLC, Abu Dhabi, UAE	Emirates Steel Project - Abu Dhabi	MV 18/30, 12/20 & 6/10 kV Cables	1,57,35,900
13	National Electric Power Co., Amman - Jordan.	Contract 14/2008	MV Cables 33 kV 1c x 300 / 800	2,22,50,614
14	Alstom Power Centrales , Oman	743936P2 75010 11701 Dt. 10.10.2006	MV 12/20 (24 kV) 3cx 70 / 185, 1c x 240 / 300 / 400 & LV Cables	19,85,64,510
15	Alexandria Carbon Back Co. S.A.E. - Egypt	ACB/EXP-V/06-000682 DT. 25.07.06	MV 6.3/6.3 kV 3c x 70 n 3c x 240 & LV Cables	1,48,38,528
16	National Petroleum Construction Co., Abu Dhabi, UAE	5108-2006/52197-AC Dt. 20.06.06	MV Cables - 3.6/6.6 kV 3c x 70 n 3c x 150 Cu & LV cables	62,33,700

LIST OF MAJOR EXPORT ORDERS EXECUTED

SR. NO	CLIENT	P.O. NO.	TYPE OF CABLE	VALUE (US$)
17	Mohsen Al Naqeeb General Trading , Dubai , UAE	PO 2006-031 Dt. 14.05.06 -PEC - Yemen	MV 8.7/15 kV 3cx 70 n 3c x 120 Cu, LV & ABC cables	2,88,15,300
CABLES - INSTRUMENT & COMMUNICATION				
1	SK Engineering & Construction - Korea	10014D-IN-PO-NK000-3 REV 0 Dt. 18.03.2014	Instrumentation Cables	1,46,85,600
2	SK Engineering & Construction - Korea	10014D-IN-PO-NK000-4 REV 1 Dt. 02.04.2014	Instrumentation Cables	1,62,16,170
3	Samsung C & T - Korea	5000138279 -1 Dt. 24.04.2014	Instrumentation Cables	4,53,58,260
4	SK Engineering & Construction - Korea	10014D-IN-PO-NK000-5 REV 0 Dt. 16.06.2014	Instrumentation Cables	1,15,87,440
5	Al Kiyumi Electric & Trading Co. LLC-Oman	1400841 Dt. 01.07.2014	Instrumentation Cables	73,72,420
6	Gulf Spic Gen Trading & Contracting Co. Kuwait	PO 192 /042/0 Dt. 10.07.2014	Instrumentation Cables	3,54,16,140
7	Essar Contractions Overseas Limited. - UAE	CS02/PT1/105000070 Dt. 14.07.2014	Instrumentation Cables	1,73,69,025
8	Basem International General Trading Co. W.L.L, Kuwait	BIGTC/ORD/177/14 Dt. 25.08.2014	Instrumentation Cables	65,41,500
9	Al Kiyumi Electric & Trading Co. LLC-Oman	1401184 Dt. 18.10.2014	Instrumentation Cables	1,20,78,072
10	Kharafi National KSC (Closed)-Kuwait	1771/2014-840/40131803 Dt. 18.11.2014	Instrumentation Cables	76,76,100
11	Larsen & Toubro Limited - UAE	LTHEI-UAE/PO / LE 131117/ IC/001 /14 Dt. 26.11.2014	Instrumentation Cables	5,05,58,940
12	Tyco Fire & Security - UAE	CA 137923 / 87100 REV 2 Dt. 05.01.14	Instrumentation Cables	85,33,620
13	Tyco Fire & Security - UAE	CA 138355 / 87133 Dt. 06.01.14	Instrumentation Cables	2,74,54,454
14	S.K.Engineering Korea / Turkey	10014D-EL-PO-EE300-03 REV 0 Dt. 23.01.14	Instrumentation Cables (FS Fire Alarm)	93,90,420
15	Samsung C & T - S. Korea / KNPC Kuwait Project	5000138279 Dt. 09.01.2014	FS Instrumentation Cables	4,53,58,260
16	Flowtech Industries LLP - India / KOC Kuwait Project	FT/CGCC/4955/LOI/056/14-15 Dt. 30.01.14	Instrumentation Cables (Lead Sheath)	9,00,00,000
17	S.K.Engineering S. Korea / Turkey Project	10014D-IN-PO-NK000-3 REV 0 Dt. 18.03.14	Instrumentation Cables	1,46,85,600
18	S.K.Engineering S. Korea / Turkey Project	10014D-IN-PO-NK000-4 REV 1 Dt. 02.04.14	Instrumentation Cables	1,62,16,170
19	National Petroleum Construction Co., Abu Dhabi, UAE	1267-2012/31312-AC Dt. 20.01.13	Instrumentation Cables	88,17,300
20	Almeer Technical Services Co. WLL, Kuwait	CC-1151-PO-55 Dt. 31.01.13	Instrumentation Cables	4,55,95,740
21	Petrofac International Ltd, UAE	199031063 Dt. 03.02.13	Instrumentation Cables	1,19,59,644
22	Technical Supplies International Co. - Oman	108937 Dt. 13.02.13	Instrumentation & Control Cables	78,81,300

LIST OF MAJOR EXPORT ORDERS EXECUTED

SR. NO	CLIENT	P.O. NO.	TYPE OF CABLE	VALUE (US$)
23	S.K.Engineering Korea / Turkey	10014D-LOI-IN-NK000 Dt. 08.03.13	Instrumentation Cables	1,38,81,000
24	Al Kiyumi Electric & Trading Co LLC - Oman	1300330 Dt. 26.03.13	Instrumentation Cables	72,22,080
25	Xervon Industries Ltd - UAE	NO48027/32/F/21 Dt. 28.04.13	LV Control & Instrumentation	61,96,350
26	Gulf Spic - Kuwait	PO183/077/0 Dt. 19.06.13	Instrumentation Cables	3,65,60,040
27	TYCO Fire & Security - UAE	CA137923/81768 Dt. 27.06.13	Control & Instrumentation Cables	3,01,68,000
28	Al Mulla - Kuwait	Email Dated : 03.07.13	FF & Instrumentation Cables	1,31,89,560
29	Al Kiyumi Electric & Trading Co LLC - Oman	1300749 Dt. 03.07.13	Instrumentation Cables	1,46,68,200
30	SPPE, Dubai, UAE	SPPE/JUL13/PO0096 Dt. 29.07.13	Instrumentation Cables	74,78,100
31	TYCO Fire & Security - UAE	CA137923/ 84285 Dt. 25.09.13	Control & Instrumentation Cables	1,21,08,900
32	Tyco Fire & Security - UAE	CA 138355 / 85622 Dt. 13.11.13	Instrumentation Cables	1,86,18,420
33	S.K.Engineering Korea / Turkey	10014D-IN-PO-NK000-2 Dt. 18.11.13	Instrumentation Cables	4,66,12,093
34	Al Kiyumi Electric & Trading Co LLC - Oman	1200035 Dt. 07.01.12	Instrumentation & Control Cables	1,22,40,000
35	Al Kiyumi Electric & Trading Co LLC - Oman	1200929 Dt. 09.04.12	Instrumentation Cables	76,68,240
36	Al Kiyumi Electric & Trading Co LLC - Oman	1200965 Dt. 16.07.12	Instrumentation Cables	62,92,800
37	Al Ghanim / Basem - Kuwait	2748 Dt. 02.09.12	Instrumentation Cables	5,31,88,692
38	Al Kiyumi Electric & Trading Co LLC - Oman	1201285 Dt. 13.10.12	Instrumentation Cables	2,33,88,000
39	Al Tamman / Ghalsasi Engineering Systems Pvt Ltd	ATIF/CBE/12-13/033 Dt. 22.11.12/ Al-Tamman INDSIL Ferrochrome LLC, Sohar, Oman project	Instrumentation Cables	88,58,858
40	Al Kiyumi Electric & Trading Co LLC - Oman	1201597 Dt. 24.12.12	Instrumentation Cables	84,14,369
41	Petrofac International Ltd, UAE	LOA 199030053 Dt. 29.03.11	Instrumentation Cables	18,19,62,600
42	Al Kiyumi Electric & Trading Co LLC - Oman	1100589 Dt. 15.05.11	Instrumentation & Control Cables	2,03,04,540
43	Cegelec - UAE	P000733 Dt. 24.05.11	Instrumentation Cables	88,39,500
44	Cegelec - UAE	P000827 Dt. 21.06.11	Instrumentation Cables	5,29,70,340
45	SHELL IRAQ	SIPD-KEI-2002-0001-L Dt. 17.08.11	Instrumentation Cables	3,97,80,150
46	Petrofac International Ltd (Iraq)	PS-2002-030120-000-L Dt. 27.09.11	Instrumentation Cables	3,62,72,400
47	Almeer Technical Services Co. WLL, Kuwait	CC-1151-PO-13 Dt. 22.10.11	Instrumentation & Control Cables	8,77,12,475
48	Petrofac International Ltd, UAE	PS-2002-030067-0001-L Dt. 03.02.11	Instrumentation Cables	2,06,84,268
49	Al Kiyumi Electric & Trading Co LLC - Oman	1100281 Dt. 26.02.11	Instrumentation Cables	3,62,56,877
50	L &T LTD - Oman	PO:HO-999 / OIL TANKING -Oman Dt. 07.03.10	Instrumentation Cables	98,04,000
51	Cegelec - UAE	901531848 Dt. 28.04.10	Instru / Rubber Cables	1,43,80,980

LIST OF MAJOR EXPORT ORDERS EXECUTED

SR. NO	CLIENT	P.O. NO.	TYPE OF CABLE	VALUE (US$)
52	Al Hassan Electricals Company, Muscat, Oman	IPO-2150 Dt. 12.05.13	Instrumentation Cables	1,15,35,840
53	Al Kiyumi Electric & Trading Co LLC - Oman	1000424 Dt. 31.05.10	Instrumentation Cables	85,91,370
54	Al Kiyumi Electric & Trading Co LLC - Oman	1000779 Dt. 18.09.10	Instrumentation Cables	1,09,05,960
55	Galfar / Spectral - Oman	3404643 Rev 00 Dt. 17.10.10	Instrumentation Cables	1,50,38,760
56	Al Kiyumi Electric & Trading Co LLC - Oman	1001074 Dt. 28.11.10	Instrumentation Cables	94,83,264
57	Al Kiyumi Electric & Trading Co LLC - Oman	1001077 Dt. 21.1.10	Instrumentation Cables	71,82,600
58	Al Hassan Electricals Company, Muscat, Oman	IPO-1788 Dt. 18.07.09	2P X 1Sqmm to 21C x 2.5 Instrumentation Cables	97,29,600
59	Dodsal Engineering & Construction LLC, Dubai, UAE	Takreer Project	Instrumentation Cable / Lead Sheath	7,81,00,500
60	Almeer Technical Services Co. WLL, Kuwait	1-PO-3579-000-4-75-756-D	Instrument Cable	1,34,32,512
61	Dodsal Engineering & Construction LLC, Muscat, Oman	Mukhaizana Project	Instrumentation Cable	5,54,78,275
62	Dhafir Engineering Services LLC, Abu Dhabi, UAE	Flare System # 1 & # 2 Upgrade - BHUASA - Gasco Project	Instrumentation Cable	3,07,28,860
63	Larsen & Toubro Ltd, Oman	Oil Storage & Terminal Facilities, Oman	Instrument Cable	2,10,62,820
64	Larsen & Toubro Ltd, Kuwait	KAFCO, Kuwait	Instrument Cable	77,17,635
65	Toledo Electrical & Mechanical Works Est., Abu- Dhabi, UAE	Gasco, Abu Dhabi	Thermo Couple Cable	96,61,416
66	Punj Lloyds Ltd, Abu Dhabi, UAE	Qatar Petrolium	Instrument Cable	4,68,00,000
67	Larsen & Toubro Ltd, Kuwait	KAFCO, Kuwait	Instrument Cable	1,36,73,460
68	Middle East Control Services, Dubai, UAE	M2601 - Gasco - RUWAIS 3rd NGL Train	Instrumentation Cable / FS cables / Power Cable / Earthing Cable	69,00,000
69	National Petroleum Construction Co., Abu Dhabi, UAE	4 Well Platform Project II (B&S- NH)	MV / LV Cables	62,33,700

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/ MPPKVVCL/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/MPPKVVCL/ 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-ARMD	
			3CX150 SQMM UPTO 3CX240 SQMM	
			6.6 kV (E) AL XLPE ARMD 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 ARMD 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 ARMD	
			3CX300 SQMM UPTO 3CX400 SQMM	11100000
7	HPCL - MUMBAI	LOI DT 27/07/09	22 kV (E) XLPE AL ARMD 3CX400 SQMM	9710000
8	BSES RAJDHANI POWER LTD	D01/23034185 DT 13/07/2009	11 kV (E) HT XLPE AL ARMD 3CX300 SQMM	13400000
9	BSES YAMUNA POWER LTD	D01/23034186 DT 13/07/09	11 kV (E) HT XLPE AL ARMD 3CX300 SQMM	74940000
10	BHEL - PEM	PW:PE:MW/ANP/P-381/09 DT 26/08/09	11 kV (UE) XLPE AL UNARMD	
			1CX630 SQMM UPTO 3CX185 SQMM	25400000
			3.3 kV (UE) XLPE AL UNARMD	
			1CX150 SQMM UPTO 3CX185 SQMM	5897000
			3.3 kV (UE) XLPE AL ARMD 3CX185 SQMM	800000
11	HPCL - MITTAL ENERGY LTD	7200000384 DT 27/08/09	33 kV (E) CU COND XLPE INS ARMD	
			1CX150 SQMM UPTO 1CX400 SQMM	
			6.6 kV (E) CU COND XLPE INS ARMD	354255000
			1CX240 SQMM UPTO 3CX300 SQMM	
			6.6 kV (E) AL COND XLPE INS ARMD	
			3CX185 SQMM UPTO 3CX300 SQMM	
			11 kV (E) XLPE AL UNARMD	
			1CX150 SQMM UPTO 3CX150 SQMM	
			11 kV (E) XLPE AL ARMD	

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 ARMD	
			1CX150 SQMM UPTO 3CX95 SQMM	
			3.3 kV (E) XLPE AL UNARMD	
			1CX150 SQMM UPTO 3CX150 SQMM	
12	BSES RAJDHANI POWER LTD	D01/23035644 DT 17/09/09	11 kV (E) HT XLPE AL ARMD 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 ARMD 3CX400 SQMM	9811000
15	BSES RAJDHANI POWER LTD	D01/23036970 DT 17/11/09	33 kV HT XLPE AL ARMD 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 ARMD 3CX120 & 3C X185 SQMM	44500000
19	KSEB	TCM - 184/2009-10/6646 DATED 17.02.10.	11 kV (E) HT XLPE /AL/ ARMD 3C X 300 SQMM	43300000
20	ESSAR PROJECTS (INDIA) LTD	PH01/E04/610015762 DT 03.02.10.	33 kV HT XLPE AL/ARMD 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/ ARMD 3C X 300 SQMM	16700000
22	BIECCO LAWRI LTD	PUR/NTR/LOI/33 kV DT 23.02.10.	33 kV (E) HT XLPE AL/ ARMD 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/ARMD 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/ ARMD 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/ARMD 3CX300 SQMM	19300000
26	JINDAL STEEL & POWER LTD	4571001288 DATED 06.03.10.	33 kV (UE), 3.3 kV,11 kV HT XLPE/AL1CX630 TO 3CX300	15800000
27	CESE LTD	DGM: MAT : 1178 DT 22.03.10.	11 kV E0 HT XLPE AL/ ARMD 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/ARMD/ 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/ ARMD 3CX95 TO 3CX240 SQMM	44300000
30	MANGALORE REFINERY	SKG/6782 - 000-XT - MR - 0230/25/105/P3-0116	33 kV (E) HT XLPE CU/ ARMD 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 INFRATECH 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 COMPANY	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 INFRATECH 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

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
90	HI- TECHNOCRATS PVT. LTD		6.6 kV (UE0 & 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/ DPSCL/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

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

SR. NO.	CLIENT/PROJECT	ORDER NO. & DATE	DESCRIPTION OF WORKS	TOTAL VALUE
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 FERTILIZRES 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&LT 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

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

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 INFRAST. 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

LIST OF ORDERS RECEIVED AND EXECUTED (HT CABLES)

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	AMIANTIT 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(1))	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 SQQM 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.ARMD. PVC SHEATED 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-ARMD/ 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 SHEATED 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 SHEATED 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 SHEATED 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-ARMD/ FRLS PVC ST-2 SHEATED 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-ARMD/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-ARMD/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	68900000
			1C X 630 SQMM	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/BO-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.ARMD. 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-ARMD/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 ARMD/ 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 ARMD/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 ARMD/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-ARMD/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/ARMD/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/ARMD/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/ ARMD/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/ARMD/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/ ARMD/HDPE ST-7 SHEATHED HT POWER CABLE	
			1C X 1000 SQMM	8551268
240	JVVNL(SAIDUR)	PO.NO.JPD/SE/PROC/SPO-1/TN-4401/D4334 Dt:13.11.13	11 kV/(E)AL/XLPE/ST-2/S-ARMD/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/UNARMD/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/ARMD/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/ARMD/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/ARMD/PVC ST-2 SHEATHED HT POWER CABLE	
			3C X 300 SQMM	16668000
245	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	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/ ARMD/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/ARMD/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	35562000
			1C X 400 SQMM TO 3C X 300 SQMM	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	19900004
			3C X 120 SQMM TO 3C X 300 SQMM	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	52197500
			1C X 400 SQMM TO 3C X 300 SQMM	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 POIWER 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 UNDERTEAKING	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 ELECRICITY 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	DVVNL	LOI.NO.151/S.E.(MM)/DVVNL-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/DVVNL/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/DVVNL/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 SHEATHEED 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(E)/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(E)/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(E)/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(E)/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(E)/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(E)/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(E)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(E)& 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(E)/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(E)/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	WBSEDCL	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/KEIIL/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

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/RAPDRLTABC/ 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	12263600
				3C95+1C70+1C16	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	9660000
				2.5CX16 SQMM UPTO 19CX2.5 SQMM	
20	BHEL RANIPET	NTPC-SIMHADRI	4283551 DT 26/03/2009	LT PVC UN-ARMD CU COND	8774000
				12CX1.5 SQMM UPTO 14CX1.5 SQMM	
21	TECHNO ELECTRIC & ENGG . CO	BSTS PKG OF POWER GRID	05619/09-10/243 DT 06/06/09	1.1 kV CU PVC INS	8679000
				2CX2.5 SQMM UPTO 27CX2.5 SQMM	
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	7500000
				3CX2.5 SQMM UPTO 5CX4 SQMM	
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	8471000
				2CX2.5 SQMM UPTO 12CX2.5 SQMM	
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	7900000
				4CX1.5 SQMM UPTO 14CX1.5 SQMM	
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	44200000
				2CX2.5 SQMM UPTO 16CX2.5 SQMM	
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-ARMD 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/ARMD 3CX 1.5 TO 24CX1.5	8774000
44	AREVA T&D INDIA LTD	PGCIL - BINA		CONTROL/CU/PVC/ARMD 3CX 2.5 TO 24C X 2.5	11300000
45	ABB LTD	PGCIL AGRA	3191310066	CONTROL/CU/PVC/ARMD 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/ARMD 2CX2.5 TO 19CX2.5 SQMM	21100000
48	TRF LTD	NTPC MAUDA	4600000503/ELECT/2401/ BMHS	CONTROL/CU/PVC/FRLS/UN-ARMD 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/ARMD 2CX2.5 TO 16CX2.5 SQMM	9985000
51	ABB LTD	GHORAHI CEMENT	3191339826	CONTROL/CU/XPE/ARMD 3CX1.5 TO 37CX1.5 SQMM	9176000
52	ABB LTD	PGCB BANGALADESH	3191308924 (amend -1 dt 25.01.11)	CONTROL/CU/XLPE/ARMD 3CX2.5 TO 27CX2.5 SQMM	8289000
53	BHEL -TAMIL NADU	NTPC- BARH (BIHAR)	FB-170-7100068649/06	CONTROL/CU/PVC/FRLS/UN-ARMD 2CX 2.5 TO 16 CX 2.5	17200000
54	ABB LTD	RRVUNL CHHABRA TPP,	3191353386	CONTROL/CU/PVC/ARMD 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/ARMD 3CX 2.5 SQMM	17800000
56	FLSMIDTH PVT. LTD	NTPC- RIHAND	FLSM/B/21054	CONTROL/VU/PVC/INS/ARMD 3CX 2.5 TO 7CX 2.5 SQMM	13200000
57	ABB LTD	2X135 MW SEPL	3191370641	CONTROL/ATC/PVC-A/FRLS/ ARMD 3CX2.5 TO 16CX2.5	8984000
58	POWERGEN INFRASTRUCTURE (L.L.C)	5X660 MW SUPER CRITICAL TPP	4500018368	CONTROL/CU/PVC/FRLS/ARMD 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/ARMD 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/ ARMD 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/ ARMD, 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/ARMD 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)	CONTROLCU/PVC/INS/ARMD 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/ ARMD 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/ ARMD 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/ ARMD 3CX1.5 TO 12CX2.5 SQMM	11200000
67	BHEL -TBG (LODHI ROAD)	RPCL YERAMARUS TPS	PO.NO. 222PO15	CONTROL/1.1 kV/CU/PVC/ARMD 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/ ARMD 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 ARMD/ 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/ARMD/ 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-ARMD/ 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 ARMD CONTRO 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)	WBPDCL SAGARDIGHI	PO.NO. 222P311	1.1 kV CU COND PVC INS ARMD 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-ARMD/ARMD CONTROL	
				7C X 2.5 SQMM TO 27C X 2.5 SQMM	12800000
75	L&T LTD	2X600 MW SINGHITARAI TPP, CHATTISGARH	PO.NO. E8450PO3000003	1.1 kV CU COND PVC-A INS UN-ARMD/ 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-ARMD/ARMD/ 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/O-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 INFRATECH 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 CCPP 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-BRBCL-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/ FRLARMD 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-O-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-O 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-O & O-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-O-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	MOM FINAL OFFER Dt:04.06.14	1.1 kV/CU/TYPE-A/O-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	HONEY WELLAUTOMATION	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

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/O-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	HMEL/BR/PUR-139 DT 06/02/2009	1.1 kV CU COND PVC INS & EPR INS	
		PIPELINE		3CX2.5 SQMM UPTO 24CX2.5 SQMM	11900000
4	BPCL	KOCHI REFINERY	10/TVR/6767/CEMP-II/MR-250/154/FOA-0702	1.1 kV CU COND PVC INS ARMD	
			DT 27/02/2009	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	975000
				2CX2.5 SQMM UPTO 30CX2.5 SQMM	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	VIJAIPUR, 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 TO30CX 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	84900000
				7C X 1.5 SQMM TO 19C X 1.5 SQMM	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	INSTRUMENTATIION CABLE	
				1PX1.5 SQMM UPTO 12PX1.5 SQMM	31200000
24	PUNJ LLOYD LTD	IOCL VADODARA	PLL/PROC/PEIN08-DUU/ INST CABLE/229	INSTRUMENT CABLE	
			DT 26/02/2009	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	22200000
				1TX1.5 SQMM UPTO 8TX1.5 SQMM	
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	8321000
				2P X0.75 SQMM TO 20P X 0.75 SQMM	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. SHIELDED 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. SHIELDED 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-O 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/ I02/2700004532	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/ I02/2700004527	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. SHIELDED 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 SHIELDED 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 SHIELDED 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.OGSP/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.ARMD.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-ARMD/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.ARMD./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/ARMD.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/ARMD/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-ARMD/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/ARMD/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/ARMD/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.M205DCL1I123-CPF-CN-PO-0001 Dt:16.06.14	CU/TYPE-C/SHIELDED./ST-2/ARMD/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/SHIELDED/ST-2/ARMD/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/SHIELDED/ST-2/ARMD/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. PO28692869/150504000002 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	11641636
				3C X 16 SQMM TO 3.5C X 300 SQMM	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	46520250
				3C X 4 SQMM TO 4C X 6 SQMM	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/TYPE-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 RIHANDEXTN	PO.NO.223P210 Dt:15.11.13	1.1 kV/CU/TYPE-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/TYPE-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/TYPE-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/TYPE-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/TYPE-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 PEGAPALLI 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/TYPE-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/TYPE-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/TYPE-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/TYPE-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/TYPE-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/TYPE-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/TYPE-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/TYPE-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.E9664PO4000008 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 INFRATECH 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.OGSP/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 INFRSTRUCTURE 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
				3C X 2.5 SQMM TO 4C X 25 SQMM	19836181
19	CONTROLLER OF PROCUREMENT	NIL	PO.NO.12B61C002 Dt:05.03.14	440V/CU/SILICON/EPR/ RUBBER CABLE	
				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

BRUGG CABLES
Well 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, Okhla Industrial Area, Phase-I, New Delhi 110020 with manufacturing units located at Bhiwadi Unit, SP-919/920, RIICO Industrial Area, Phase-III, Bhiwadi, Dist. Alwar 301019, Rajasthan & Chopanki Unit, Plot-A 280/281/282, 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 60840 / IEC 62067 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 the agreement, Brugg Kabel AG is prepared to assure back up support for successful operation for offered cable and accessories.

Markus Burger
CEO

Herbert Hofstaegger
Vice Director - Business Development

CH-5201 Brugg, Switzerland, February 15th, 2010

KAHRAMAA
Materials Department

FAX

To:	M/s. Kei Industries Ltd.	From:	TMP
Attention:	Mr. S. Tardundar	Fax:	0974-4845192/3
Country:	Qatar	Phone:	0974-4845125
Fax:	0091 11 268 11959	Ref.:	TM-Vendor/ 394408
Date:	15 Mar 2010	Email:	procurement@km.com.qa

Subject: Vendor Registration
Vendor No.: 394408

We are pleased to inform you that your application, for registration of your Company as a registered supplier with Kahramaa has been accepted. Your Vendor Registration Number is 394408.

You are, therefore, eligible for participating in our public or restricted tenders. Public Tenders will be advertised in any news media as well as in Kahramaa's website (www.km.com.qa). Tender document can be purchased from Kahramaa as per the advertisement. Enquiries will be faxed and/or emailed to you for our restricted tenders based on the items you have registered with Kahramaa.

However, please be informed that the registration is no guarantee, implied or otherwise, of any future participation in tenders, issuance of enquiry or award of work/supply (i.e. inclusion on a particular tender list or the purchase of your products). We are merely giving your company an equal opportunity to compete with other registered Vendors having the same range of products and services.

Should there be any changes in your company profile (i.e. name, address, contact numbers, inclusion/termination of any agency agreement, addition/deletion of any items etc.) must be notified to Kahramaa immediately.

Note: Kahramaa reserves the right to remove your name from the registered supplier list at its discretion and without notification.

Regards,
Ismail Al Haram
A/Head of Purchasing
Materials Department

Confidentiality Caution: This message is intended for the use of the individual or entity to which it is addressed and may contain information that is privileged and confidential. If you have received it in error, please notify the sender immediately by telephone.

STEEL AUTHORITY OF INDIA LIMITED
ROURKELA STEEL PLANT, ROURKELA
MATERIALS MANAGEMENT - P3O

Vendor Registration Certificate

REF.NO. MM/REGN/ 4598/15495/ 8822. 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 RSP for the items as listed below :

SL.NO	DESCRIPTION	PRODUCT CODE
1	PVC INSULATED & SHEATHED LT POWER CABLE	325/001/04
2	PVC INSULATED ARMOURED/UNARMOURED LT CABLES.	325/001/10
3	WELDING CABLE	325/001/15
4	CONTROL CABLES	325/002/01
5	INSTRUMENTATION CABLE	325/002/02
6	ELASTOMER INSULATING FLEXIBLE CABLE (1000	325/045/01

REGN. NO	VALIDITY	SUPPLIER CODE	STATUS OF FIRM	CATEGO
MM/REGN/004598/MD	03-AUG-15	66271/01	PRIVATE	

Note : i) We may not necessarily send all our enquiries for these category of items as and when we are 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.
vi) For Traders/Dealers the validity of the certificate is maximum for 3 Yrs, subject to submission of valid dealership certificate are every year to P3O section.

Head of P3O
RSP/SAIL/ROURKELA
(S. S. DAS)
AGM (MM)/P3O
SAIL, R.S.P. Rourkela

KEMA

08-1046

TYPE TEST CERTIFICATE OF COMPLETE TYPE TEST

OBJECT	Three-core power cable
TYPE	18/30 kV 3C×400SQMM CU/XLPE/SWA/PVC
Rated voltage, U0/U(Um) / Conductor cross-section	18/30(36) kV / 3x400 mm²
Conductor material / Insulation material	Cu / XLPE
MANUFACTURER	KEI Industries Limited, New Delhi, India
CLIENT	KEI Industries Limited, New Delhi, India
TESTED BY	KEMA HIGH-VOLTAGE LABORATORY, Arnhem, the Netherlands
DATE(S) OF TESTS	17 December 2007 until 16 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.

KEMA Nederland B.V.

KEMA Testing Services
Managing Director

Arnhem, 22 September 2008

KNPC

VENDORS & CONTRACTORS EVALUATION COMMITTEE

M/S KEI INDUSTRIES LTD., INDIA
SP-919/920, RIICO INDUSTRIAL AREA, PH III,
BHIWADI 301, ALWAR, RAJASTHAN,
INDIA

SUBJECT : VENDOR APPROVAL - ADDITIONAL PRODUCT CODE(S)

GENTLEMEN,

REFERENCE TO YOUR APPLICATION ON THE ABOVE SUBJECT, YOUR COMPANY IS APPROVED AS A VENDOR EFFECTIVE FOR THE SUPPLY OF THE FOLLOWING PRODUCTS FOR K.N.P.C REFINERIES:

PRODUCT		DESCRIPTION
73	10	CABLES (H.T.)
73	20	CABLES (L.T.)
73	30	CABLE, LIGHTING & WIRES
73	40	CABLE, INSTRUMENTS (INCLUDING THERMOCOUPLE WIRE & CABLE)
73	50	TELEPHONE & UTP CABLES

THE COMPANY (VENDOR) CODE ALLOCATED TO YOUR COMPANY IS.

PLEASE ENSURE TO QUOTE THIS CODE AND ABOVE FILE NO ON ALL YOUR FUTURE CORRESPONDENCE.

VERY TRULY YOURS,
CHAIRMAN - V.C.E.C.

NOTE: THIS LETTER SUPERSEDES OUR LETTER DATED

Page 1 of 1

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

Corporate Office:
K.R. Circle
Bangalore-560 001

OFFICIAL MEMORANDUM

Sub: Vendor approval ... U.G Cable - Reg

Ref: 1) Technical Committee Meeting held on 14-7-06.
2) Firm's Lr. dated 29/6/06

The firm namely M/s. KEI Industries Limited, Bhiwadi SP-920, RIICO, Industrial Area phase III Bhiwadi, 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 3.5 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 of cables.

Approval is therefore hereby accorded for M/s. KEI Industries Limited as approved vendors to BESCOM for supply of 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-2008. The prospective consumers who purchase the cables shall stand guarantee for the cables only. It is to be noted that normally the following sizes of cables are used in BESCOM.

-2-

a) 11 KV HT UG cables of size 3 x 95, 3 x 240 & 3 x 400 Sq.mm.
b) 1.1 KV LT UG cables of size 3 ½ x 120 Sq.mm, 3 ½ x 185 Sq.mm, 3 ½ x 240 Sq.mm and 3 ½ x 400 Sq.mm.

General Manager (Tech),
BESCOM

Copy to:-

The Chief General Manager (Elect), BMAZ/BRAZ/CTAZ for information.
All General Managers, (C O&M) Circles, BESCOM.
All Executive Engineers Elect., (C O&M) Divisions, BESCOM.
M/s. KEI Industries Limited, Bhiwadi SP-920, RIICO, Industries Area phase III Bhiwadi, District Alwar Rajasthan-301019

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

No.JDA/CE/Elect./2006/D- 914 Dated:

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/ICE/TROPO-DOUR /TORRENT/POLYCAB" is to be Read/Printed as "Approved make ICC/NICCO/GLOSTAR/ICE/TROPODOUR/TORRENT/POLYCAB/KEI".

The above order is brought into the force with immediate effect in the jurdiction 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.)

Micron Electricals

Govt. Licensed Class I Electrical Contractors & Engineers
Specialists in All Types of H.T & L.T Electrical Installations

Phone : 080-41513866 (30 Lines)
080-23364779 / 78, 23313708
Fax : 080-2331 2487
E-mail : micronelec@sify.com
micronelectricals@yahoodestkend.in
Website : www.micronelectricals.com

3RD FLOOR, 'SOUNDARYA', PARAMOUNT
No. 83, 5TH CROSS, MALLESWARAM CIRCLE
BANGALORE – 560 003

K.E.T. 70120140 C.S.T. 70120140 Dated : 11-10-88 TIN : 9 07708806207 License No. 20 (Class I)

REF. NO.: ME2801/2006 DATE : 02/09/2006

M/s. KEI INDUSTRIES LIMITED,
101/102, Vasta 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

HINDALCO

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,

(DEVESH JHA)
Manager-Project & Electrical

Bharat Aluminium Company Limited

Project Site: Jaora Nagar, KORBA – 495 684, Chhattisgarh State
Tel.: (07759) 244000, 242410 Fax: (07759) 244000 Ext. 2 E-mail: [illegible]
Member Office: 1st & 6th, Jolly Maker II, 224 Nariman Point, Mumbai – 400 021
Tel. (022) 2202 1421 / 22, +91 (022) 2204 2531, 2202 1421 Fax: [illegible] E-mail: [illegible]

balco

M/s.KEI Industries Ltd.
3/1 Kalibari Lane,Jadavpur,
Kolkata-700-032

3rd April'04

Attn : Mr.Alok Saha
Sub : Approval of KEI Make E.T Cables

Dear Sir,

In continuation to your letter reference no KEI/BALCO [illegible] dated 20th March'04 we give our consent for the above after scrutinizing the documents submitted by you.

This approval is valid only for the cables having distinct marking of length, at every one(1) meter interval along with size & no of cores.

Thanking You.
For Balco Aluminium Smelter Project

A.Shome

Eastern Coalfields Limited
Office of the Chief General Manager
Sonepur Bazari Area

E.CGM/SBA/MM/06/ Dated, 16.12.2006

To
The Chief General Manager(MM),
HQ, Nizam Sanchalaya,

Sub:- Performance report of 3 cores, 3.3 KV grade 120 sq.mm. PVC Cable manufactured by M/s.Kei, Industries Ltd., New Delhi.

Ref. Your letter No:KEL/CMD/HQ(MM)/SC/1814 dt.22.

Dear sir,

With reference to the above, the performance of the cable are given below.

The above cable is being used in pumping circuit as main cable.

The current drawn is 260A to 270A in 550V. It is observed that the armour got rusted after 18 months. After drawing 270A continuously, the cable does not get heated.

Performance is found to be satisfactory.

Yours faithfully,

Area Engineer(MM)
Sonepur Bazari Area

Headquarters
Chief Engineer
Pathankot Zone
Pathankot – 145001

27308/333/W 77 (E2/D) 11 Jun 2015

HQ CWE Pathankot

CWE Mamun

CWE Yol

CWE Jammu

M/s KEI Industries Ltd i.e. KEI Brand HT cable upto & incl 33 KV A.L.T & Control Cables

1. A photocopy of E-2 Wing (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 41016/CIMP/T-447/ Des-2 dated 30 Jun 2014 is fwd herewith for your further necessary action pl.

Encls: (As above)

(Jaiswal Kumar)
SE, MM(NF)
Dir(Design &Plg)
For Chief Engineer

Internal -

E-4 Sec
E-4 Sec } for info

Gujarat Narmada Valley Fertilizers Co. Ltd
(An ISO 14001 Company)

GNFC

Regd. Office
P.O. Narmadanagar–392 015,
Dist. Bharuch, Gujarat, India
Phone : (2642) 237471
Fax : (2642) 247122 / 247059
E-mail : hrd@gnfc.in

Date : 18/07/2006

M/s KEI Industries Ltd.
101-102, Vasta Shilp, Vasta Enclave
Jogmata Road, Andheri Pump House
Andheri (E), Mumbai – 400 093

Kind Attention : Mr. Vijay kalbaje, Dy.Manager, Mktg.

Dear sir,

Sub : Confirmation of Registration of your firm in our list of approved vendors.

Registration Items : 1.1 kV PVC/XLPE LT Power and Control Cables

With reference to above, we are pleased to inform that our Vendor Evaluation Committee consisting of Senior Executives of GNFC has examined the Profile of your organization and considering core strengths of the organization, GNFC management has approved to include your organization in the list of approved vendors for the above items.

As per GNFC Management's decision, all the enquiries of items having value above Rs. five lacs are being floated through e-Tendering only. Your above approval is subject to your creating necessary facilities / infrastructure like computer with internet, Digital Signature Certificate (DSC), etc. for e-Tendering. For DSC and support for registration and filling e-Tender, etc. you may avail services of (e)Code Solution (A division of GNFC) Team as under or our URA, M/s Amos Investments & Services, Ahmedabad (Mr. Samir Patel, Phone no. 079-64505050-1-2-3, e-mail : dsc@amosenterprise.com).

* Mr. Bhavin Patel - 9898589652 , * Mr. Kalpesh Sheth - 9898094419
* Mr. Rushil Bhatt - 9327084190, * Mr. Kayur Panchi - 9879279117
* Mr. Dharan Kantharia - 9426007087

Your organization will receive enquiries for above items as and when needs arises for the same at our end.

Thanking you.

Yours faithfully,
For G.N.F.C. Ltd.

M N Tirmak

MAHA VITARAN

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY
CENTRAL PURCHASE AGENCY
ISO 9001:2000 Certified
'Prakashgad', 1st Floor, Bandra (East), Mumbai - 51

SP/QC/Vendorregistration/9500
2006

Date:Tue Aug 29 18:02:39 IST

To,
KEI INDUSTRIES LTD.
SP-419/420,RIICO Industrial Area,Phase - III,,BHIWADI,301019
keiind@vsnl.com

Sub: Acceptance of the vendor registration and handing over the vendor kit there of.

Dear Sir,

Central Purchase Agency, MSEDCL is pleased to inform that, subsequent to your request for the registration and verification of the documents, your firm is hereby registered with the MSEDCL e-Tendering system participate in the e-Tendering process.

In view of the above you are requested to collect the vendor kit from the office of Executive Director (S) 1st Floor, Prakashgad, Bandra (E), Mumbai 51 on any Thursday except holiday.

This is a computer-generated letter and does not require signature.

Executive Engineer (Stores)
For Executive Director (Stores)

Tel: 26474211, 26472151, Fax: 26475429, Gram: COSORI
Mumbai

L&T Electrical & Automation
Projects

06th March, 2014

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s KEI Industries Limited is our approved vendor for supply of HT & LT Cables for MUMBAI MONORAIL PROJECT (MMRDA)

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

We are using their cables for our MUMBAI MONORAIL PROJECT and have found the performance satisfactory till date. The major cables supplied are listed below.

Item	Voltage Grade	Type	Quantity/Kms
1 Core x 400	22 kV (E)	2XCEFeY	30.380
3 Core x 300	22 kV (E)	2XCEWY	33.640
3 Core x 240	22 kV (E)	2XCEWY	40.420
3 Core x 95	22 kV (E)	2XCEWY	1.010
Power & fire Survival Cables	1.1 kV		89.000

The approximate lump sum values of the supplies of cables for mentioned was and Rs 33 Cr.

For
Larsen & Toubro Limited,

Purvika Satija
Manager - ESE Projects

Larsen & Toubro Limited, Electrical & Automation, Electrical Systems & Equipment
Registered Office:
Mumbai - 400 001, INDIA

BSES

BSES Limited

Generation Division :

Ref : BSES/OTPS/SNB/ [illegible]

Date : March 29, 2000

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s.KEI Industries Ltd. (formally known as Krishna Electrical Industries) having its registered office at D-90, Okhala Industrial Area, Phase-I, New Delhi - 100 020, supplied following FRLS cables against purchase order No.GEN.2264/GJB/92 dtd.11/02/1993 for our 2 x 250 MW Dahanu Thermal Power Station which was commissioned in the month of March, 1995 at Dahanu, Maharashtra with the assistance of IBRD Loan A/C No.3344-IN

POWER CABLES :
Single core upto 630 mm² conductor size multicore upto 300 mm² conductor size. — Total Qty :- 188.00 Kms

CONTROL CABLES :
Maximum size of 20 core x 2.5 mm² — Total Qty :- 431.00 Kms

INSTRUMENTATION CABLES :
Maximum of 12 Pair of 0.5 mm² & 1.5 mm² — Total Qty :- 251.00 Kms

TOTAL ORDER Qty. ========== — 870.00 Kms

The value of the above package was Rs.5.20 Crores (Rs.52 Millions Deemed Exports)

There are no complaints of above cables and are working satisfactory at our Dahanu Plant till date.

This letter have been issued as per the specific request of the party.

(S.K.Barda)
Dy.General Manager (O&M)

HEAD OFFICE : E-4 (ii) M.I.D.C. Area Marol, Andheri (E), Mumbai-400 093.

CERTIFICATE OF ENLISTMENT

ONGC

This is to certify that the enlistment of M/s. KEI Industries Limited, D-90, Okhla Industrial Area, Phase-I, New Delhi-110020, India has been extended as an approved Vendor for providing following Service / products:

REF Cables upto 33 kv, EPR cables upto 11 kv, Control & Instrumentation Cables, Armored Standard Cables, Rubber Cables, Thermocouple Extension Cables, Fire Resistant Cables, E.R.H. Cables - 66 kv/110 kv/132 kv 1200 kv, Fire survival cables.

This has been extended for a period of one years w.e.f. 16th April, 2014 and is in continuance with the terms elaborated in notification letter ref. G3930/CS/OS/112/2006 dt. July 1, 2014.

THE TATA HYDRO-ELECTRIC POWER SUPPLY COMPANY LIMITED
THE ANDHRA VALLEY POWER SUPPLY COMPANY LIMITED
THE TATA POWER COMPANY LIMITED

PERFORMANCE CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s KEI Industries Limited, D-90, Okhla Industrial Area, Phase-I, New Delhi 110 020 has supplied us FRLS Power, Control & Instrumentation Cables totalling around Rs.3.0 crores for our various projects as per our list enclosed.

The cables are put into use and so far performance of the cables is satisfactory and delivery is as per schedule.

(M.V.E. RAJAN)
ASST GENERAL MANAGER

Date : 13th May 1996

Place: Bombay

Registered Office : Bombay House, Homi Mody Street, MUMBAI-400 001.

KRUPP INDUSTRIES INDIA
formerly RUCKAUF VIDEF INDIA

TO WHOMSOEVER IT MAY CONCERN

This is to Certify that M/s KEI Industries Ltd., New Delhi, have supplied approx. 7482 PVC Power Cables against our Purchase order No BOHT/7897/93 Dt. 01.12.93 for Ujaywala TPS. Project. We further certify that the Cables supplied are in successful operation for over five years.

KRUPP INDUSTRIES INDIA LIMITED

SH. B. MAHAJAN
General Manager - Electrical

ER.R.VEDANTHAN,B.E.,F.I.E.,
CHIEF ENGINEER/THERMAL DESIGN
TAMIL NADU ELECTRICITY BOARD

6th FLOOR/WESTERN WING,
NPKRR MALIGAI,
800,ANNA SALAI/MADRAS.2.

TO WHOM SO EVER IT MAY CONCERN

This is to certify that the KEI Industries Ltd., New Delhi have supplied the cables as furnished below for Tamil Nadu Electricity Board.

1. P.O.No.50 dt.6.11.88 for value of Rs.98.50 Lakhs (FRLS PVC Control cables for ETPS,TTPS). 178 Kms. The unit commissioned on 31.3.91.

2. P.O.No.91 dt.19.5.89 for value of Rs.166.66 Lakhs 145.5 Kms (Zero Halogen FRLS Instrumentation cables for TTPS,NTPS). The unit commissioned on 31.3.91.

3. P.O.No.277 dt.7.2.90 for value of Rs.29 Lakhs 48 Kms (Zero Halogen FRLS Instrumentation Cable for NTPS).

4. P.O.No.34 dt.7.4.92 for value of Rs.566 Lakhs 908.5 Kms (NNTPP-FRLS Power Cables, FRLS Control Cables). The unit commissioned on October 1994.

5. P.O.No.386 dt.4.11.92 for value of Rs.69.15 Lakhs 37.5 Kms (Zero Halogen FRLS Instrumentation Cables for NNTPP). The unit commissioned on October 1994.

The cables are put into use and their performance is so far satisfactory.

(R.VEDANTHAN)
CHIEF ENGINEER/THERMAL DESIGN

27.10.94

Essar Projects Limited

ESSAR

TO WHOM SO EVER IT MAY CONCERN

THIS IS TO CERTIFY THAT M/S KEI INDUSTRIES LIMITED, D-90 OKHLA INDUSTRIAL AREA, PHASE-I, NEW DELHI-110020 HAS SUPPLIED US FRLS POWER AND CONTROL CABLES AGAINST P.O. NO. P0743723L/165 DT. 12.01.95 FOR OUR 515 MW POWER PROJECT AT HAZIRA AS PER TATA CONSULTING ENGINEER'S SPECIFICATIONS & INSPECTION.

THE DETAILS OF THE CABLES SUPPLIED IS AS FOLLOWS.

POWER CABLES

TOTAL QUANTITY SUPPLIED	:	159.00 KM
MAX. SIZE IN SINGLE CORE	:	1000 SQ MM
MAX. SIZE IN MULTICORE	:	500 SQ MM

CONTROL CABLES

TOTAL QUANTITY SUPPLIED	:	187.50 KM
MAX. SIZE IN 2.5 SQ MM	:	61 CORE

TOTAL VALUE OF THE CONTRACT WAS RS. 442.71 LACS

THE SUPPLIES WERE MADE ON TIME AND THE PERFORMANCE OF THE CABLES HAVE SO FAR BEEN SATISFACTORY.

THE UNIT WAS COMMISSIONED PROGRESSIVELY IN OPEN CYCLE MODE FROM DEC'96 AND FULLY OPERATIONAL IN COMBINED CYCLE FROM MAY'97.

FOR ESSAR PROJECTS LIMITED

(K.C.KOHLI) 3/12/1997
SR. VICE PRESIDENT

तार / TELEGRAMS: MAAM,DURGAPUR
दूरभाष / TELEPHONE : 520
टेलेक्स / TELEX : 0235-207

माइनिंग एण्ड मशीनरी कारपोरेशन लिमिटेड
MINING AND ALLIED MACHINERY CORPORATION LTD.
(भारत सरकार का उद्यम / A Govt. of India Enterprise)
दुर्गापुर / Durgapur-713210, पश्चिम बंगाल / Bardhman

संदर्भ सं. / Ref. No. ..... दिनांक / Date 20/8/98

TO WHOMSOEVER IT MAY CONCERN :

It is to certify that we have purchased from M/s. Krishna Electrical Industries, D-90, Okhla Industrial area, Phase-I, New Delhi- 110 020 approximately 880 R.M. of FRLS Armoured control cables from 1 core to 24 core, 2.5 mm² for Coal Handling Plant of Farakka Super Thermal Power Station, NTPC. The supplies have been made as per NTPC inspection and other engineering standards after successful type test and FRLS test.

For & on behalf of M & M C Ltd.
Dy. General Manager (Project).

कार्पोरेट कार्यालय : दुर्गापुर-713210, Regd. Office : Durgapur-713210, पश्चिम बंगाल : West Bengal

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Indian Oil Corporation Limited
Haldia Refinery
PO Haldia Oil Refinery
Dist- Midnapore, West Bengal-721607
Tel : [illegible]
Fax : 282141

Haldia Refinery

Dated February 8, 2008

To Whom It May Concern

This is to certify that KEI Industries Limited has supplied 6.6 KV grade (UE FRLS) 3c x 400sq.mm Aluminium Cable against PO HHRMSP18/6/178/08/03 dt 09.07.2007

Quantity 5.103 KM vide KEI's invoice no.72003790 & 72003802 DT 24.11.2007

Sanjay Sen
Chief Materials Manager (IC)
Haldia Refinery

CC to : Mr. Alok Saha

Dy. General Manager - Kanore India,
KEI Industries Limited,
3/1 Kalkari Lane, Flat#4
Jadavpur, Kolkata - 700 032,
West Bengal.

Regd. Office : [illegible]

ENGINEERS INDIA LIMITED
(A Govt of India Undertaking)

Procurement Development Department

Ref: [illegible] — [illegible] January, 2014

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

Subject: Revalidation of Enlistment with EIL

Dear Sirs,

We refer to your application on subject matter and are pleased to inform that your enlistment with EIL has been revalidated for the items as described below:

Item Description	Material / Range
- Cables – High Voltage – XLPE	Voltage grade: Upto 33KV(E)
- 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 919-920, 922, RIICO Industrial Area, Phase III, Bhiwadi, Distt. Alwar – 301 019
2) A280-284 RIICO Industrial Area, Chopanki, Bhiwadi Dist. Alwar – 301 019

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 EIL shall not guarantee any regular flow of enquiries.

In the event of direct / indirect orders for EIL 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 EIL 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 procedures for revalidation can be seen on our website: www.engineersindia.com

Thanking you.

Very truly yours,

[illegible]
Dy. General Manager
Procurement Development Department

मैकॉन
METALLURGICAL & ENGINEERING CONSULTANTS (INDIA) LTD.
A Government of India Enterprise
ISO 9001 Company

Ref.11.01.9181.47/V-1041/ [illegible] — 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.11.01.9181.47/V-1041 dt.[illegible]

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:

1. Cable – Instrumental / Screen / Signal Cables
2. Cable – LT Power & Control Cables
3. 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

(J. S. [illegible])
Chief Contracts Manager
CVDC

Ranchi - 834 002, Bihar, India, Phone : 0651-501002501216
Fax : (910-651-5022169, Telex : 0625-209/262/286 MECON IN Gram : MECON

HINDUSTAN PETROLEUM CORPORATION LIMITED

Ref : PUR/AS — 24-Nov-99

Regn No: 003590225

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 now been registered/upgraded 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

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. [illegible] **RCZ-404/Vol-V** **Dated:** 25/[illegible]

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 RGGVY/APDRP/[illegible] schemes subject to acceptance of type test certificates.

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

CC:

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

BHARAT PETROLEUM CORPORATION LTD.
(A Govt. of India Enterprise)

P & CS: 129521 — 21st January 2016

M/s. KEI Industries Ltd
Nirvan Corporate
7th Floor, Opp. Aghadi Nagar
Jijamata Road
Andheri 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. 129521)**, which must be referred to in all future correspondence.

Further it may be noted that:

1. Registration does not necessarily bind us for sending Enquiries/placement of Orders on you which is at the sole discretion of BPCL.
2. 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.
3. Any change in company constitution, Management / Organization structure/set up, location of the works, etc shall be immediately intimated to BPCL.
4. 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**

SUNIL ADVANI
SR. MANAGER (P & CS)

मंगलूर रिफाइनरी एण्ड पेट्रोकेमिकल्स लिमिटेड
MANGALORE REFINERY AND PETROCHEMICALS LIMITED

Date : 12.03.2014

TO WHOMSOEVER IT MAY CONCERN

This is to certify LOA No.: [illegible] dated [illegible] for ₹ [illegible] ([illegible]) was placed on M/s KEI Industries Limited, D-90, Okhla Industrial Area, Phase I, New Delhi-110020 for supply of the following sizes of HV Power Cables for Phase III Refinery Project of M/s MRPL, Mangalore.

Item Sl. No	Item Description	UOM	Quantity
1	HV POWER CABLE, 33KV(E), 1C, 185 SQ.MM, CU CONDUCTOR, XLPE INSULATED, FLAT STRIP ARMOURED, PVC OUTER SHEATH, FR TYPE	METERS	53000
2	HV POWER CABLE, 33KV(E), 1C, 300 SQ.MM, CU CONDUCTOR, XLPE INSULATED, FLAT STRIP ARMOURED, PVC OUTER SHEATH, FR TYPE	METERS	33500
3	HV POWER CABLE, 33KV(E), 1C, 630 SQ.MM, CU CONDUCTOR, XLPE INSULATED, FLAT STRIP ARMOURED, PVC OUTER SHEATH, FR TYPE	METERS	[illegible]
	TOTAL QUANTITY	METERS	94500

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.

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

For Mangalore Refinery and Petrochemicals Limited

B. [illegible]
General Manager (Project [illegible])

फ़र्टिलाइज़र्स एण्ड केमिकल्स ट्रावनकोर लिमिटेड
FACT — THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
UDYOGAMANDAL DIVISION, UDYOGAMANDAL, KOCHI, INDIA

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.3024 / 14-021 / 287 / 7177** dated 14-10-1995.

1. Signal Cables (max. size 12 Triad X 20 AWG individual and overall shielded cables) : **88.40 Kms.**
2. Thermocouple Extension Cables (max. size 12 Pair X 20 AWG – KX and BX type) : **24.10 Kms.**
3. Power Cables (max. size 3 core X 150 sqmm) : **11.40 Kms.**
4. Heat Resistant 2 core X 16 AWG Special Cable : **8.20 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

S. JAYACHANDRAN,
CHIEF ENGINEER,
ELECTRICAL & INSTRUMENTATION,
FACT – UDYOGAMANDAL DIVISION.

TATA CHEMICALS LIMITED
MITHAPUR, OKHAMANDAL, GUJARAT STATE

GRAM : TATACEM MITHAPUR
PHONE : [illegible]
FAX : [illegible]

MITHAPUR 361 345

OUR REF :

Date 02.05.96

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. Snam-progetti, Ipa & PDIL for ammonia and urea plant. M/s. KEI have supplied following cables and the plants have been successfully completed.

A. **Control cables, 175 kms.**
B. **Signal Cables, 95 kms.**
C. **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. Adyal)
Corporate Manager, Instrumentation

REGISTERED OFFICE : BOMBAY HOUSE, 24, HOMI MODY STREET, BOMBAY-400 001.

UGVCL

Uttar Gujarat Vij Company Ltd.

No.UGVCL/SP11/HT AB Cable/KEI/ 3 2 5 8 Date: 14-8-15

TO WHOM SO EVER IT MAY CONCERN
SUPPLY CERTIFICATE

This is to certify that M/s KEI Industries Ltd., Vadodara, 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/SP11/236/HT ABC/38 Date: 04/01/2011	3CX70mm2+70mm2 XLPE insulated HT Aerial Bunched Cable.	4	4	2011-12
2.	UGVCL/SP10 11/1/326/HT ABC/KEI/Nagaur/925 Date: 11/03/2011	3CX70mm2+70mm2 XLPE insulated HT Aerial Bunched Cable.	1	1	2011-12
3.	UGVCL/SP10 11/1/301/HT ABC/KEI/1462 Dtd:-01/12/2011	3CX70mm2+70mm2 XLPE insulated HT Aerial Bunched Cable.	17	17	2011-12
4.	UGVCL/SP10/HT/AB/ 11214 Date : 9.4.13	3CX70mm2+70mm2 XLPE insulated HT Aerial Bunched Cable.	23	23	2013-14
		3CX120mm2+70mm2 XLPE insulated HT Aerial Bunched Cable.	6	6	2013-14
5.	UGVCL/SP10/11/HT HT AB Cable/ 14-15/KEI/1029 Date:15.12.14.	3CX70mm2+70mm2 XLPE insulated HT Aerial Bunched Cable.	12	12	2014-15
		3CX120mm2+70mm2 XLPE insulated HT Aerial Bunched Cable.	3	3	2014-15

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

Yours faithfully,
For & on behalf of UGVCL, Mehsana

(S.P. Patel)
Chief Engineer (P&P)

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

Regd. & Corporate Office : Visnagar Road - Mehsana - 384 001 | North Gujarat |
Phone No: 02762-222080-81 Fax No: 02762-220534/226256

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 (MIAL) and have found the performance satisfactory.

Total PO value till date is INR 26,46,10,554.00 for supply of Cables & 2HRF Wires to MIAL.

For Larsen & Toubro Limited,

Authorised Signatory

TOYO ENGINEERING INDIA LIMITED

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s KEI Industries Limited having its office at D-90, Okhla Industrial Area, Phase-I, New Delhi has supplied approx. 118,500 R.M. of Hexagon Pair PILC Instrument Signal, Thermocouple Extension, Control, & Compensating Cables, vide its LO181 Loa for our TTL LPG Export/Import Facility Project at Haldia under Financial from M/s PEDO. The details of the order is as follows:

A) Thermocouple Signal Cables
Max. Size : 10 Triad x 1.5 Sq. mm.

B) Thermocouple Extension Cables
Max. Size : 10 Pair x 20 AWG (XI)

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

Delivery of the cables are as per the Purchase Schedule and the performance of the cables is found satisfactory.

For TOYO ENGINEERING INDIA LTD.

S. S. CHAVAN
PROJECT MANAGER

GUJARAT STATE FERTILIZERS & CHEMICALS LIMITED

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 KMs** OF PILLS BRAIDED CONTROL, INSTRUMENT SIGNAL AND COMPENSATING CABLES FOR OUR 1500 MTPD AMMONIA EXPANSION PROJECT, AT THE COST OF RS. 242 LACS VIDE OUR MAIN PURCHASE ORDER NO. GFCL/M/MAIN/PTM/(1) 175 DT. 21.05.1996 AND AMENDED THEREAFTER.

THE CABLES WERE DESIGNED, MANUFACTURED AND TESTED AS PER **LINMITECH SPECIFICATIONS**.

SO FAR THE PERFORMANCE OF THE CABLES IS FOUND TO BE SATISFACTORY.

FOR GSFC LTD

H.V. RACHHEYA
SR. MANAGER (Inst)

ISO 9002 CERTIFIED

SUZLON ENERGY LTD.

31/03/2005

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, MILINEX TAPPED PPR 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/D&DN/1250/08806/04-05	1Cx240 SQ.MM	7626	830,48,134/-
SEL/D&DN/1250/08806/04-05	1Cx120 SQ.MM	2562	
	1Cx 50 SQ.MM	12060	
	1Cx 185SQ.MM	1860	
	1Cx 10 SQ.MM	8184	
	1Cx 16 SQ.MM	8184	
	1Cx 1.5 SQ.MM	17808	
	1Cx 300 SQ.MM	3010	
SEL/D&DN/1250/08806/04-05	1Cx240 SQ.MM	4805	515,29,436/-
SEL/PWT/1250/00825/04-05	1Cx120 SQ.MM	14555	
	1Cx 50 SQ.MM	6280	
	1Cx185 SQ.MM	11720	
	2Cx 10 SQ.MM	5500	
	1Cx 10 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

Telephones 642 2211
642 2151
Telex : 011 - 78293 MSEB
011 - 78294 MSEB IN
FAX : 91 22 644 2709
91 22 640 1329
Gram : CONTROLB

Central Purchase Agency,
Prasarnagar,1st floor,
Station Road 0-9, Bandra(
MUMBAI - 400 051.

MP/MSEC/91/14

To 13436

12 NOV

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

Sub :- Request for issue of certificate of supplies.

Ref :- Your letter No. KEI/97/MSM 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
MP/T-6812/1992/ 2802e dtd. 29-7-95.	(i)L.T.PVC Cable 3.5C x 300 sq.mm	27 KM
	(ii)L.T.PVC Cable 3.5C x 185 mm2	58 KM

According the above said order is executed from 27-11-95 to 6-1-96 with value of Rs. 2,48,38,891/-. We have not received any adverse report so far. Hence performance of cable can be considered satisfactory.

Yours faithfully,

Executive Engineer (St.Kt)
For Technical Director (St.)

LARSEN & TOUBRO LIMITED

ENGINEERS

REPLY TO

Powai Works
Saki Vihar Road
P.O. Box 8901
Mumbai 400 072
8th Nov. 2000

& REPLY
PLEASE QUOTE

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 PILS POWER, CONTROL & INSTRUMENTATION CABLES for our 180MW IPP, DHLEEA COMBINED CYCLE POWER PLANT at a value of Rs. 35. 85 millions. The details are as follows.

P.O.NO.	MAX. SIZE	QTY - KM.
COPPER PILS POWER CABLES		
PO7X/580308/NRK/DSC DT.20.11.97	3.5C x 300 SQ.MM	
PO7X/580032/NRK/DSC DT.28.08.97	1C x 400 SQ.MM	
PO7X/580046/NRK/DSC DT.07.12.98	1C x 300 SQ.MM	66. 047
COPPER PILS CONTROL CABLES		
PO7X/585561/JF/DSC DT.08.12.97	37C x 1. 5 SQ.MM	
PO7X/589056/JF/DSC DT.24.06.98	24C x 1. 5 SQ.MM	76. 140
COPPER PILS SIGNAL CABLES		
PO7X/590031/JF/DSC DT.16.10.98	12T x 1. 5 SQ.MM	
PO7X/590033/JF/DSC DT.31.08.98	12P x 16AWG (XI)	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 , OTPD , ENGG.

PUNJ LLOYD LTD

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/EIN007/040411 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 BAHA
Sr. Manager-Materials

LARSEN & TOUBRO LIMITED

ENGINEERS

REPLY PLEASE QUOTE: [illegible]

To,
M/s. KEI Industries Ltd.,
D-90, Okhla Industrial Area, Phase-I,
NEW DELHI - 110 020

Kind Attn.: Mr. A.K.CHABRA, Manager-Marketing

Dear Sir,

Sub: Registration as an approved Vendor

With reference to the above, we are pleased to inform you that you are enlisted as one of approved Vendors with our [illegible] for the following products.

1. PVC/XLPE POWER CABLES – UPTO 1.1 KV, [illegible] (SINGLE CORE), [illegible] (MULTI CORE)
2. PVC CONTROL CABLES – UPTO 1.1 KV, 0.5, 1.5 & 2.5 SQMM, UPTO 61 CORE
3. INSTRUMENTATION CABLES – 1.1 KV, [illegible] SQMM
4. PVC/PE/THERMOCOUPLE EXTENSION/COMPENSATION CABLES – 1.1 KV, [illegible]

[illegible]

Yours faithfully,
For LARSEN & TOUBRO LIMITED,

T.S.PRASAD
SENIOR MANAGER (PROCUREMENT)

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/SUPEC- 3490
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/4033/001, 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:-

Sn.	Code	Item/Service description
1.	EE/042	1.1 KV grade power cables
2.	EE/045	1.1 KV grade control cables
3.	EE/046	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.)

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 R027** for following packages.

a) HT XPLE CABLES
b) LT XLPE POWER CABLE
c) LT PVC POWER CABLE
d) LT PVC CONTROL CABLE
e) SCREENED CONTROL CABLES
f) LT XLPE CONTROL CABLE
g) LT HRPVC POWER CABLES
h) LT HRPVC CONTROL CABLES
i) LT FIRE SURVIVAL CABLES
j) BARE GROUND CONDUCTOR FOR BELOW GRD EARTHING
k) 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

To,

M/s KEI Industries Ltd.,
New Delhi

K.A.: Sh. Munishwar Gaur

Dear Sir,

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 TBG/BHEL under the permanent Code 'RB014' **have been approved** for enhancement of rating upto 220 kV for EHV cable under the same permanent code.

Regards,

Abhinav Gupta
Sr. Engineer (TBMM/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.: 0120-4748460, 9818449xxx

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

No virus found in this message.
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Version: 2013.0.3480 / Virus Database: 3955/7648 - Release Date: 06/09/14
Internal Virus Database is out of date.

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

CHEMTEX ENGINEERING OF INDIA LTD.

Our Ref.: VL / 97 / 2[illegible] 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.

General Manager (Procurement)

MAHATRANSCO

MAHARASHTRA STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

Ref No. MSETCL/CO/Prj.&Des./[illegible] - 6986 Date: 26 MAY 2015

To,
SUYOG URJA PVT. LTD.
8, 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 [illegible] for 30 MW Wind Power Project At-Anjanwadi, Dist-Aurangabad.

Ref.: 1) Your Letter No.: [illegible] Dtd-29.04.2015 received on 05.05.2015 in 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 required 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/PRJ.&DES./[illegible] dtd-24.02.2015 for LT PVC/ XLPE Insulated FRLS Type Cables (KEI make) has been verified. The same are 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.

Page 1 of 5

ABB

Ref.: [illegible] Dated : 1997-08-02

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/[illegible] 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

प्रोजेक्ट्स एण्ड डेवलपमेंट इण्डिया लिमिटेड
(भारत सरकार का उपक्रम)
PROJECTS & DEVELOPMENT INDIA LIMITED
(A GOVT. OF INDIA UNDERTAKING)
PDIL BHAWAN, A-14, SECTOR-1, NOIDA-201 301
DISTT. GAUTAM BUDH NAGAR, (U.P.) INDIA

PNM/PEDM/ F0462
Date: 01.10.2008

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 PDIL as an approved vendor for the item(s) described below:

ITEM CODE	ITEM DESCRIPTION	MATERIAL / RANGE
[illegible]	INSTRUMENT POWER & CONTROL CABLES	
[illegible]	EXTENSION & COMPENSATING CABLES	
[illegible]	HT POWER CABLE	Upto 33 KV
[illegible]	LT POWER CABLES	
[illegible]	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 to 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 PDIL.

This registration is valid till 30.09.2011. 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,

Chief Manager (Materials)

Regd. Office : PDIL Bhawan, A-14, Sector-1, Noida-201301

Office of the Chief Engineer (Elec.), P.W.D. Dept., Govt. of Maharashtra, Mumbai

To,
M/s. KEI Industries Ltd.
101/102/103, Vasta Shilp, Vasta Enclave, Andheri Pump House, Ajanta Road, Andheri (E), Mumbai 400 093

Sub: Approval to use material on works carried out by Government of Maharashtra.

[illegible]

Name of material: " Winsch Cables "

[illegible]

Brand Name: "KEI"

Technical Specification of the Materials:

Sr. No.	Name of Product	Validity
1	PVC insulated Wires & Cables for working voltage upto and including 1100V	Upto [illegible]
2	Crosslinked polyethylene insulated PVC sheathed cables - Part 1 for working voltage upto and including 1100V	
3	Crosslinked polyethylene insulated PVC sheathed cables - Part 2 for working voltage from 3.3 kV upto and including 33 kV	

[illegible]

Yours faithfully,
(S.A. [illegible])
Chief Engineer (Elec.)
P.W. Deptt., MUMBAI

Copy forwarded to Superintending Engineer (Regional Elec. Circle) MUMBAI / PUNE / AURANGABAD / NAGPUR / AMRAVATI / NASHIK for information.

BHARAT HEAVY ELECTRICALS LIMITED
(A Government of India Undertaking)
Boiler Auxiliaries Plant, Ranipet - 632406, INDIA

Phone : 04172 - 284428, 284433
Fax : 04172-[illegible]
Email : [illegible]@bhelrpt.co.in

PURCHASE DEPARTMENT

VENDOR REGISTRATION CERTIFICATE

RAD : PURCHASE

DATE : 14/12/[illegible]

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

Dear Sir,

We are pleased to inform you that your firm has been provisionally registered with Vendor Code [illegible] for the supply of the following products / items, subject to the conditions stipulated below:

DESCRIPTION OF ITEM	SPECIFICATION	VENDOR CODE
CABLES LT POWER - AL		[illegible]
CABLES -LT CONTROL		[illegible]

Please indicate your vendor code in all future correspondence.
Thanking You,
for BHEL, RANIPET

MANAGER / PURCHASE
SUPPLIER DEVELOPMENT CELL

Condition :
1) Please note that this registration does not guarantee for award of any contract/order for the supply of above items.
2) This registration does not confer on the Vendor any right to demand mailing of enquiries

---

THE DURGAPUR PROJECTS LTD.
(A Government of West Bengal Undertaking)
Office of the Sr. Manager (T & D), Durgapur - 713[illegible].
Regd. Office : Administrative Building, Durgapur-713201. Tele Fax : [illegible]

Ref. No. [illegible]

Dated [illegible]

F A X

To
M/s. KEI Industries Ltd.,
[illegible]
Kolkata - 700 [illegible]

Attn: Mr. Aloke Saha, G. M. Mktg.

Sub: L.T.Power and Control Cables.

Dear Sirs,

We have gone through your Co's Profile where several documents pertaining to manufacture of L.T. Power and Control Cables stress the credibility of enlistment of "KEI" make Cables in our Vendors' List.

Thanking you,

Yours faithfully,
([illegible])
Sr.Manager (Elect.), O&M, Dtn.

Kolkata Office : 1, Shakespear Sarani, Kolkata - 700 071. Tele Fax : 033-[illegible]

AVANT-GARDE ENGINEERS AND CONSULTANTS (P) LTD.
REGD. OFFICE : [illegible] CHENNAI
TEL : [illegible] FAX : [illegible]
E-mail : [illegible] Web Site : [illegible]

[illegible]

M/s. KEI Industries Limited
D-90, Okhla Industrial Area
NEW DELHI - 110 020

Kind Attn: Mr. S.K. Chadha
GM - Marketing

Dear Sir,

Subject : Registering with AGEC as approved vendor
Ref : Your Application for Enlistment as Vendors

We are pleased to inform you that your application for enlistment of vendor has been processed and found acceptable. We declare that You are one of our Approved Vendors and we register your name as a vendor in our web site www.[illegible]

Presently your approval is for

1. Design, Manufacture and Supply of [illegible] Grade XLPE/PVC power, Control, Instrumentation, Signal & Thermocouple extension cables.

[illegible]

For AVANT-GARDE ENGINEERS & CONSULTANTS (P) LTD.

(S.[illegible]) J. MURALEEDHARAN

PRASAR BHARATI
(INDIA'S PUBLIC SERVICE BROADCASTER)
Office of the Superintending Engineer (Training)
Civil Construction Wing : All India Radio
[illegible]

No. [illegible]
M/s KEI Industries,
D-90, Okhla Industrial Area, Phase-I,
New Delhi-110020

Subject:- Approval for " M/s KEI Industries, manufacturer of Wires from 0.5 sq. mm to 220 KV cable.

Sir,

[illegible]

[illegible]

(R.K. [illegible])
Executive Engineer (Trg.)

Copy to:

[illegible]

Executive Engineer (Trg.)

BOKARO

N. K. GOYAL
General Manager (Projects)

Date: 1[illegible] November'09

Sub: Acceptance of KEI make cable for use in BSL expansion programme

Ref: 1. Your letter no. KEI/KOL/AS/08/2008 [illegible] dated 23.09.09
2. [illegible] MECON, dated [illegible]
3. [illegible] to BSL, dated [illegible]

This has reference to your letter regarding approval of additional vendor for supply of HT/LT Cables in Expansion programme of BSL.

BSL/MECON have examined your request. As KEI is duly registered with MECON & accepted by SAIL ([illegible]) also, it is to inform you that KEI is accepted by BSL as additional vendor for supply of HT/LT Cables for projects in expansion programme.

Thanking you.

(N.K. Goyal)
GM (P) Elect. & Mech.

To,
Alok Saha
DGM (Marketing)
KEI Industries Ltd.
Kolkata

[illegible]

Division [illegible], Vidhyut Bhavan, [illegible] Floor,
Aquem Margao-Goa

Tel/Fax :- 0832-[illegible]
No. EE-IV/O&M/Tech-Tender [illegible]
By Regd. A.D / Hand delivery

Dated:- [illegible]

ORDER

To,
M/s KEI Industries Ltd.,
101/102/103, Vasta Shilp, Vasta Enclave,
Andheri Pump House, Ajanta 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.

Ref:- (i) Our letter of acceptance bearing ref. No. EE-IV/O&M/Tech Tender-05(11)/[illegible] dt. [illegible]
(ii) Performance guarantee submitted vide letter dtd. [illegible]/12/2011

Sir,

In continuation to our letter of acceptance referred above, you are requested to supply 40Kms of 33KV, 3 core, 400 sq.mm. armoured Aluminium XLPE cable type A2XWY to the Sub-Divisional Engineer, Sub-Division VI (O&M), Margao as per the schedule stated in the NIT by 09/07/2012.

You are also requested to attend this office to complete formal agreement within 15 days from date of issue of this letter.

Yours faithfully,
(Peter Fernandes)
Executive Engineer-IV, O&M, Margao
For and on behalf of Governor of Goa

The West Bengal Power Development Corporation Limited
(A Government of West Bengal Undertaking)
Registered & Corporate Office :
[illegible]

Ref. No. : PDC/Corp/[illegible]/Vendor/

Date : [illegible]

M/s BHEL
Project Management Group,
1[illegible] floor, Hindusthan Times House,
Kasturba Gandhi Marg,
New Delhi - 110 001

Attn: Mr. S. S. Singh, AGM (PMG)

Sub: Approval of vendor for Bought Out Electrical Items for Santaldih Thermal Power Station Extn. Unit - [illegible] MW)

Ref: BHEL Letter no. [illegible]

Dear Sir,

With reference to the letter no. [illegible] we hereby accord our approval in line with decision arrived in the high level meeting held at New Delhi on [illegible] in respect of different additional Sub Vendor for the following package as detailed below :-

Sl. no.	Package	Name of Vendor Approved by WBPDCL
1.	LT XLPE FRLS Power Cables	• M/s Industrial Cables (India) Ltd. • M/s Hindusthan Vidyut Products Ltd. • M/s KEI Industries Ltd.

You are requested to please take further necessary action from your end.

Thanking you,

Yours faithfully,
Sd/-
([illegible])
Executive Director (Tech)

Memo. No. PDC/Corp/[illegible]/Vendor/

Date : [illegible]

Copy to:
1. The General Manager, STPS, WBPDCL, Purulia, WB.
2. Mr. [illegible], Dy. General Manager, Corporate, WBPDCL, Kolkata
3. Mr. [illegible], Project Manager, [illegible], Kolkata
4. Mr. [illegible], Sr. DGM (PSG), [illegible], New Delhi-110019

Executive Director (Technical)

[illegible]

MAHADISCOM

Maharashtra State Electricity Distribution Co. Ltd
APDRP Section "Prakashgad" 3rd Floor, Bandra (East)
Mumbai - 400 051
Tel : (0) 26474211
Fax : (022) 26472868 E-Mail: ce_apdrp@yahoo.com
Website: www.mahadiscom.

o.CE/APDRP/ 30050 **Date: 02-09-2006**

o

he Chief Engineer,
I.S.E.D.C.L., Amravati Zone, Akola/Aurangabad Zone, Aurangabad/
olhapur 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 c kV, 22 kV, 33 kV XLPE Cables.

Chief Engineer (APDRP)

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

Ref.No.: 11/74/91/CVO/SMR-TRP/1991 Date: 18-OCT-12

M/s. KEI INDUSTRIES LTD
33, Dr. Sundari Moses Avenue (Old Road)
Near Park Circus Ladies Park
KOLKATA-700014
Tel.033-23668857/58 FAX-08033861158

Sub : Vendor Registration with MECON (VAMOS COMPLIANT)

Ref : Your letter No. KEI/KOLKATA/CO/VS/SB/12-13 dated 01-JUL-12

Dear Sirs,

Kindly refer to your above mentioned letter. We are pleased to inform you that your company (EMAIL name) is enlisted in our Approved Vendor List for the following subject to your valid 30-06-FEB-13. This is pursuant to our earlier letter of even no. dated 30/04/2014.

ELECTRICAL (REPLACEMENT OF EXISTING CABLES) OF POWER INCLUDING CONTROL CABLES & CABLE SUPPLIES

1 CABLE - EHT POWER CABLE (Upto 132 kV) - Aluminium
2 CABLE - FLEXIBLE CABLE (As per IS 694 Part 2 & 3 of 2010 / IS-4640 Applied
3 CABLE - HT POWER CABLE (Upto 66 kV Aluminium
4 CABLE - WATER NON-PRESSURE UNARMORED CABLE
5 CABLE - LT CONTROL CABLE
6 CABLE - LT POWER CABLE
7 CABLE - TELECOMMUNICATION CABLE (EPBC, EPZ, FCC)
8 WIRES - DOMESTIC WIRES

MECON CONTRACTORS :
1 MECON CONTRACTORS (Project Execution)

Please note that the validity of the above mentioned items shall be subject to satisfactory delivery and quality of above mentioned items when ordered for various projects.

Further, kindly please inform us the contact person / Supervisor / Location of works/site office, Management Organ/Director etc. to be included in our mailing list along with recent discount rate for necessary action. Failing which our enquiries may not reach you and also your enlistment may stand lapsed to be cancelled. Kindly keep sending your annual report every year. Your performance shall be periodically reviewed by us for continuation of your enlistment with MECON.

The above enlistment is subject to satisfactory performance of tender/quotations, whichever the case due to MECON/Clients. It is your responsibility to apply for renewal of your registration at least 2 months in advance of expiry of the validity period.

Thanking you.

Yours faithfully
For MECON LIMITED

(Arunabha Ray, DGM (SVCC))
email : dmsvcc@mecon-ltd.co.in
Fax 091-3361108 Tel 033-3461004

Valid till 15-FEB-17

(c) Delhi, New Delhi | (ne) Mumbai | Western Railway | (ne) Chennai | Pune, Bangalore

TAKREER
We Believe Right

FACSIMILE MESSAGE

To : M/s. Falcon Engineering & Contracting Services - L.L.C. Fax No.: 3348042
Attn.: Mr. Nabil Ali Al – Managing Director Abu Dhabi

From : Procurement Support Department Manager Fax No.: 6027142

Abu Dhabi Oil Refining Company (ADNOC)
P.O. Box 33817 / Tel: 6010 5000 / Abu Dhabi, U.A.E

Ref. No. : PDS/SUPP/5 - 11/2010 Date : 21 APR 2011
Subject : RECERTIFICATION & PRE-QUALIFICATION STATUS

Reference to the Discussion of your Principal M/s. KEI Industries Ltd. - India, submitted by you as a Manufacturer. Please be informed that based on the evaluation, the above principal has been included in TAKREER records as a possible source for supply of the following products:

- L.V. Power & Control Cables
- Cables - Instrument & Communication
- M.V./H.V. Cables - Without Lead Sheath

Please note that at the date of release of enquiries, a further short listing takes place based on individual interest at that time and the specifics of material / equipment in question as the need may be.

You are advised to quote your Principal's Registration No. 90001 in all future correspondence.

Regards,

Manager Procurement Support

If you do not receive all the pages, please call Telephone : (9111) 6027470 No. of pages to follow:

Confidentiality Notice: This fax is Confidential. If you are not the intended recipient, please notify us immediately. You should not copy the Fax or use it for any purpose or disclose its contents to any other person. Thank you.

ABB

GE 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 4000389 DT. 02ND MAY 2007 & AMENDMENTS THEREOF.

(1) 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.

(2) 1.1KV GRADE XLPE INSULATED COPPER CONDUTOR - 65KMS OF ASSORTERED 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
SUPPLYING SYSTEMS
CENTURY PLAZA
2nd Floor, 561-562, Mount Road,
Kodambakkam, Chennai - 600 018.

Tele: 23018662

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

12 Nov 2003

11/50/03/Q&E/E2 Des-1

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

USE OF ISI MARKED "ISO" BRAND ELECTRICAL CABLES IN DEFENCE WORKS

1. Please refer your letter No. KEI/ADR/03/SES/02 dated 06 Nov 03 and earlier correspondence on the subject.

2. You firm had applied for use of "ISI" 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 & C, 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, singlecore/core, sheathed and unsheathed, for working voltages up to and including 1100V, with copper & aluminium conductor 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 not 01 but excluding cables for use in mines, as per IS: 7098/ (P1 1)-1988.

(d) PVC insulated (HS) 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 (Part2)- 1988.

3. It is seen that all above mentioned products are ISI approved & ISI marked and the firm is ISO 9001:2000 Certified Company, hence these products can be incorporated in Defence Works, on merits.

4. You may approach Zonal CEs / lower formations with your manufacturer list accordingly.

Sd/xxx (Ghosh)
Brigadier (Tendering)
for Engineer-in-Chief

Copy to:-

Chief Engineer - For and information and necessary action please.
HQ Northern Comd
HQ Western Comd
HQ Central Comd
HQ Eastern Comd
HQ Southern Comd

All CEs of Engineers Zone - For information and necessary action please.

Telephone: 2509441/81 Extn 2647/23

Controllerate of Procurement
Material Organisation
Ghatkopar West
Mumbai 400 086

Date 29 AUG 03

MOP/VN/DEG-8/Corr

M/s. KEI INDUSTRIES LTD
Vasthu Smriti, Vasthu Shilp,
101-102, Bandhan Plaza House,
Andheri (E)
MUMBAI - 400 093

Sir,

VENDORS REGISTRATION

1. 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.

2. 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 requirement arises.

Yours faithfully,

CBO
FIN&O II
A CBO (VB)
I CBO (MB)

POWER GRID CORPORATION OF INDIA LIMITED

Ref: CO/A&D/VA/Instrumentation Cable Date: 20.08.2011

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

Kind Attention: Shri. R. 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-918,920,922 RIICO Industrial Area, Phase-III, Bhiwadi, Dist. Alwar, Rajasthan-301019. However, following have to be ensured by you.

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

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

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

Thanking you,

Yours truly,

(Mahendra Sonawat)
CM(QA & I)

CC: CM (ID – Gurgaon)

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. [illegible] dated [illegible]
Registration / Certificate Serial No. DQ/VS/290/500
Subject: [illegible]
Our registration is granted to M/s KEI Industries Ltd, New Delhi
Valid Registration / Certificate is renewed/given for manufacture/ supply of the following
[illegible] is hereby renewed for a further period of [illegible]

S. No.	Description	DRL No.	S.D.N. Cat. No.	Specification
	[illegible]			

[illegible]

Director of Quality Assurance (Naval)

UTTAR HARYANA BIJLI VITRAN NIGAM LIMITED
(A Government of Haryana Undertaking)
Registered Office: C-16, Vidyut Sadan, Sector-6, Panchkula, Haryana
Office of CGM/PD&C, UHBVN, Panchkula

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

Memo No.Ch- 47 [illegible] Dated- 07/07/2015

Subject - Extension of empanelment up to 31.3.2016 as approved vendor of the Nigam for supply of material against tender/works during 2015-16 – Power / Distribution Transformers manufacturers / Cables / [illegible]

This has reference to your letter No. ______ 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:-

1. 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.
2. 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.
3. 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 should should be certified for its calibration.

This is for your information please.

Chief General Manager/PD&C
UHBVN, Panchkula

CC:-
1. SPS to Director Projects, UHBVNL, Panchkula for information of Director Projects, UHBVNL, Please.
2. SPS to Director Projects, DHBVNL, Hisar for information of Director Projects, DHBVNL, Please.
3. CE/OP UHBVN Panchkula & Rohtak
4. CE/MM UHBVN Panchkula
5. CE/Commercial UHBVN Panchkula
6. CE/PD&C DHBVN Hisar
7. All SEs / OP UHBVN Panchkula
8. All Xen's under CGM/PD&C, UHBVN, Panchkula
9. Xen/ IT UHBVN, Panchkula for updating the list of empanelment firms on Nigam's [illegible]

JHARKHAND STATE ELECTRICITY BOARD
Engineering Building, Dhurwa, Ranchi-4
Fax # 0651-2400758

Dated: [illegible]

From
S.N. Prasad
Chief Engineer (S&P)

To
M/s KEI Industries Limited,
31, Dr. Sundari Mohan Avenue
Kolkata-700 014

KEI INDUSTRIES LIMITED [stamp]

Sub: Letter of Award for supply of [illegible] marked 33 kV, 3 Core, 400 sqmm. XLPE Cable.

[illegible]

Dear Sirs,

With reference to your above offer against aforesaid NIT and subsequent correspondences, the Board is pleased to place order with you for supply of [illegible] marked 33 kV, 3 Core, 400 sqmm. XLPE Cable as per terms and conditions of the above NIT and as enumerated below:

1. Details of materials: [illegible] marked 33 kV, 3 Core, 400 sqmm. XLPE Cable.
2. Quantity: [illegible]
3. Ex-Works unit rate: [illegible]
4. Insurance: Insurance will be arranged by the Board.
5. Payment: Payment of the value of the materials will be made by Dy. Director of [illegible]
6. Delivery: The materials are to be delivered within [illegible] days of issue of P.O. However, early delivery will be appreciated.
7. Penalty: The above delivery shall be governed under penalty clause of the above NIT.
8. Security & Agreement: You shall have to deposit security @ 2% (Two percent) of the ordered value [illegible]

You are requested to please confirm your acceptance within three days and execute [illegible]

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.

Kindly acknowledge receipt of this letter.

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

NUMALIGARH REFINERY LIMITED
A GOVERNMENT OF INDIA UNDERTAKING
NRL

Date: [illegible]

To Whom It May Concern

This is to certify that KEI Industries Limited has supplied 11 KV (E) grade 3core x 240 sq. mm copper Cable against PO No. [illegible] dt. [illegible]

Quantity 4.00 KM vide KEI's Invoice no [illegible]

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

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

CC to: Mr. Alok Saha.

Dy. General Manager - Eastern India,
KEI Industries Limited,
2/1 Kalibari Lane, Flat#[illegible]
Jadavpur, Kolkata - 700 032,
West Bengal.

CC to: Mr. Kaushik Moitra
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-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:

a) HT XPLE CABLES
b) LT XLPE POWER CABLE
c) LT PVC POWER CABLE
d) LT PVC CONTROL CABLE
e) SCREENED CONTROL CABLES
f) LT XLPE CONTROL CABLE
g) LT HRPVC POWER CABLES
h) LT HRPVC CONTROL CABLES
i) LT FIRE SURVIVAL CABLES
j) BARE GROUND CONDUCTOR FOR BELOW GRD EARTHING
k) 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
[illegible], Chowringhee Square, Kolkata - 700 069
Regd. Office : CESC HOUSE, Chowringhee Sq., Kolkata - 700 001

PUR/[illegible] 19th May, 2011

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

Attn. : Mr. Alok 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/CESC/11-12/Q-079 dated 6th May, 2011, and subsequent negotiations through your email reference: KEI-KOL/CESC/[illegible]/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 landed price (Rs. Per Km)
	1.1 KV grade, XLPE insulated, stranded aluminium conductor cable, inner sheath of lapped plastic tape, single layer of galvanised steel strip armoured, PVC overall sheathed, conforming to IS:7098 (Part I), 1988 with latest amendments		
1.	3½ core x 35 sq.mm	50	1,04,000/-
2.	3½ core x 70 sq.mm	45	2,03,000/-
3.	3½ core x 150 sq. mm	30	3,88,000/-
4.	3½ core x 240 sq. mm	110	6,08,000/-
5.	4 core x 400 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

स्टील अथॉरिटी ऑफ इंडिया लि. - इस्को इस्पात संयंत्र
STEEL AUTHORITY OF INDIA LTD. - IISCO STEEL PLANT
(A Government of India Enterprise)
PLANT ENGINEERING & DEVELOPMENT DIVISION
[illegible]

Ref. No.: [illegible] Date: [illegible]

To
Shri [illegible]
General Manager [illegible]
[illegible] Engg. Co. Ltd.
[illegible]
Kolkata 700 001

FAX NO. 033 - 2248 3248/3016

Dear Sir,

Sub: 2.5 Mtpa New Steel [illegible] Expansion of ISP.
Approval of Additional Vendor for [illegible] Product Plant (Package No. 05)

This has reference to your letter no. [illegible] regarding approval of additional vendor for supply of H.T. Power Cable in By Product Plant.

We have examined your request and inform you that ISP accepts M/s KEI Industries Ltd. for supply of H.T. Power Cable in By Product Plant [illegible]

This approval does not relieve M/s [illegible] Engg. Co. Ltd. from their responsibility of achieving [illegible]

Thanking you,

Yours faithfully,
For & on behalf of IISCO STEEL PLANT
[illegible]

cc: [illegible]
FAX NO. 033 - 2248 3248/3016
- This refers to your fax dtd. 27.08.06 on the above subject.

Tele: 25673335

Headquarters
Chief Engineer (AF) WAC
Pin Code -908636
C/O 56 APO

40048/ [illegible] Jan 2008

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

APPROVAL OF PRODUCT

1. 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.

2. You may use of this Product in your area on trial basis.

3. The feed back of their Performance report of the product should be intimated to this HQ for further incorporation of product in our area.

4. This should be disseminated up to GE level.

5. 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 its 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.

(A K Gupta)
SE
Dir E/M
for Chief Engineer

Copy to :-

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

Tele: 011-2681840, 2681842
26815558, 26815559

Ref your letter No Nil dt 18 Dec 2007
You are requested to contact the various CWE's/GE under our area for uses of your product in Defence works.

---

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 -1,
NEW DELHI –110020.

KIND ATTENTION : MR KAPIL KUMAR PURI

Sub:- Approval For Cables and Wires of KEI Brand

Dear Sir,

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

1. HT cable upto 33KV
2. Low tension Copper/Aluminium Conductor PVC & XLPE Power Cables
3. Low Tension PVC & XLPE Control Cables.
4. Flexible& House Wires (Single & Multicore)
5. Fire Survival ,Zero Halogen Cables.
6. FRLS/FR/HR/HFFR/FRLSH/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. L

PERFORMANCE CERTIFICATE

(TO WHOM SO EVER IT MAY CONCERN)

This is to certify that M/s. KEI industries Ltd., 3-6-760, C-1, Suyama Sou tments, Street No. 13, Himayathnagar, Hyderabad – 29 have supp . 3C x 400 Sq.mm XLPE Cable against the following purchase orders places office. The supplies were completed in time and the cables are che ged.

	P.O. No. & Date	Qty. Ordered	Qty. Supplied
	F.O.No. CGM/P&MM/E-21/STN-48/ PM-2270/07. Dt:27-03-2007	2.0 KM	2.037 KM
	F.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

for CHIEF GENERAL MANAGER/P&

SC INDUSTRIAL PLANT SERVICES PRIVATE LIMITED

White House, 2nd Floor

To Whom It May Concern

This is to certify that KEI Industries Limited has supplied 7.302 Kms of 3 Core X 185 sqm. 6.35/11 kV (E) Grade Armoured Heavy Duty XLPE Insulated Stranded Aluminium Conductor Cable for our WBPDCL, Sagardighi TPS (2X300 MW, Unit # 1 & 2) Ash Handling Plant & Ash Water Recovery Plant against our P.O. Nos. 25F06/E/240/3002/C dt. 14.03.07 and 25F06/E/240E/9001/C dated 14.03.07 vide Service Nos. 70000860 to 864 dt. 09.06.2007.

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

SC INDUSTRIAL PLANT SERVICES (P) LTD.

S. SARDAR

SR. GENERAL MANAGER (ELECTRICAL)

Date: January 30, 2008

cc. KEI/KOLKATA : Attn. MR. ALOK SAHA.

JSW Steel Limited

Salem Works

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. 06/5/72/900086 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.

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

झारखंड राज्य विद्युत बोर्ड
Jharkhand State Electricity Board

N.Q. 191 DT. 8/9/2006

TO WHOM IT MAY CONCERN

This is to certify that JSEB have placed P.O. No. 15 dated 12/6/08 on M/s KEI, Kolkata for supply of 105 Kms 6.6/11 KV(E) Grade armoured XLPE FRLS. Aluminium 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.

(J.K. Chakraborty)
Chief Engineer (Generation)

Capital Electech Pvt. Ltd.

Contractors (Class-II)

Contractor (Class-II)

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

Ref No. CEPL/A-PDMP/KEI/14/1518 Date 13-05-2014

SUPPLY ORDER

To,
KEI Industries Ltd.
H2, Saran Chamber-2,
Park Road, Lucknow.

Kind Attn: Mr. Manoj Sharma(09935117761)

Dear Sir,

We are pleased to place a supply order of following Material for R-APDRP-SCADA Project at EDC Rural (DVVNL).

Sr. No.	Particular	Qty. in Km	Ind FOBD Price in Rs.	Total FOBD Price in Rs.
	Under 96 DVVNL-SHUTDOWN			
1	11KV XLPE 3X100Sq.mm. Cable Armoured	15.150	[illegible]	[illegible]
2	11KV XLPE 3X185Sq.mm. Cable Armoured	17.000	[illegible]	[illegible]
3	11KV XLPE 3X300Sq.mm. Cable Armoured	1.020	[illegible]	[illegible]
4	11KV XLPE 3X50Sq.mm. Cable Armoured	33.500	[illegible]	[illegible]
5	11KV XLPE 3X400Sq.mm. Cable Armoured	22.500	[illegible]	[illegible]
6	11KV XLPE 3X300Sq.mm. Cable Armoured	30.000	[illegible]	[illegible]
	TOTAL AMOUNT			[illegible]

2. COMMERCIAL TERMS & CONDITIONS

2.1 SCOPE OF WORK

Your scope of work shall be limited to design, manufacturing, testing and co-works supply of equipments as per the list of Qty & Price schedule, approved GTP & drawings.

2.2 PRICE BASIS

The above mentioned prices will remain firm during the period of complete supply of session times.

2.3 TAXES & DUTIES

Above rates are inclusive of all Duties & Taxes including any imposition charges if applicable and FOBD at Site.

2.4 TERMS OF PAYMENT

(a) 5% amount free advance of Total Value of PO after Drawing & GTP approval.

(b) Balance payment against 60 days PDC from date of receipt of entire material at site.

2.5 DELIVERY & MANUFACTURING PROCESS

Will be ended after approval of GTP and Drawing. Material will be delivered at Bazar.

2.6 CONTRACT DRAWINGS & MANUALS

You shall submit the 3 sets of GTP, GA Drawing, Foundation plan, Schematic diagram, wiring table and the BOM to CEPL, on our behalf 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 equipments you will supply 4 sets of all the final approved drawings viz GTP, BOM, GA, Foundation plan, Schematic diagram, wiring table along with instruction manual for the testing & commissioning. You will also handed over of operation & maintenance manual.

Reg. Off. : Plot No. 444, Block E, Vishwas Park, Uttam Nagar, New Delhi-110059 Tel No. : 28131220

पूर्वोत्तर सीमा रेल
NORTH EAST FRONTIER RAILWAY

कार्यालय
मु० विद्युती इंजीनियर
लीमीन, गुवाहाटी-781011

OFFICE OF THE
CHIEF ELECTRICAL ENGINEER
Northeast Frontier Railway
Maligaon, Guwahati-781011

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

To,
M/s KEI Industries Ltd.,
D/1 Kakkori Lane,
Jadavpur, Kolkata-700 032

(Attention : Mr. Alok Saha, Sales Engr)

Dear Sir,

Sub. Performance certificate.

This is to site the 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 NF 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,

(H. SARKAR)
Executive Electrical Engineer
for Chief Electrical Engineer

J.K. Electric Contractor

(A' Class Govt. Contractor & Order Suppliers)

M/s KEI Industries Limited

Sub: Performance of KEI make 11kV, 3.3kV, 1.1kV cables

Dear Sir,

We are pleased to inform you that the Performance certificate of cables received from Jaipur Development Authority, Jaipur for various works executed by us in cables kind of various size are as under:

Sr. 1 Source: 11kV Sub station, 11kV, 3 Core Cable, 185 mm Cable, 17 Nos
Sr. 2 Source: 11kV Sub station, 11kV, 3 Core Cable, 185 mm Cable, 17 Nos
Sr. 3 Source: 11kV Sub station, 11kV, 3 Core Cable, 185 mm Cable, 20 Nos

The performance of the cables laid found satisfactory.

Thanking you.

Yours truly,
For J.K. Electric Contractor

Encl: As above

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

TO WHOM SO EVER IT MAY CONCERN

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

te of work	Work Order No. & Date	Main Component of Work	Financial Year
of existing HT/LT Lines aying U/G Cables from ram Marg to Ajmeri Gate ank Road, Jaipur.	49 1.02.05	L.T Cable = 16652 Mtr. 11KV 3x185 Cable = 5683 Mtr.	2005-2006

m is working satisfactorily.

Zonal Engineer
Jaipur Development Authori
Jaipur

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

TO WHOM SO EVER IT MAY CONCERN

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

of work	Work Order No. & Date	Main Component of Work	Financial Year
tion of 33 KV Charging for JDA Residential Scheme Nagar, Jaipur. (Phase-III)	379, 14.08.07	3Cx240 Sqmm 33KV XLPE Cable = 12218 Mtr. 33KV O/H Joint = 8 Nos. 33KV S/I Joint = 34 Nos.	2007-08.
tion of 33 KV Double Circuit ng feeder from 132KV GSS Bassi V Scheme Kalpana Nagar, Jaipur	181, 14.08.07	3Cx300 Sqmm 33KV XLPE Cable = 14158 Mtr. 33KV O/H Joint 4 Nos. 33KV S/I Joint 12Nos.	2007-08.

Zonal Engineer(Electri
Jaipur Development Author
Jaip

Palmers Green International ltd.

Box 3689
Accra .Ghana
Tel: +233 21 200 399 / +233 21 12 54
Fax: +233 21 22 66 52 / +233 21 24 78

Ref: PGI/POZ N 76349/2005/128J Date: 26/03/2006

To,
M/s. KEI Industries Ltd.
101 – 102 Vasta Shilp
Vasta 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 06/10/2005

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/B&R/ELECT/15/TE/IX-IV/88 Date: 24-12-20

THE KEI INDUSTRIES LIMITED
30 DR. SUNDARI MOHAN AVENUE
1ST FLOOR KOLKATA 700014

Sub : Approval of your electrical product

Ref. : Your letter no. KEI/KOL/ [illegible] Dated : 2nd November 2006.

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 complain against unsatisfactory performance of your products.

LIST OF MATERIALS

i) PVC/XLPE insulated Power cable up to 33 kV Grade as per IS 7098/2000
ii) PVC insulated wires and cables as per IS 694.
iii) FR/LSH/FR/LSOH cables and winding wires.
iv) Submersible cables and winding wires.
v) Armored PVC controlled cables as per IS: 1554(Pt-1)-1988.
vi) 142 kV grade cables as per IS 7098 (Pt III).

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

Yours faithfully,

(P. Thomas)
Add. Chief Engineer, PWD (Elect.)
Assam, Chandmari, Guwahati-3

Memo No. : CE/B&R/ELECT/15/TE/Part IV
Copy to : 1) The Superintending Engineer, P.W.D. Guwahati Electrical Circle, City : I for information and necessary action.
2) The Executive Engineer, P.W.D. Guwahati/Jorhat/Tezpur/Nalbari/Jaipur Electrical Division for information and necessary action.
3) Mr. Alok Saha General Manager (Mktg) KEI Industries Limited Kolkata for information and necessary action.

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

Date 24 / 09 / 2

TO WHOMEVER IT MAY CONCERN

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

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

tive Engineer (Electrical)
Chinchwad Municipal Corporation
1 – 18, "C" Section Electrical Department,
ecutive Engineer (E.)
C Ward,
Chinchwad Municipal Corpn

TO WHOM IT MAY CONCERN

This is to certify that we have used KEI make 33 kV (E) 630 sq. mm X 1 Core H.T. cable through M/s. Pradip Kumar saha (Electrical Contractor) against C.A. No. CE(D)/ASEB/APDRP/CEC- Turnkey/06-07/20 dated 18.08.2007. Total Mtr. 1050.

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. Alok Saha
Dy. General Manager (Marketing)
KEI INDUSTRIES LIMITED.
3/1, KALIBARI LANE
JADAVPUR KOLKATA - 700032.
Phone 033 24264773

CC to
Mr. Kaushik Mishra
KEI INDUSTRIES LIMITED.
Regional Sales Executive North East
Guwahati
Cell 0 9954255137.

MAHARASHTRA STATE POWER GENERATION CO. LTD. (MAHAGENCO)
(Formerly Maharashtra State Electricity Board)
Prakashgad, 2nd Floor, Bandra (East), Mumbai-400 051, India
Tel. 26472131/26472211 Fax No. 26592627 Grams : COSGRID

Sr.IV/Misc/ 2164 – Date 15 FEB 20

WHOM SO EVER IT MAY CONCERN

This is to certify that M/s. KEI Industries Ltd., Mumbai have executed orders SP/L-600 IB/02007/13850 dtd. 13-09-2007 & SP/L 00-17-0406/0706-4502 dtd. 07-04-2007 in our office. M/s. KEI Industries Ltd., Mumbai have also registered in e-tendering process in our office for procurement of HT, LT XLPE/FR/PVC/FRLS Control & Power Cables.

15/2/08
Superintending Engineer (St.Con)
For Chief General Manager (Stores)

ic.iv/120

Eastern Coalfields Limited
(A Subsidiary of Coal India Limited)
ईस्टर्न कोलफील्ड्स लिमिटेड
(कोल इंडिया लिमिटेड का एक अंग)

NOTING SHEET

Branch Department: Area Engineering(E&M)No. 1, O/o The Office, Sodepur Area(ECL)

Sheet No. ECL/SDPA/AE(E&M)/Part 07/08/1
Name of Officer: Dy.Chief Engineer(E&M), Sodepur Area,
Date: 16th February, 20

Subject: Performance Report of PVC DWA Cable,3 Core,95² MM,3.3 KV Grade Used by Sodepur Area on period 10-04-2006 & 07-05-2006 Total length 500 Mtrs.

The above mentioned Cable was drawn by Sodepur Area during April'04 & May'04 and used in Mertella/Mainahora Colliery.

The performance Report of the Cable as known from the user Engineers(E&M) at the Colliery are found to be satisfactory.

This is for kind information and perusal.

Dy.CE(Civil)/AE(E&M), 16/2/07
Sodepur Area

Dy.Chief Engineer(E&M),
Sodepur Area

Dy.Chief Engineer,
Sodepur Area.

Dy.Chief General Manager(E&M),
Sodepur,
Sodepur(Kolkata)

VP(M)
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 XT 180 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

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 Nigam 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 (E) 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. - ISPAT STEEL PLANT
PLANT ENGINEERING & DEVELOPMENT DIVISION

Ref. No.: P/DD/CFL-20/2/94 Date : 31.10.2008

To
M/s. Mesco Ltd.,
Ranchi – 834002,
Jharkhand

Fax No. 0651-2482169 / 2482216

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

Dear Sir,

Sub.: 2.5 MTPA Expansion Programme of SAIL-R - Bonafide Demand Specification for Preferred makes (E) - 42A.
Additional Electrical Vendors for Bangle Jet.

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 included in the above project. These names may be included in those packages where tender-cum-notice Discussions are still in progress or yet to commence.

Yours faithfully,
For SAIL – IISCO STEEL PLANT
(S. K. GUPTA)
DY. GENERAL MANAGER (PROJECTS)

Encl. : Annexure-I (One page)

c.c. Shri E.E.Mohanajee, General Manager (Elect.), MECON, Ranchi, Fax No. 0651-2441660 — With a copy of Annexure-I

c.c. Shri Vedhavel, DGM (Elect.) Power T&D, MECON Ltd., Ranchi, Fax No.: 0651-2482169 / 2482214 — ditto

Enclosure to letter Ref. No Ref No.: PEDI CPL-20/
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 boards Up to 15000 KVA 11 KV Class Distribution Transformers (OMAN)	nil.
2.	LSIS / CECO Electronics Pvt. Ltd. / Control Engg. Co.	LT Switch gear & Control gear and Power Static converter. Automation Panel Digital Motor Protection Relay	nil.
3.	YAMUNA Power and Infrastructure Ltd. (DENSONS)	HT & LT cable jointing kits.	
4.	Standard Electrical Ltd.	MCB Distribution board (SLDB). ELCB Metal clad plug & sockets.	
5.	KEI Industries Ltd.	LT Power & Control cables (PVC / XLPE) 6.6 KV XLPE Cables (only for dry situation)	nil (or blank)
6.	Steel Pole Corporation	Steel tubular poles.	
7.	Control Devices	MCC (Non-draw out), PDB, MLDB Relay Control Panel. Receptacle	

ABB

1st FEBRUARY, 2008

TO WHOMSOEVER IT MAY CONCERN

THIS IS TO CERTIFY THAT M/S KEI INDUSTRIES LIMITED HAVE SUPPLIED THE FOLLOWING CABLES FOR M/S NEAPTURAM PORTER PROJECT AGAINST OUR PO NO. 5000001 DT. 24TH JULY 2006.

6.6 KV (U.E.), THREE CORE, STANDARD ALUMINIUM CONDUCTOR, WITH REINFORCED SEMI CONDUCTING COMPOUND IN DOMINATION WITH COPPER TAPE, LAYED UP, FILLED WITH PVC INNER SHEATH, GI SCREW ARMOURED, EXTRUDED OUTER ALL PVC MOULDED UP FOR 3.0/70/01 SIZES.

SCX 120/50MM 720 MTR
SCX 300/50MM 250 MTR

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

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

YOURS TRULY,
For ABB LTD.

AUTHORISED SIGNATORY

ABB Limited

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

No. 25/236/SEE/PEC/BGL/2015-16/ 914 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-1, 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/discrepancies 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. All Assistant Engineer(Ele. P&D) under above divisions through EEs.
3. M/s KEI Industries Limited, D-90, Okhla Industrial Area phase-1, New Delhi-110020

Executive Engineer (P&D)

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: 18.04.2013
3. M/s. KEI Industries Ltd., Lr.No.KEI/CRE/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 1 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 renewed accorded for one more year to use their products in TNPHC works.

Haldia Petrochemicals Limited

Date: 18/05/14

To,
M/s. KEI INDUSTRIES LTD.
D-90 OKHLA INDUSTRIAL ESTATE, PHASE-I
NEW DELHI – 110020
Phone: [illegible]

Dear Sir,

Subject : Letter of Appreciation

We are pleased to inform you that Haldia Petrochemicals Limited has been certified as ISO 9001:2000 Company by Certifying Agency DNV.

As per ISO norms, vendors working with HPL need to be evaluated for their performance. Accordingly, we send out our most important vendors for the purpose of evaluation and your company is one of them. We are glad to announce 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.

Thanking 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

(Tanmoy Dey)
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

Sub:- Purchase Order for supply of 33kv HT Cables for PLEG(S/S) NIRDA.

Dear Sir,

This has reference to our discussion we are pleased to release our attached P.O. as your firm for the supply of mentioned items as per the term & conditions mentioned below:-

Sl. No.	Item Description	Qty(Mtrs.)	Rate per mtr.	Amount Rs.
1.	33kv 3C X 300 sqmm HT Cable as per NFMS-1 authority specification as Approved GTP.	[illegible]	[illegible]	[illegible]
			TOTAL	[illegible]

1. COMMERCIAL TERMS & CONDITIONS

1.1 PRICE BASIS

The above mentioned prices will remain firm during the period of complete supply of mentioned items.

1.2 TAXES & DUTIES

EXCISE as per included above rates are FOR Destination at Site NIRDA.

1.3 TERMS OF PAYMENT

(a) 5% Intent Fee advance of Total Value of Weather Drawing & GTP approval.
(b) Balance 95% payment against PDC of 30 days from date of dispatch of material on site.

Contd.....(2)

TIN No. [redacted] Date/Jurisdiction Div. II: 15-4-03 C.S.T. No. MP-0004007 Dt. 26-6-01

H. O. : 140, Gopal Colony, Transport Nagar, Meerut (U.P.)

[redacted]

0121-2611749 Cell : 9897543613, 9412203639, Fax : 0121-2620047
Email : kpm_bulder@yahoo.com, kpmbulder@gmail.com
Website : www.kpmindia.com

Sri Kumar Alok
Chairman
SAIL Authority of India Limited
Ranchi

Dear Sir,

Sub: Supply of Cables

We have referred your letter no. KEI/Sales/SAIL/SCD dt. 28.05.2007 regarding inquiry for registration/approval/empanelment 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 discussion, you may please contact at the following address:

Sri K. Bhargav,
DGM(Utility Services-Power),
CET,
Ranchi
Telephone No. 0651-2411105/9334040327(Cell)
Fax - 0651-2411171/2411167

Thanking you,

Yours faithfully,

General Manager (SAIL CON)

Vendor Rating

NIRMA LIMITED

Date 30/05/2007

KEI INDUSTRIES LIMITED
D-90 OKHLA INDUSTRIAL AREA PHASE-I
NEW DELHI

Dear Sir,

Sub: Supplier of materials with NIRMA

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 01/05/2006 to 31/12/2006 and the details of our rating formula and your performance rating are as

QUALITY - 75% (REJECTION WORK) - 25% (C) SERVICE - 10%

ABOVE 95% - EXCELLENT
90% TO 95% - VERY GOOD
75% TO 90% - GOOD
50% TO 75% - NEEDS TO IMPROVE
50% AND BELOW - NEEDS TO MODERATE REVIEW

Quality of materials (Rate of rejection Quote)		70.00	
Timely Delivery	Out	20.00	Status :
General Response	Item	5.00	95%
(a) Work and Status	Total	95.00	Excellent

you obtained the total performance rating less than 50%, it means you have been taken on supplies of the materials in spite of timely delivery & services, as committed by you with us. So we will consider to decide for further business with you.

you obtained the total performance rating lies between 50% and 75%, there is ceiling scope for improvement in quality, timely delivery of material. We will observe your next performance rating marks.

you obtained the total performance rating lies between 75% and 90%, that means you need more efforts to improve the rate timely delivery of material to get the mark above 90% in future.

you obtained the total performance rating lies above 90%, kindly keep it as said by to improve the quality, timely delivery of material to get receive marks in future.

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

In meantime, if you have obtained the rating 95% and below as per our above performance rating, you may please kindly to visit our procurement office for a detailed discussion with Shri C.J. Patel (DGM Purchase) in the matter, after taking a prior appointment from Mr. Kishore Trivedi, Ext. No. 100, (Contact nos. and address as above).

Indian Oil Corporation Limited

Date: 14th Dec. 2006

TO WHOM IT MAY CONCERN

This is to certify that KEI Industries Limited has supplied 11 KV grade (XLPE, 3C X 630 sq. mm. Copper cable against PO NO. [illegible] LTD. 17.08.2006

Quantity 1292 KM in 9 drums, vide KEI'S Invoice No. B 08159 30.11.2006

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

O.M.PATTI
MANAGER

CC : Mr. Alok Saha

Dy. General Manager- Eastern India
KEI Industries Limited
21 Kalidasi Lane, Flat#1
Jadavpur, Kolkata – 700 032
West Bengal

Barauni Refinery

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

To,

M/s. KEI INDUSTRIES LIMITED
101-102, Vastu Shilp,
Vastu Enclave, Ajamata Road,
Andheri Pump House,
Andheri (E), Mumbai-400093
Tel: 022-28296713

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.1000/- (Five Thousand Only) by C.No.[illegible] 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 Authorised Vendor for HT Cables up to 33KV, LT PVC, Instrumentation Rubber FR Cables, Flexible Cables and House Wires, Specialty Cables Wiring and Mining Cables.

"VEN/MET-LIB/KEI INDUSTRIES / 2006-07/42

We are enclosing the official receipt for the above payment.

Thanking you.

Yours faithfully,

LIBRARIAN
MITCON, Pune.

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

No.2N/1/HECEC/ 451 Dated 09/06/2013

To
M/S. KEI INDUSTRIES LIMITED,
Plot No.76, H.No.3-4-52/5, Shahdaya Colony,
Near Little Clowns School,
Mansoorabad, Vanasthalipuram,
Hyderabad - 500 070.

Dear Sirs,

Sub: Approval of products "KEI" brand LT(HT/E.H.V./Wires & Flexible Cables/Power & Control Cables with ISI Mark of manufactured by M/S. KEI INDUSTRIES LIMITED, # 99/2/7, Madhuban Industrial Estate, Rakholi, Silvassa – 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/E.H.V./Wires & Flexible Cables/Power & Control Cables with ISI Mark of manufactured by M/S. KEI INDUSTRIES LIMITED, # 99/2/7, Madhuban Industrial Estate, Rakholi, Silvassa – 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 the quality, rate and performance of the product(s) while processing / using the same. Short comings / deficiencies of serious nature, if observed while in use at site may be brought to the notice of this office.

Yours faithfully,

(Kalaiselvan)
Superintending Engineer(E)
HECEC, CPWD, Hyderabad.

Copy to:
1 to 5) All Executive Engineers (Electrical) under HECEC, 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.
6) The Executive Engineer (P)/Planning Branch in HECEC for confirmation.

Superintending Engineer(E)

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

No. /MPHB/88-09/ Dated the 31/1/2008

Circular No. 31/08, Dated 19/01/2008

"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.

Endt No. 5781 /MPHB/88-09/ Dated the 25/1/2008

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, C.T./Y./A.T.M./S.O.H. Cell / [illegible], 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, Div. 1-2-3-4-5 & 6 Bhopal / Hoshangabad / Sagar / Sagar Project / 1-3 Gwalior / Vidisha / Guna / Rehabilitation Cell / Indore / Project Indore / Dhar / Khandwa / Ujjain / Ratlam / 1-2 Jabalpur / Balaghat / Satna / Chhindwara / Rewa / Sarni / Shahdol / Chhatarpur / CSR Cell, (H.O.), Bhopal.
7. The Executive Engineer(Elect.), MPHB, Div. 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/NTR/O/2008, dated 17/01/08.

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

ITDC Ashoka Bharat ENGINEERING COMPANY LIMITED

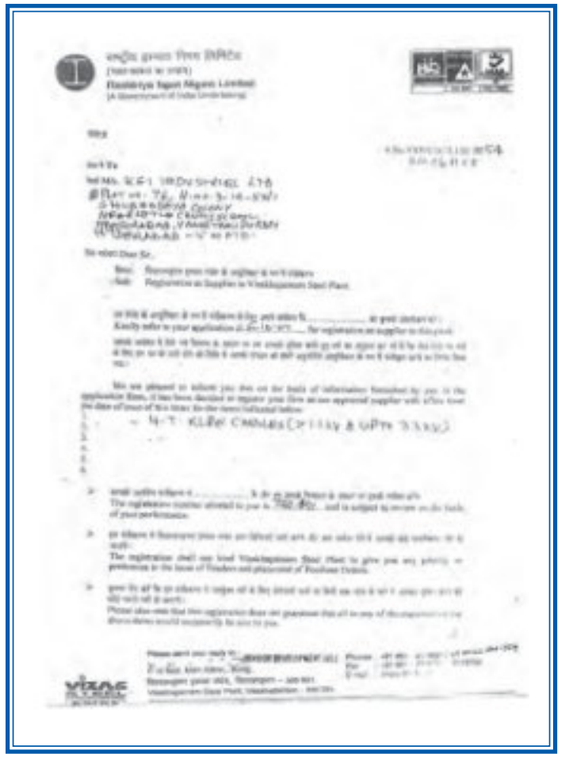
TO WHOM IT MAY CONCERN

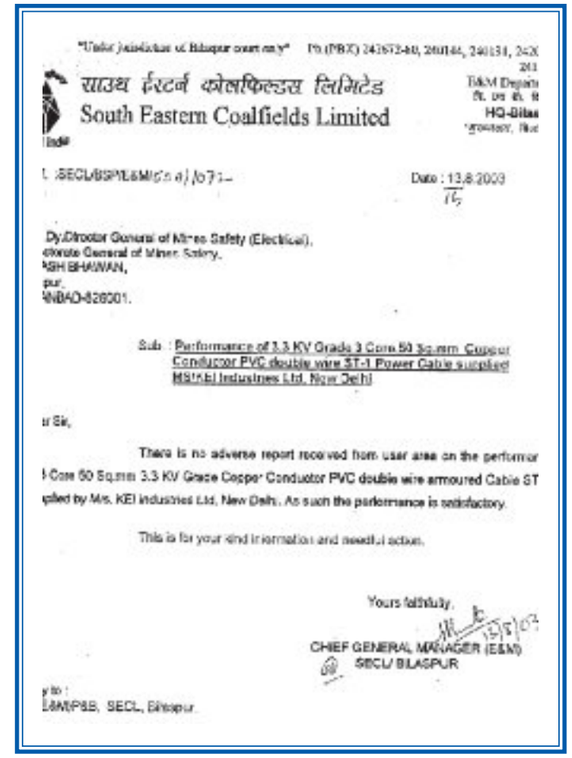
This is to certify that KEI Industries Limited has supplied 570 Meters of AXLWY, 11KV, 3 Core X 185 Sq.mm Cable against our P.O. No. 10286 dated 27.11.2006 for our Sarshatali Coal Washery Plant, A/C ECML, a subsidiary of CESC Limited.

The delivery & the quality assurance 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.K.PATNAIK
GENERAL MANAGER-ENGG.





"Under jurisdiction of Bilaspur court only" Ph (PBX) 243652-60, 260146, 240131, 242X
201

साउथ ईस्टर्न कोलफिल्ड्स लिमिटेड
South Eastern Coalfields Limited

T&M Depart
Ph. 09 ch. 8
HQ-Bilas
Seepat, Bil

SECL/BSP/E&M/C.a/1071

Date : 13.8.2009

Dy.Director General of Mines Safety (Electrical),
Ministe General of Mines Safety,
ASH BHAWAN,
pur,
NBAD-826001.

Sub : Performance of 3.3 KV Grade 3 Core 50 Sq.mm Copper Conductor PVC double wire ST-1 Power Cable supplied MS/KEI Industries Ltd. New Delhi

r Sir,

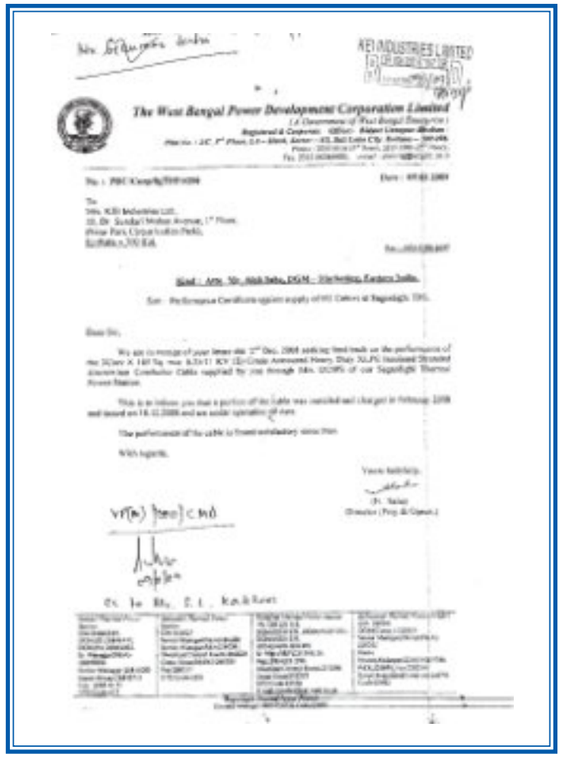
There is no adverse report received from user area on the performar 3 Core 50 Sq.mm 3.3 KV Grade Copper Conductor PVC double wire armoured Cable ST plied by M/s. KEI Industries Ltd. New Delhi. As such the performance is satisfactory.

This is for your kind information and needful action.

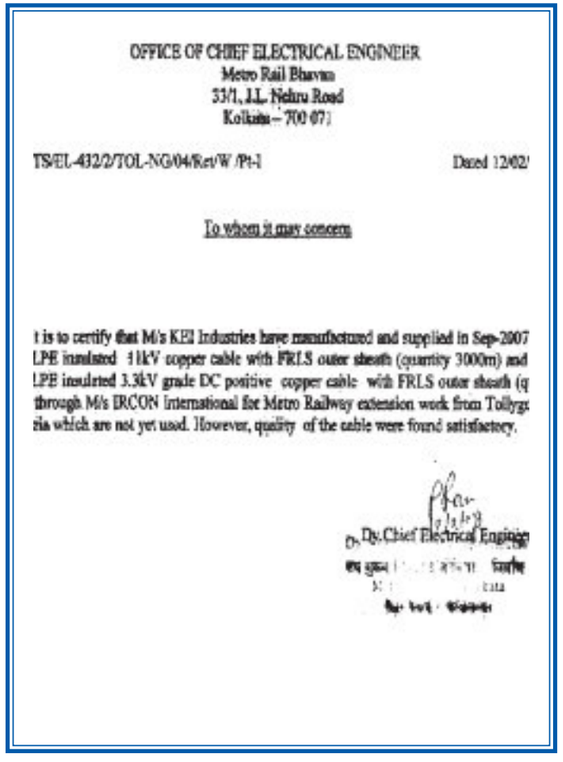
Yours faithfully,

CHIEF GENERAL MANAGER (E&M)
SECL/ BILASPUR

y to :
LM/P&B, SECL, Bilaspur.



The West Bengal Power Development Corporation Limited



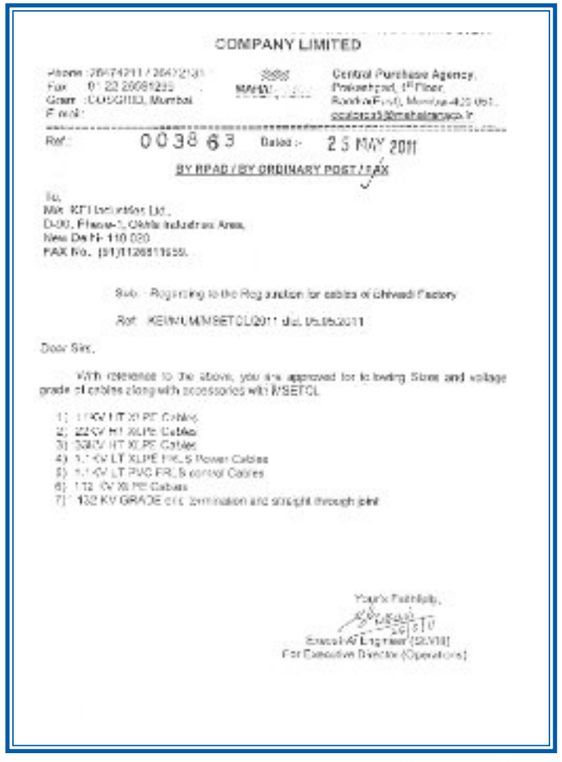
OFFICE OF CHIEF ELECTRICAL ENGINEER
Metro Rail Bhavan
33/1, J.L. Nehru Road
Kolkata – 700 071

TS/EL-432/2/TOL-NG/04/Rev/W /Pt-1 Dated 12/02/

To whom it may concern

It is to certify that M/s KEI Industries have manufactured and supplied in Sep-2007 LPE insulated 11kV copper cable with FRLS outer sheath (quantity 3000m) and LPE insulated 3.3kV grade DC positive copper cable with FRLS outer sheath (q through M/s IRCON International for Metro Railway extension work from Tollyga via which are not yet used. However, quality of the cable were found satisfactory.

Dy. Chief Electrical Enginee



COMPANY LIMITED

Central Purchase Agency,
Prakashgad, 1st Floor,
Bandra (East), Mumbai-400 051.

Ref: 003863 Dated :- 25 MAY 2011

BY RPAD / BY ORDINARY POST / FAX

To,
M/s. KEI Industries Ltd.,
D-90, Phase-1, Okhla Industrial Area,
New Delhi-110 020
FAX No. (91)1126811555.

Sub : Registering to the Registration for cables of Chhindi Factory

Ref : KEI/N/U/M/SETCL/2011 dt. 05.05.2011

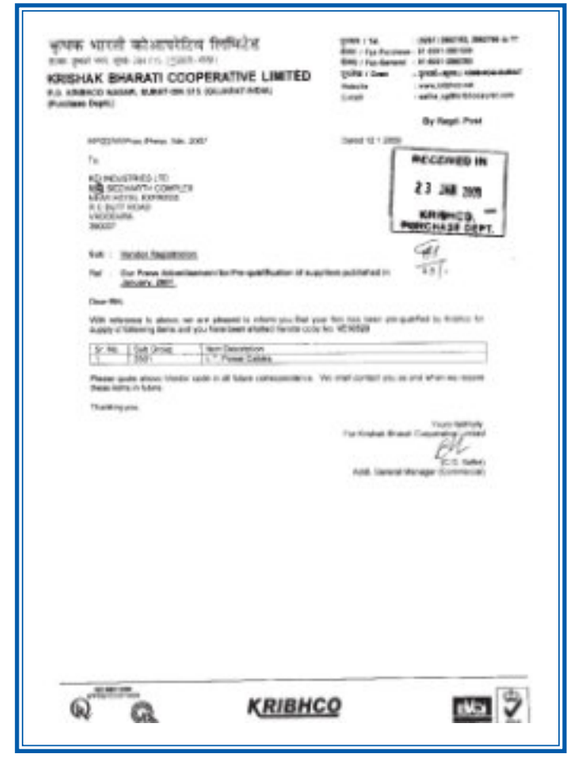
Dear Sirs,

With reference to the above, you are approved for following Sizes and voltage grade of cables along with accessories with R/SETCL

1) 11KV HT XLPE Cables
2) 22KV HT XLPE Cables
3) 33KV HT XLPE Cables
4) 1.1 KV LT XLPE FRLS Power Cables
5) 1.1 KV LT PVC FRLS control Cables
6) 132 KV XLPE Cables
7) 132 KV GRADE o.h. termination and straight through joint

Yours Faithfully,

Executive Engineer (E.V.M)
For Executive Director (Operations)

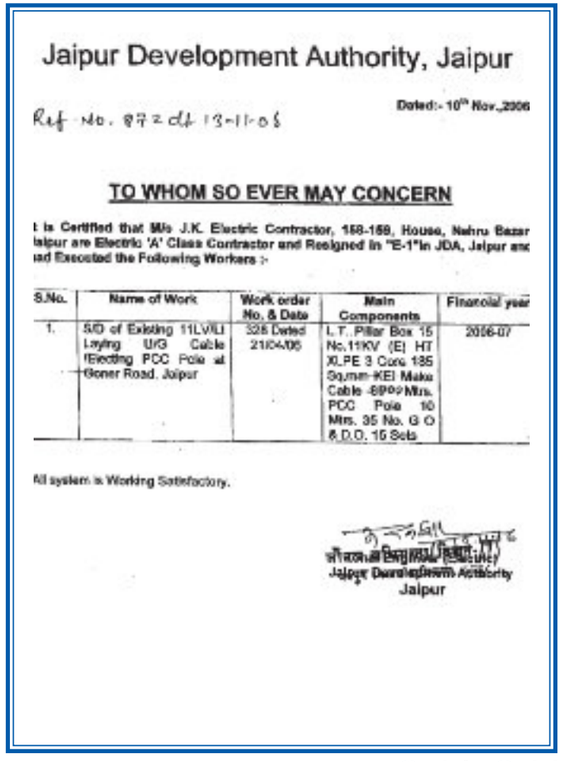


कृषक भारती कोआपरेटिव लिमिटेड
KRISHAK BHARATI COOPERATIVE LIMITED

By Regd. Post

RECEIVED IN
23 JUL 2009
KRIBHCO
PURCHASE DEPT.

KRIBHCO



Jaipur Development Authority, Jaipur

Dated:- 10th Nov.,2006

Ref No. 872 dt 13-11-06

TO WHOM SO EVER MAY CONCERN

It is Certified that M/s J.K. Electric Contractor, 158-159, House, Nehru Bazar Jaipur are Electric 'A' Class Contractor and Religned in "E-1"In JDA, Jaipur and ad Executed the Following Workers :-

S.No.	Name of Work	Work order No. & Date	Main Components	Financial year
1.	S/D of Existing 11LV/LI Laying U/G Cable Electing PCC Pole at Goner Road, Jaipur	3216 Dated 21/04/06	I. T. Pillar Box 15 No.11KV (E) HT XLPE 3 Core 185 Sq.mm-KEI Make Cable -8900 Mtrs. PCC Pole 10 Mtrs. 35 No. G O & D.O. 15 Sets	2006-07

All system is Working Satisfactory.

Jaipur Development Authority
Jaipur

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 & commisioned. Performance of the cables found satisfactory.

You're faithfully,

For Swastika Electricals and Fertilizers

Vinay Gupta
Director

SWASTIKA ELECTRICALS & FERTILIZERS

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	11KV (E)	16 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 95 SQ.MM	11 KV (E)	3 KM

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

You're faithfully
For Swastika Electricals and Fertilizers

Vinay Gupta
Director

SWASTIKA ELECTRICALS & FERTILIZERS

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

CHIEF MECHANICAL ENGINEER'S OFFICE, VEERMATA JEEJABAI BHOSALE UDYAN, MAZGAON, MUMBAI - 400 010. INDIA.

Tel. :8806 5008
Fax :91-22/23744277

No.CME/1-34/ 32Pt

17 NOV 2009

To,
KEI Industries Ltd.,
B-90, Gaza Ship,
Vasai Creek,
Andheri Pump House,
Sprotes Road,
Andheri East,
Mumbai - 093187.

Fax No. 28208277

Dear Sir,

Sub : Information as approved vendor for wires and cables.

Ref : Your letter No. KEI/ MUM/MPT/1/2009 dated 25.09.2009.

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

2. Mumbai Port Trust (MbPT) reserves the rights to revoke / suspend the enlisted approval any time at its sole discretion.

3. The 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 mentioned will be sent to you.

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

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

Yours faithfully,

(N.S. KHAROSHI)
CHIEF MECHANICAL ENGINEER

Encl.: 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 Chloprene (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
Jaitarang Compound, Kopari,
Thane (East)

Telefax 022/25321798(Office)
E-mail **semuhm@rfhaus@rediffmail.com**

No./MIP/SE(M)/New Approval/ 312 /10. Date: 31 /5 /2010.

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

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

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 MIP, manufactured at your Bhiwadi, Rajsthan plant as under.

i)	Details of manufacturer with location of factory address	**Factory Address** 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-rsonikei@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.

Contd/on reverse

- 37 -

1)Performance certificate of end user duly **notarised 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 certificate (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

(S.M.Gulabani)
Superintending Engineer (M)

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

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.

Contd/on reverse

- 38 -

BSES

BSES Yamuna Power Limited

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, New Delhi has successfully supplied full quantity of 10KM, 1C/1000 sq.mm, 66 KV (E) AL/ XLPE / LEAD ALLOY SHEATH Cable against Purchase order No. D01/20034639 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.

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

ABU DHABI GAS EXPLORATION COMPANY LTD
P. O. Box 3555, Abu Dhabi, U. A. E. Fax No. (9712) 6061201
In case of transmission error, please call (9712) 6060738

To		From		Page: 1
Fax No.	: 02-6060568	Fax No.	: 02-6061201	
Name	: Mr. Mukhtar Kharoshi	Name	: Mr. Hassan A. Thabet	
Title	: Registration & Prequalification Executive	Title	: Procurement Division Manager	
Company	: FALCON ENGINEERING & CONTRACTING	Company	: ADGAS	
		Ref. Date	: AD-158/048 11 March 2010	

SUBJECT: Registration No: 104054

With reference to your submission of the following Prequalis :
M/s. ICARUS SA BELGIUM, PQ questionnaire dated 3-3-10,
M/s. KEI INDUSTRIES. INDIA. PQ questionnaire dated 28.2.10
M/s. PALADON SYSTEMS LIMITED. UK. PQ dated 28.2.10.
we would like to inform you that, the following Products have been approved for inclusion in our data base system as possible source for service as shown below:

ICARUS S.A. BELGIUM	100005	PIPES ALL TYPES - SUPPLIERS	Agent
	100015	PIPE FITTINGS, FLANGES, ELBOWS, UNIONS – ALL SUPPLIERS	Agent
	104510	VALVES BALL (PPR) UNION	Agent
	104530	VALVES GATE/GLOBE/CHECK ABOVE 2"	Agent
	100033	BIMETAL PLATES - ALL METALS	Agent
KEI INDUSTRIES LTD-INDIA	204505	L.V. POWER & CONTROL CABLES	Agent
	204510	M.V./H.V. CABLES	Agent
	204515	CABLES – INSTRUMENT & COMMUNICATION	Agent
PALADON SYSTEMS LIMITED - UK	104500	VALVES - ACTUATORS CONTROL SYSTEM	Agent
	120000	STRAINER, SPRING TYPE	Agent

11/3/2010

ONGC

Offshore Design Section,
Offshore Engineering Services
ISO: 9001:2008
OFFSHORE SUGGESTED VENDOR LIST
Rev 6.0 (Apr 0.0, 2012)

Rev No: 6.0
Checklist: 47
Page: 34 of 45

S.No.	Product	Vendor Name	Country	
12	Lighting & Power Distribution Panel, AC DISTRIBUTION BOARD & DC DISTRIBUTION BOARD	a. Legrand (India)	India	
		b. Indo Asian Switch Gear	India	
		c. Vikrosally Circuit Breaker Mfg. Pvt Ltd. Mumbai	India	On Hold
		d. Mitra Electric Ltd	India	
		e. Warner Engg. Co. Mumbai	India	On Hold
		f. Capacitors, Mumbai	India	
		g. Siemens	Germany/India	
		h. LG	Korea	
		i. Mahle Electricals	India	
		j. HEECO	Korea	On Hold
		k. Schneider Electric India Pvt. Ltd	India	
		l. Middle East Switch Gear Ltd	Sharjah	
		m. Cooper Crouse-Hinds	USA	
		n. ES ETAS	Germany	
13	Solar Power System	a. Central Electronics Ltd	India	On Hold
		b. SHEL	India	
		c. Tata BP Solar	India	
		d. BP Solar	Australia	
		e. Sunpower	UK	
		f. MEC s.r.l	Italy	
		g. SunPower Corporation	USA / India	
14	Fire Survival Cables	a. Universal Cables, Satna, MP	India	
		b. NICAB	India	
		c. Cable Corporation of India	India	
		d. Polycab	India	
		e. Prysmian Power Link Srl	Italy	
		f. BICC	Singapore	On Hold
		g. Associated Flexibles & Wires Pvt. Ltd	India	
		h. KEI Industries Ltd	India	
		i. Nexans (Kabelkonz)	Korea	
15	FRP Cable Trays	a. SMB Industries, Bangalore	India	On Hold
		b. Kiran, Jodhpur	India	
		c. Sunwood Composites Pvt Ltd	India	
		d. INDWIRA, Mumbai	India	
		e. Fibrex	USA	
		f. Sunrip Composites Pvt Ltd	India	
		g. Sintex Industries Ltd	India	
		h. Gujarwel System	Malaysia	
		i. Kamrock Industries & Exports Ltd	India	
16	Batteries (Ni-Cd)	a. AMCO Power System	India	On Hold
		b. NBL Power systems Ltd	India	
		c. Amara Raja Batteries Ltd	India	
17	Hazardous Area Lighting Fixtures	a. Welgun Lighting Equipment	India	
		b. Magna Electrical, Mumbai	India	
		c. PCS Flame Proof Control Gears Pvt. Ltd	India	
		d. PCS Power Industries Pvt. Ltd	India	
		e. Pharwood Equipments Pvt. Ltd		

Please refer the notes at the end of the list.

* Indicates change from Rev 5.4

April 05, 2010

Life Insurance Corporation of India
Office of the Chief Engineer
25 Kasturba Gandhi Marg, New Delhi-110001

Engg Planning Approved Makes

Dated: 01.06.2011

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 multicore wires, PVC insulated/ unarmored 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 IS/ Codes. Your enlistment with LIC shall not bind LIC to give you any priority or preference in the case 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,

Sr.Dy.Engineer

Abu Dhabi Gas Industries Limited

Supplier's Existing Information Report

Supplier Code: 0006/1
Supplier Type: VENDOR
Commercial Standing status: QUALIFIED

Supplier name: [illegible]
Oil & Gas ?: Y
Onshore: also make
Onspot:

Requisitions

Requisition	Name	Agency Type	Agency No.	Agency Sig-date	Related Product Group	Product Group Description	Country	Price	Tax	Email
00080	KEI INDUSTRIES LTD	A		01-Feb-08	2420	L.V. POWER & CONTROL CABLES	IN	INR 1.00 EOP	EOP INDIA IN	[illegible]
00080	KEI INDUSTRIES LTD	A		01-Feb-08	2410	[illegible]	IN	INR 1.00 EOP	EOP INDIA IN	[illegible]
00080	KEI INDUSTRIES LTD	A		01-Feb-08	2420	XLPE / PVC INSULATED FR & COMM CABLES	IN	INR 1.00 EOP	EOP INDIA IN	[illegible]

Page 11 of 15

Tuesday, April 22, 2008

GUJARAT INDUSTRIES POWER COMPANY LTD.

Fax & Courier

SlipMail

15 December 2009

To,
M/S THE SINGHARENI COLLIERIES COMPANY LIMITED
CORPORATE PURCHASE DEPARTMENT,
P.O. KOTAGUDEM COLLIERIES-507 101
KHAMMAM DISTRICT (A.P.)

Dear Sir,

REF YOUR LETTER CRP/PS/06/00807, NO. C06/00/0574 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. [illegible])
MANAGER (MATERIALS)

Registered Office & Subsidiary Plant :
Phone : E-mail :

Sanat Gujarat Power Plant :
Village : Phone : Fax :
E-mail :

KINGDOM OF BAHRAIN
Electricity & Water Authority
Electricity Distribution Directorate

مملكة البحرين
هيئة الكهرباء والماء
إدارة توزيع الكهرباء

5104/2.5261 To F /04/RC

25th October, 2010

FAX

Mr. Khalid Bin Hindi
Vice President & COO
A.A. Bin Hindi B.S.C.

Fax: 17 400761

Dear Sir,

Subject: Type Test Report – LV XLPE Cable 240 4c x1
Manufacturer: KEI India

This refers to your letter No. SPR/178/EDD/PQ/KEI/10 dated 28.10.2010.

The type test report from CPRI Bangalore was found satisfactory.

Yours sincerely,

Dr. Hibo Sayid Hassan
Chief, Planning & Materials

cc: Purchasing & Supply Directorate. Fax: 17701542 / 17537896

RCov Pld (10/0)

Federal Electricity & Water Authority

Ref: 2007/4001/09

Date:

To : M/s KEI Industries Limited

Fax : 04 / 3689337

Sub : Low Voltage Cables Approval

Refer to above subject and in response to your request no. KP/FOL&e/PE/EIA/09 dated 23.05.2009, please be informed that the delivered cables in 2007 under contract no. T/1128/2007, as follows:

Sr. No.	Description	Quantity
1	2x25mm² Aluminium XLPE Cable	7.000M
2	4x25mm² Aluminium XLPE Cable	70.000M
3	4x35mm² Aluminium XLPE Cable	20.000M
4	4x50mm² Aluminium XLPE Cable	60.000M
5	4x70mm² Aluminium XLPE Cable	30.000M
6	3.5x95mm² Aluminium XLPE Cable	35.000M
7	3.5x185mm² Aluminium XLPE Cable	90.000M
8	3.5x300mm² Aluminium XLPE Cable	235.000M

And the following cables delivered under contract No. T/2323/W/2007 in 2008

Sr. No.	Description	Quantity
1	2x16mm² Aluminium XLPE Cable	38.000M
2	4x16mm² Aluminium XLPE Cable	40.000M
3	4x25mm² Aluminium XLPE Cable	40.000M
4	4x35mm² Aluminium XLPE Cable	20.000M
5	4x70mm² Aluminium XLPE Cable	35.000M
6	3.5x95mm² Aluminium XLPE Cable	30.000M
7	3.5x185mm² Aluminium XLPE Cable	80.000M
8	3.5x300mm² Aluminium XLPE Cable	50.000M
9	3.5x300mm² Copper XLPE Cable	2.000M
10	3x95mm² Copper XLPE Cable	25.000M

These above mentioned cables were installed in our networks in 2007 & 2008.
Also LV cable size 4x70mm² (200m) delivered in 2006.

Regards

Engr. Zahid Mohammad
Director of Operation & Maintenance

HARYANA VIDYUT PRASARAN NIGAM LIMITED
(Regd. office: Sector-6 Shakti Bhawan, Panchkula)
Office Of the Executive Engineer/Transmission System Division, HVPNL, Mob. Road, Gurgaon-122001
693134-72674

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 26.705 Kms. 66 KV (E). 1X1200 Sq.mm, Aluminum XLPE Cable against Purchase Order No. HDP-1776/REC-490/Xen/Project(S/Stn.) 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. Div. HVPNL Gurgaon

Headquarters
Chief Engineer
Pathankot Zone
Pathankot – 145001

27058/XXXVI /E2(D)

11 Jun 2015

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 &Plg)
For Chief Engineer

Encls: (As above)

Internal:-

E-8 Sec
E-4 Sec } for info

INTEGRATED COAL MINING LIMITED

Dated: 27th September, 2010

KEI Industries Ltd.
10, Dr. Annie Besant Road, 1st Floor
Worli, Mumbai-400018

WORK ORDER

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

Ref: 1) Our NIQ no. ICML/MUM/LOM/09-11 dated 07.06.2010 for HT, LT and Control Cable
2) Our Quotation no. TOD/MRN/KEI-PEA-F/0401
3) Your offer no. KEI/KEIL/CEIL/11/10-12/0[illegible] dated 24.06.2010 for supply of HT, LT and Control Cables
4) Final negotiation meeting held on 16.08.2010
5) Your revised offer no. KEI/KEIL/O-11/CEIL/10-12/01 dated 16.08.2010 based upon Negotiation meeting held on 16.08.2010 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 detail terms & conditions in connection with Power Supply arrangement at Nenshalali 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	1,26,46,589/-
	Total	1,26,46,589/-
	Rs. One Crore Twenty Nine Lakhs Forty Eight Thousand Five Hundred and Sixty Nine only	

PMCH HEALTH ADVISORS

Ref.:-PMCH/34-15/1234 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-1, New Delhi-110020 has supplied FR (Ilomensh) 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, Bhille Ka Beela, Udaipur (Raj.) and Pacific Institute of Medical Sciences, Umarda, 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

NATIONAL ELECTRIC POWER CO. (NEPCO)
AMMAN - JORDAN

شركة الكهرباء الوطنية
المساهمة العامة
عمان - الاردن

TELEFAX MESSAGE

To	KEI Industries Ltd.	Date	10-Sept
ATTENTION	General Manager	Ref.	NEPCO/293
Fax No.	+ 91-011-2681 9998/7328	Pages (Incl. cl.)	
COUNTRY	India		

SUBJECT: Contract No.1/2007 For Low Voltage Power Cable, Control Cables & Earthing Conductor
Performance Certificate

This is to certify that the National Electric Power Company (NEPCO) have purchased under the below mentioned contract the following cables from KEI Industries Ltd. (India):

- Low voltage power cables.
- Multicore control cables.
- Instrument cables screened.
- Stranded copper conductors.

The s.m. cables have been in service as given above and until now their performance is satisfactory.

cc: International Technical Construction Company, Amman - Tel. 553 7869

During engineering, manufacturing, works testing and supervision of site erection the following was noticed:

1) International Technical Construction Company (KEI Industries company agent) complied with the CFR date even the short notice period.
2) Works tests were completed without any problems.
3) In general cooperation and coordination of international technical construction company during the execution of the contract was good.

Yours Faithfully

Project Director
Eng. Majdi Samara

(2611)

LIC

Ref.Engg/WZO/Elect. dt.23.08.2013

M/s KEI Industries Limited
101/102/103 Vastu Shilp
Vastu Enclave
Jymata 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

KSEB

KERALA STATE ELECTRICITY BOARD LIMITED
(O/o the Executive Engineer, Transmission Division, Kazhakuttam, Kazhakuttam P.O., Thiruvananthapuram)
Phone 0471-2410101, 9446008107, E-mail : eetdpcm@kseb.in

PERFORMANCE CERTIFICATE

Certified that M/S KEI INDUSTRIES LTD, D-91, 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 3Rc cable QTY-24.518 KMs along with accessories like Pre-moulds type straight joints, Pre-mould 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 (ISRO CAMPUS) Substation under this Division

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

Kazhakkottam
06-22.10.2015

EXECUTIVE ENGINEER

Offshore Design Section
Engineering Services
ISO – 9001:2000

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 24599619
E-mail: badole.vendorcell@gmail.com, badole_dhananjay@ongc.co.in

From: Dhananjay Badole, SE(M)
File Ref. ONGC/Vendor cell/Badole/[illegible]
Date: 14.01.2013

To,
M/s KEI Industries Ltd, India
D-90, phase-1, Okhala Industrial Area,
New Delhi 110020
manoj.kei@vsnl.com
prabhakar.dhaliwal@kei-ind.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 to 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 release of the suggested vendor list of Offshore Engineering Services.

Best regards,

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

شركة تنمية نفط عمان ش.م.م
Petroleum Development Oman L.L.C.

CERTIFICATE OF REGISTRATION - PRODUCT VENDOR

CERTIFICATE NUMBER: 101733
Not Registered With PDO | Date of Issue: [illegible]

PETROLEUM DEVELOPMENT OMAN L.L.C
Contract Tech

Manufacturer: KEI INDUSTRIES LTD
Country of Origin: INDIA
Local Agent: AL HASSAN ELECTRICALS CO.L.L.C.
Postal Address: P.O. Box 1918, PC 112 Ruwi – Sultanate Of Oman

IS REGISTERED WITH THE COMPANY AS AN APPROVED PRODUCT VENDOR WITH EFFECT FROM THE DATE OF ISSUE OF THIS CERTIFICATE FOR THE FOLLOWING PRODUCT GROUP CATEGORIES:

Electrical Cables

Khalfan Al Busaidy (FPG)
Head Business Development

NB: This Certificate is valid until: 14/12/2016

Sharjah Electricity & Water Authority
Planning, Design & Projects Office
P.O.Box : 41515 Sharjah, U.A.E.
Telephone: 06-5460001
Fax: 06-5460214
Email: www.sewa@sewa.gov.ae

هيئة كهرباء وماء الشارقة
قسم التخطيط والتصميم والمشاريع
ص.ب : ٤١٥١٥ الشارقة، الإمارات العربية المتحدة
تلفون: ٠٦-٥٤٦٠٠٠١
فاكس: ٠٦-٥٤٦٠٢١٤
البريد الإلكتروني: www.sewa@sewa.gov.ae

M/S Sarmin Electrical Trading & Contractors
Sharjah, P.O.Box 2589
Tel: 06-561 3621
Fax: 06-561 7941
Dear Sirs,

المكرمين / شركة سرمين للتجارة الكهربائية
الشارقة، ص.ب ٢٥٨٩
تلفون: ٠٦-٥٦١٣٦٢١
فاكس: ٠٦-٥٦١٧٩٤١
السادة المحترمين

الموضوع / تأهيل المقاولين مسجل لدى هيئة كهرباء وماء الشارقة
Subject: Pre-qualification of KEI Industries Ltd - India

Please be advised that your registration for pre-qualification of contractors for Sharjah Electricity & Water Authority has been registered under the category of manufacturer of cables and KEI Industries Ltd - India has been registered under the category of contractor.

يرجى العلم أن تسجيلكم لدى هيئة كهرباء وماء الشارقة لتأهيل المقاولين قد تم تسجيله تحت فئة مصنع كابلات، وشركة كي آي آي للصناعات المحدودة الهند تم تسجيلها تحت فئة مقاول.

Director General
مدير عام الهيئة

Qatar Petroleum
MATERIALS DEPARTMENT
Qatar Navigation Place
P.O.Box 47, DOHA-QATAR
Website: www.qp.com.qa
(974) 4240000 | Fax (974) 4240081

To:	KEI Industries Limited	From:	QP SUPPLIER REGISTRATION
Email:	kmanuals@keiind.com	Fax:	+974-4240081
Attn:	Commercial Manager	Phone:	+974-4240048
Date:	21/10/2010	Email:	supplierreg@qp.com.qa
CC:	rajdubal@kei-india.com	Ref:	1000

Subject Vendor Registration(This does not cover/include Vendor pre-qualifications or product approval)

We are pleased to inform you that your registration request with Qatar Petroleum has been processed.

Your Materials SAP Vendor Registration Number is: 100007 Expiry Date: 30/09/2011

Please note carefully your registration expiry date and make sure to initiate registration renewal process at least four weeks ahead of the expiry date. Failure to do so may result in removing your company from the QP Materials Supplier list.

Submission of a completed Supplier registration form and any subsequent data requested may result in any approved or pre-qualification status to any supplier. The award of any business to QP will follow established procedures for bidding, evaluation and negotiation.

Your company has been added to the Registered Supplier/Manufacturer database for the following commodities based on QP Materials Department coding system:

Sec. #	Material Group	Commodity
1	0000	Electric Cables & Wires

Should there be any changes in your company profile (e.g. name, address, telephone, fax, contacts) or location of signing agreement, certificates, change of ownership etc) or if you are no longer able to meet the above mentioned commodity groups or any time in the future circumstances change, such that your company is no longer able to comply with the qualification criteria, your company should promptly ensure all required updates are processed on the e-Registration application on QP website.
Email you security credentials, please contact Supplier Helpdesk by email: supplierhelpdesk@qp.com.qa

QP reserves the right to remove your company name from the registered suppliers database at its discretion and without notification.

It is advisable for you to maintain all your information up to date, as we will refer to the information on this e-Registration system for all business related activities.

Thank you for your interest in doing business with Qatar Petroleum.

Original Signed

Abdulaziz Zaid Nasser Al Naimi
Manager Materials, MT

NOTE: This is a Qatar Petroleum official document which is restricted to the addressee and may contain privileged / proprietary material, information or information that this document without the prior consent of QP Materials Department.

BY SPEED POST
जवाहरलाल नेहरू पोर्ट ट्रस्ट
JAWAHARLAL NEHRU PORT TRUST
25

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

Sub : Renewal of Vendors reg.

Registration No. : 0026A - Cables (All Types)

महोदय,

1.	पंजीकरण संख्या (कृपया उपरोक्त संदर्भ संख्या के साथ लिखा जाना चाहिये)	0026A
2.	आप द्वारा संचित किये गये पंजीकरण किस तरह के हैं (विवरण)	Cables (All Types)
3.	पंजीकरण की श्रेणी	A
4.	पंजीकरण की तिथि	30/09/2010 तक.

Saudi Electricity Company
Headquarters
External Correspondence

Public services
Material sector
Purchasing Department
Head Office, Faisaliah, 3rd Floor
Tel. 4619490, fax 4617481

Ref. No. 1070000000
Date : 15/03/2010

M/S : Nesab Contractingsh Trading Co.,
Fax, 01-4733034
Subject : Notification of qualifying Distribution Material Products

Dear sirs,
Referring to Qualification Request of Indian KEI Industries Factory, we would like to inform you that, we already have qualified for aforesaid factory in the field of low Voltage Cables (copper& aluminum), control Cabloak, middle voltage cables.

You shall be given the opportunity in the next tender according to qualified materials, provided to submit modern inspectionll testing certificates for these materials from International Laboratory certified by Saudi electricity Company.

This notification is not an obligation from Saudi Electricity Company for purchasing, and you shall be given the opportunity to submit your offer, and shall be assessed according to applied policies of the Company.

Kindly refer to Company official website (www.se.com.sa), purchasing link/ E-tenders, to pursue the new tenders.
Appreciate your efforts to work with Saudi Electricity Company.

Best Regards,

Purchasing Manager
(Signed)
Eng. Mohammed Alsahrani

PETRODAR OPERATING COMPANY LIMITED
PETRODAR BUILDING, AL MOGRAN DISTRICT
KHARTOUM, REPUBLIC OF THE SUDAN
TEL: 00249-183-780000/01 FAX: 00249-183-780040
PDOC PHASE 2 PROJECT (UPSTREAM)

Our Ref No. : PDOC/01-SUP/000-01/TURNKEY/0001 Date : 19 July 2009

To : STAR CONTRACTING
H. No. 06 Sq. 23-Hi Sal South,
Khartoum, Sudan
Tel: 00 249 183 773996 / 245041
Fax: 00 249 183 773996

Attn : Mr. Sebesh Kumar
Project Manager

CC : Mr. Imad Al Mogani, Vice President, PDOC
Mr. Lal Pangin, General Manager, Exploration & Production, PDOC
Mr. Musa Ahmed, PIP Team Leader, PDOC
Mr. Sorana Ahmed, PIP Field Project Manager, CTC

Reference : EPCC for Field Surface Facilities (Year 2008 to 2010)
Contract No PDOC/2008-001A

Subject : LV, MV and HV Cable Manufacturer - KEI Industries Ltd, India

The OWNER refers to the CONTRACTOR's letter ref. SOR/PDOC/CONTRACTS/0 dated 14 July 2009 on the above subject matter.

The OWNER has no objection with the vendor list submitted by the CONTRACTOR in its letter dated 14 July 2009.

However, the contractor forwarded that many of the EQUIPMENT AND MATERIALS failed to perform in accordance with PDOC REQUIREMENTS or to the satisfaction of the OWNER, the said EQUIPMENT AND MATERIALS should be replaced with the approved products after order placed by the OWNER. If the CONTRACTOR's work not in accordance to Condition 11 – DESIGN REVIEW, Clause 11.0A, Condition 10 – EQUIPMENT AND MATERIALS AND WORKMANSHIP, Clause 10.3, Condition 42 – INSPECTION AND TESTING and other related clause in the CONTRACT.

Sincerely yours,
for PETRODAR OPERATING COMPANY

Omar Mohamed Mustafa
Projects and Facilities Manager, PDOC

Name: Sebesh
Project Director, PMC

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	: Crompton/ Kirloskar/ETD/ ITL/ Voltamp/ KEL/ Shree Rajlaxmi/ BOMRAS/ TELK/ ABB/VA
2	H.T Breaker Panel	: Schneider Electric/ Crompton Greaves/ Joshi Limited/ ABB Limited/ Siemens Limited/Areva
3	Gang Operating Switches	: Metropolitan Trans Electricals Golden
4	Lighting Arrestors	: H.S Insulators/ KEL/ Lamco/ Areva/ Schneider Electric
5	Moulded Case Circuit Breakers (MCCB)	: Larsen & Toubro/ GE/Power/ Schneider/ Control & Switch Gear/TEXO/ ASEA/ABB/ Siemens
6	Air Circuit Breakers	: Larsen & Toubro/ Siemens/ Control & Switch Gear/ GE Power/ Schneider Electric/ABB
7a	Lighting Fixtures (Indoor)	: Philips/ Crompton/ Bajaj/GE lighting/ Wipro/ Asian/K-lite
7b	Lighting Fixtures (Outdoor)	: Bajaj/ Crompton/ GE lighting / Philips/ Wipro/ L-Ho/ Pentite
8	Fluorescent tubed lamps	: Philips/GE/ Wipro/OSRAM/Sasya
9	Switch fuse units and Isolators	: Crompton/ Siemens/ Larsen & Toubro/ Cutler Hammer/ Control and Switch Gear/ SELCON/ Schneider Electric/ ABB/ SIE/ Areva / Indo Asian
10	Changeover Switches	: Control and Switch Gear/ SELCON/ Schneider Electric/GE/Areva/ Indo Asian
11	Moulded shell socket with short start enclosure. (Industrial type)	: Crompton/ Cutler Hammer/ Kaiser/ Havell's/GE Power/Schneider/ LET/ Siemens/Control & Switch Gear/ ABB/ Indo Asian
12	Copper conductor PVC insulated wires (with ISI mark)	: Cable Flexible/ Havell's/ LET/ Indo Asian
13	Aluminium conductor PVC insulated wires (with ISI mark)	: BRED Red Cable/ WIN Cable/ Polycab/ Indo Basic
14	Miniature Circuit Breakers	: MDS/Indo Asian/ Schneider Electric/ ABB/ LET / Havells/ Siemens/ Legrand
15	HT/LT/Control Cables	: Gloster/BPO-Asian/ Universal/ KCL/ INCAB/ NICCO/ Havell's/ Raflexo/ Primcable/CCV/ Green Cab/ KEI
16	Telecommunication Cables	: KEI/ DELTON/ Finolex/ Karnataka Telephone cables / Dossmann / Havell's
17	Fan Hooses	: Crompton/Kaitson/Siemens/Usha/Bajaj/ Orient
18	Steel Conduits	: Any make with ISI mark (ISI certification)

FOR DRAWING OFFICE

SIGNATURE OF CONTRACTOR

Headquarters
External Correspondence

الشركة السعودية للكهرباء
Saudi Electricity Company

المقر الرئيسي
مراسلات خارجية

القطاع العام
إدارة المشتريات
المركز الرئيسي (الفيصلية) – الدور الثالث
هاتف: ٤٦١٩٤٩٠ – فاكس: ٤٦١٧٤٨١

الرقم: 10/3/0000
التاريخ: 2010/03/15م

السادة/ شركة نسب للمقاولات والتجارة
01-4733034

المحترمين

الموضوع: إشعار بتأهيل منتجات مواد التوزيع

تحية طيبة وبعد،

إشارة إلى طلبكم لتأهيل مصنع KEI Industries الهندي، نود إفادتكم بأنه قد تم تأهيل المصنع المذكور في مجال كابلات الجهد المنخفض (نحاس و ألمنيوم)، كابلات التحكم و كابلات الجهد المتوسط.

هذا وسنتيح لكم الفرصة في المناقصات القادمة حسب المواد الموافق فيها على أن تقدموا شهادات الفحص و اختبار حديثة لهذه المواد من مختبر دولي معتمد لدى الشركة السعودية للكهرباء.

نرجو أن لا يفسر هذا الإشعار على أنه التزام من الشركة السعودية للكهرباء بالشراء، هذا وسنتيح لكم الفرصة للتقديم وسيتم عد العامة و تقييم حسب سياسات و إجراءات الشراء المعمول بها في الشركة.

كما نؤكد على أهمية متابعة الصفحة الرسمية لموقع الشركة الرسمي (www.se.com.sa) رابط المشتريات/المناقصات الإلكترونية لمتابعة ما قد يصدر لكم من مناقصات جديدة.

شاكرين لكم رغبتكم بالتعامل مع الشركة السعودية للكهرباء،

وتقبلوا تحياتي،

مدير إدارة المشتريات
م. محمد الزهراني

صورة / إدارة المشاريع الفنية التوزيع
صورة / إدارة مشاريع مواد التوزيع
صورة / المشتريات بمقطع الأصل

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

Ref No. 11/00/2010/Proc Sales/SBU/SPF/1001 Date 07/FEB/11

KEI INDUSTRIES LTD
D1-70 Rambir Mohan Avenue (Lattice)
Near Park Circus Lucas Park
KOLKATA 700 016
Tel 033 23566666/7/8/ 2318 0000/0001/99

Sub : Vendor Registration with MECON

Ref : Your letter No. KEI/MECON/CONTRACTS/11 dated 01-JAN-11

Dear Sirs

Kindly refer to your above mentioned letter. We are pleased to inform you that your company is enlisted in our Approved Vendor List for the following, which is now valid till 06-02-FEB-14. This is subject to terms and earlier letter no. 11/00/2010/SVDEC/0000-1000/1011 dated 3.0.00

ELECTRICAL INSTRUMENT & CONTROL SYSTEM & SPARE EQUIPMENT, POWER DISTRIBUTION EQUIPMENT & CABLES

1 CABLE - FLEXIBLE CABLE (up to 0.6/0.1kV Non-Adaptive cables) (0.1/0.1kV)
2 CABLE - HT POWER CABLE (11kV/33kV)
3 CABLE - MS Armoured Cable (Control/Power)
4 CABLE - LT CONTROL CABLE
5 CABLE - LT POWER CABLE
6 CABLE - INSULATION MATERIAL (LONG BLUE TAPE)
7 CABLE - CONDUCTOR (WIRE)

ERECTION CONTRACTORS :
1 - ELECTRICAL POWER SUPPLIER/FIRM

Please note that the contractor should not be allowed to make any alteration in material or make material any and quality of above mentioned products without prior consent for service records.

Further it is imperative to inform Mecon any change in the product, location of works/subsidiaries, Management, Organisation structure etc. and best feedback on promptly along with relevant documents for our necessary action. Billing which our engineer may minimum you and data provided herewith as all the data is to be calculated. Kindly keep sending your service report every year. Your confirmation shall be considered to be as an acceptance of your existence with MECON.

The offer is valid for one year. Kindly confirm your offer/order acceptance, and also to be the sole distributor/ OEM CONTRACTOR in Delhi. The total value refers to quote for renewal of your registration at least 2 months in advance of expiry of the validity period.

Thanking you,

Yours faithfully
For MECON LIMITED

(S.S.P. Singh)
DGM(Procurement & Materials)
e-mail: sulkhan@mecon-ltd.com
Fax 091-24-2359 Tel 091-24-3410

Major Offices

HQ New Delhi	HQ Mumbai	Kolkata/Bokaro	Pune/Chennai	Pune/Bangalore
+91-11-2024 1201/1202	+91-22-2261 2787(Fax)	+91-33-2361 2551	+91-20-2612 4000	+91-80-2337 1333
+91-11-2024 1214 (Fax)	+91-22-2261 2787(Fax)	+91-33-2361 4447(Fax)	+91-20-2612 1474(Fax)	+91-80-2337 1333(Fax)
delhi@mecon-ltd.co.in	mumbai@mecon-ltd.co.in	kolkata@mecon-ltd.com	chennai@mecon-ltd.co.in	bangalore@mecon-ltd.com

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	Crompton/ Kirloskar/ETD/ ITL/ Voltamp/ KEL/ Bharat Bijlee/ INTRANS/ TELK/ ABETA.
2	ICT Breaker Panel	Schneider Electric/ Crompton Greaves/ Areva Limited/ ABB Limited/ Siemens Limited/Areva
3	Gang/Operating Switches	Metropolitan/ Trans Electricals/ Golden
4	Lightning Arresters	WS Insulators/ KEL/ Lamco/ Areva/ Schneider Electric
5	Moulded Case Circuit Breakers (MCCB)	Larsen & Toubro/ GE Power/ Schneider/ Control & Switch Gear/NGEI/ ASEA/ABB/ Siemens
6	Air Circuit Breakers	Larsen & Toubro/ Siemens/ Control & Switch Gear/ GE Power/ Schneider Electric/ABB
7a	Lighting Fixtures (Indoor)	Philips/ Crompton/ Bajaj/GE lighting/ Wipro/ Asian/ K-lite
7b	Lighting Fixtures (Outdoor)	Bajaj/ Crompton/ GE lighting / Philips/ Wipro/ K-lite/ Bandlin
8	Fluorescent tubes/ lamps	Philips/GE/Wipro/OSRAM/Surya
9	Switch fuse units and Isolators	Crompton/ Siemens/Larsen & Toubro/ Cutler Hammer/ Control and Switch Gear/ ELCON/ Schneider Electric/ ABB/ GE/ Areva / Indo Asian
10	Changeover Switches	Control and Switch Gear/ ELCON/ Schneider Electric/GE/Areva/ Indo Asian
11	Metal clad socket with sheet steel enclosure (Industrial type)	Crompton/ Cutler-Hammer/ Siemens/ Havell's/GE Power/Schneider/ L&T/ Siemens/Control & Switch Gear/ ABB/ Indo Asian
12	Copper conductor PVC insulated wires (with ISI mark)	Colour/ Finolex/ Havell's/ L&T/ Indo Asian
13	Aluminium conductor PVC insulated wires (with ISI mark)	SHILI/ Kavi Cab/ WIN Cab/ Polycab/ Inside/ Resine
14	Miniature Circuit Breakers	MDS/Indo Asian/ Schneider Electric/ ABB/ L&T / Havells/ Siemens/ Legrand
15	HTLT/Control Cables	Gloster/RPG-Asian/ Universal/ ICL/ INCAB/ NICCO/ Havell's/ Reliance/ Priyamala/CCI/ Gemscab/KEI
16	Telecommunication Cables	ICL/ SELTON/ Finolex/ Karnataka Telephone cables/ Dossmann/ Havell's
17	Fan Pedestals	Crompton/Kanto/Almonard/Usha/Bajaj/ Orient
18	Steel Conduits	Are make with ISI mark /ISO certification

FOR SIGNING OFFICER

SIGNATURE OF CONTRACTOR

DIRECTORATE OF ELECTRICAL ENGINEERING

INTEGRATED HEADQUARTERS
MINISTRY OF DEFENCE (NAVY)
'D-6' WING, SENA BHAVAN
NEW DELHI - 110011
FAX :-011- 3013213

FAX MESSAGE

TO	M/S CABLE CORPORATION OF INDIA LTD, MUMBAI (ATTN. MR. SK DESHMUKH, MANAGER (SALES))	FAX NO	022-[illegible]
	M/S UNIVERSAL CABLES LTD, NEW DELHI (ATTN. MR. SANDEEP KUMAR, SR. MANAGER (MARKETING))	FAX NO	011-23711501
	M/S KEI INDUSTRIES LTD, NEW DELHI (ATTN. MR. DEEPAK MANCHANDA)	FAX NO	011-23811169
FILE	55/13/NED	DATE	4th FEB 11
TOTAL NO. OF PAGES : ONE			

INFORMATION ON EAB (EB - INDIAN NAVY

1. THE CABLES SUPPLIED TO INDIAN NAVY SHIPYARDS (FOR USE ONBOARD /V SHIPS) ARE REQUIRED TO BE STORED FOR CONSIDERABLE PERIOD (SOMETIMES EXTENDING TO 6-8 YEARS) PRIOR ONBOARD USE. FURTHER, THESE CABLES ARE REQUIRED TO PERFORM SATISFACTORILY FOR 20-25 YEARS DEPENDING UPON THE MAIN SYSTEM.

2. 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.

3. IN VIEW OF THE ABOVE, IT IS REQUESTED THAT DETAILS/ COMMENTS REGARDING FOLLOWING ARE FORWARDED TO HQ MODEN/GEE BY 25 FEB 11: -

(A) RECOMMENDED MAX SHELF LIFE OF CABLE
(B) EXPECTED TOTAL LIFE OF CABLE
(C) RECOMMENDED STORAGE CONDITIONS
(D) STORAGE PERIOD BEYOND WHICH REQUALIFICATION OF CABLES SHOULD BE UNDERTAKEN
(E) RECOMMENDED PROCEDURE FOR REQUALIFICATION OF CABLES

4. REGARDS.

DRAFTED BY — (SS SANDHU) CDR DCE

RELEASED BY — (AMIT PASTOGI) CAPTAIN DCE

DATED:05/04/2013

TO WHOMSOEVER IT MAY CONCERN

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/9012-13/1219 DT. 27.12.2012, PO/9/12-13/1068 DT. 22.01.2013, PO/9/12-13/1537 DT. 07.02.2013, PO/9/12-13/1660 DT. 17.03.2013, PO/9/12-13/1746 DT. 12.03.2013, PO/9/12-13/1905 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:- 90000 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 U40101GJ2003SGC043988
Telephone Nos: 0281-2380425/427/2360182 Fax No: 0281-2360175
Website: www.pgvcl.com E-mail: proc.pgvcl@teol.com

PGVCL/RJT/PROC/PERFORMANCE/ Date:

E-Mail: baroda@kei-ind.com 00 1373 19 AUG 2015

To,
KEI Industries Ltd.
803, Siddharth Complex,
Near Motel Express,
R.C. Dutt Road,
Vadodara - 390007

Sub:- Performance Certificate
Ref :- Your letter No. KEI/139/2015 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/KED/39 dtd. 16.07.12	3Cx70+70	181 KM	181 KM
PGVCL/RJT/Proc/e-58293/11 KV AB Cable/379/KED/39 dtd. 16.07.12	3Cx95+80	10 KM	10 KM
PGVCL/RJT/Proc/e-79981/11 KV AB Cable/524/KED/615 dtd. 16.05.14	3Cx95+80	90 KM	90 KM

This is for your kind information.

I/c Chief Engineer (Material),
PGVCL, Corporate Office, Rajkot.

IRCON INTERNATIONAL LIMITED
Civil, Mechanical, Electrical, Communications and Turnkey 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 PILS type with XLPE Insulated cables, 1.345 Kms of 26 /45 KV Grade 1c x 240 sq.mm, 0.883 Kms of 26 / 30 KV Grade 3c x 400 sq.mm and 2.360 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/500/D/PRC/ELECT/RF-R/HT CABLES/28/0 Dt. 06-06-2008 of Rs. 58,42,795.00 for Delhi Metro Rail Project, Cardinal BE-8.

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 Turnkey 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 PILS Sheathed 9.225 Kms of 3.3 KV Grade 3E 1c x 630 sq.mm and 3.130Kms of 11 KV Grade (E) 3c x 300 sq.mm cables as per IS : 7098 Part-2 on 20-9-2007 against our Purchase Order No. IRCON/ELECT/501/D/PRC/CABLES/38 Dt. 13-7-2007 of Rs. 3,85,75,880.00 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

Tele : 011-23818113
Fax : 011-23818124
E Mail : designgroupcodel-hl@gmail.com

E2 Wing (Design) Sub Div
Directorate of Works
Engineer-in-Chief's Branch
Integrated HQ of MoD(Army)
Kashmir House, Rajaji Marg
New Delhi - 110011

4320/5/CMPTY 5(a) (Ord-2) 30 Jan 2014

Encl-Ch List 'A'
Encl-Ch List 'B'

RENEWAL OF PRODUCT APPROVAL

1. M/s KEI Industries Limited had approached this HQ for renewal of their products i.e. XLPE Cored 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 4320/5/CMPTY(2) (Ord-2) dated 18 Apr 2008 is hereby accorded for use of above mentioned products in Defence Works for a period of Three year ie upto 28 Jan 2017.

3. Further continuation of the products will be decided thereafter, based on the mandatory test back/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 the period of three years.

4. The approval does not absolve the executive/supervisory staff from their responsibility for using sound 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 at the factory and the records of the same maintained.

5. A list 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 sale/supply of approved items to MES Contractors/Formations/Units on six monthly basis as per format given below.

Sl 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 : 011-25818042/44/47/210
Fax : 011-23817025, 23811169
Email : delpdc/kaushik.vats@kei-ind.com
Website : www.kei-ind.com

(Sandeep Kaushik)
Maj
COORD (Des)
for E-in-C

Contact Persons : Mr Deepak Manchanda, GM (HO), (Mob) 09953311020
Mr Puneet Kumar, Asst Manager (Mktg), (Mob) 08812040413
Email : puneet.kumar@kei-ind.com

Copy to:-
M/s KEI Industries Ltd
D-90, Okhla Industrial Area Phase – 1,
New Delhi - 110020

Internal:
15 In DG MAP, E2 (Army), E2 (Navy), E2 (Air), E4, E5, E8, E3W (PPC), CCEs.

1. Please note that six monthly report is expected so as to reach this office on the first Monday of April and October every year. All supply/product will be assessed for the preceding six months in case of non-receipt of report.

2. Further renewal of the fenestration will be decided based on above inputs and feedback received from nominees of the MES units/formations concerned.

सेल अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
दुर्गापुर इस्पात संयंत्र
DURGAPUR STEEL PLANT

DSP/PUR/PO/REGN/99-(1/99) 05.11.99

To,
M/s KEI Industries Limited,
(Ex. Dr. Sandeep Mohan Avenue
(1st Floor,Near Park Circus Ladies Park)
Kolkata-700 014

Sub: Inclusion of KEI cable Cables as approved vendor upto HRCG Grade
Ref: Your applicant vide letter no.KEI/HO/T-T/SAIL/Inclusion/ dt 08.09.99

Dear Sir,

This has reference to your above regarding approval of additional vendor for supply of HT/LT Cables in Expansion Programme of DSP.

DSP/RINCON has examined your request. As KEI is registered with RINCON 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.Mandal)
AGM (MM-PP)
Durgapur Steel Plant

Copy to:
M/s RINCON Ltd, Rinchi-834002 , Kind Attn: Sri Dinesh Kumar

महाराष्ट्र गृहनिर्माण व क्षेत्रविकास प्राधिकरण

म्हाडा
MHADA

No.MR/CE/EE/CA/ /2014
Date:- 31/03/2014

To,
M/S KEI Industries Limited
[illegible]
Vasta Enclave, Andheri Pump House,
Jijamata Road, Andheri (E),
Mumbai-400 093.

Sub :- Approval of your product for use in MHADA Works.
Ref :- Your letter No.KEI/S/MHDT/2013-14, Dated:03/06/2014

Sir,

The following product manufactured by M/S KEI INDUSTRIES LIMITED is here by 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 enlistment is for one year on experimental basis from the date of issue of this letter. However, the MHADA reserves the right to cancel the same.

Kalina Service Bureau, Kalanagar, Bandra (East), Mumbai-400 098.
Phone :-
Fax No. :- Website :-

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 enlistment, 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.

Yours Faithfully

Chief Engineer (CA)
MHADA

To

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

Memo No. 6077 /SR Dated:- 2-7-15

Sub:- Approval of Wires/LT Cables upto 1.1 KV/Aluminium copper cables, HT Cables upto 33 KV & All Cables for use of Haryana Govt. PWD B&R Works.

As approved by the Committee constituted vide Chief Engineer (E&M) Chandigarh letter no. 345 dated 22.05.2015 and meeting held on dated 4-6-2015, the following items manufactured by your firm are allowed to be used in Haryana PWD(B&R) Deptt.

Sr. No.	Name of Item	Brand Name
1	Wires/LT Cables upto 1.1 KV/Aluminium copper cables, HT Cables upto 33 KV & All Cables	KEI

This approval is valid for one year only subject to satisfactory performance of the product and can be reviewed by the approval committee. The department will be at liberty to withdraw the approval at any time without assigning any reason.

CONDITIONS:-

1. The price list/tariffs showing should be sent to the Deptt. Periodically as and when rates are revised by the firm.

2. The approval of ISI marked products shall be valid till the validity of ISI certificate. The firms shall get their ISI certificate renewed from time to time. As soon as the ISI certificate expires the approval of product shall be automatically considered as withdrawn. However approval may be reviewed after submission of renewed ISI certificate.

3. 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. The approval of the product shall be considered automatically withdrawn. New model shall have to be get approved afresh.

4. The firm shall ensure that there is no difference in quality, design, shape between the approved products and the product marketed by the company. In case, any change in quality, design, shape of the product is done, the department should be informed immediately. Further the firm shall maintain the quality of standards of its product range in conformity with the document already submitted, failing to do so will lead to the cancellation of this approval.

5. The firm shall stand warranty to replace every/any items of its product range if found damaged/defective where so ever any needs arises at the inter stages without any condition.

6. The firm shall assist the department on account of genuine trade marking, if any need arises for its confirmation at later stage.

7. The department reserve the right to get any product tested at any time without any information 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 upto the mark, the same shall have to be replaced with the genuine quality of product and the firm/product can be black listed for future.

DA/ Nil

Superintending Engineer
Electrical Circle, PW (B&R) Deptt.,
Karnal

KIND ATTENTION OF C.E.(E&M)

Endst.No. /SR Dated:-

Copy of above is forwarded to the Engineer-in-Chief, Haryana PWD B&R Deptt. Chandigarh for information.

DA/ Nil

Superintending Engineer
Electrical Circle, PW (B&R) Deptt.,
Karnal

Endst.No. /SR Dated:-

Copy of above is forwarded to the Executive Engineer Elect. Divn. PWD B&R Branch Ambala/Gurgaon/Hisar/Karnal/Rohtak for information and necessary action. They should intimate immediately if there is any thing adverse to say regarding working performance of the product.

P.W.D. (B&R), Govt. of Maharashtra,
Mandhalai Bhavan, 2nd floor,
Marzban Road, Fort,
Mumbai-400 001.

Website : www.mahapwd.com
Email : [illegible]
No.CE/ Dm.2 Desk-DM2/M [illegible] /2014

Telephone : (022) 22010419 16/17
Fax : (022) 22010400
Date : 22 [illegible] 2014

To,
M/s. KEI Industries Ltd.
[illegible] Vasta Ship, Vasta
Enclave, Andheri Pump House,
Jijamata Road, Andheri (E),
Mumbai-400 093.

Sub : Approval to use material in works carried out by Government of Maharashtra.
Ref : 1) Your Letter No.MR/MHDT/2013-14 Dated 19.03.2014
2) Dy. Office Letter No. C.E.(Dm.2)/Desk-5/326/2014 Date 23.05.2014
3) Factory Visit Dated 9.6.2014
4) Test Report of MSME Testing Station, Hyderabad - [illegible]
Report No.1) [illegible] Date - [illegible] 2) [illegible] Date - [illegible]

Sir,

The subject proposal submitted by you was examined by this office and now the undersigned is pleased to accord approval to the following materials for using in works carried out by Government of Maharashtra W.E.F. the date of issue of this letter.

Name of material : " Wires & Cables "
Place of manufacture : EP-420, Phase-III, RIICO Industrial Area, Bhiwadi, Dist - Alwar(Rajasthan) 301019
Brand Name : "KEI"
Technical Specifications of the Materials :

Sr.No.	Name of Product	Validity
1	PVC insulated Wires & Cables for working voltage upto and including 1100V	Up to 07 August 2017
2	Crosslinked polyethylene insulated PVC sheathed cables - Part 1 for working voltage upto and including 1100V	
3	Crosslinked polyethylene insulated PVC sheathed cables - Part 2 for working voltage from 3.3 kV upto and including 33kV	

Manufactured as per IS No. : For item No. For item No 1) IS : 694-1990, 2) IS : 7098 (Part 1) : 1988 IS : 1554(Part 1) : 1988 For item No 3) IS 7098 (Part 2) : 1985 - IS 1554 (Part 2)
Whether having ISI No. : Yes
License No. : Nil Validity : Nil
Whether covered by Hallmarking Scheme : N.A.
Manufacturing Certificate No. : N.A.
Validity : N.A.
Authority to issue MC : N.A.

The above approval given subject to the performance of the material during this period remains satisfactory. In case of unsatisfactory performance, the approval accorded shall be withdrawn forthwith.

Yours faithfully,

(S.A.Patil)
Chief Engineer (Elec.)
P.W.Deptt., MUMBAI-1.

Copy forwarded to Superintending Engineer Regional Elec. Circle MUMBAI / PUNE / AURANGABAD / NAGPUR / AMRAVATI / NASHIK for information.

VANDANA GLOBAL LTD.

Industrial Growth Centre, Phase-II, Sitapura, Jaipur-302 [illegible] (R.J.)
Phone No. : 0141-[illegible], 407030, 407159
Fax: 0141-2840243, 407303
E-mail: vgpurchase@vandanaglobal.com

PURCHASE ORDER

VENDOR DETAILS
M/S KEI INDUSTRIES LTD
D-90

DETAILS
PLANT : TXT Dadra Unit
PO NO. : [illegible] DT : [illegible]
ARE NO. : 0
TEZ NO. : 0
P.R.NO. : [illegible] DT : [illegible]
DIFFER NO. :
GRNO : DT
CSO PERSON : Jaipur P.O.
PRINT DATE & TIME : [illegible]

With reference to Verbal/telephonic discussions we the Kamal Chowdhry hat with you we are pleased to place our order on you for the following as per terms & conditions mentioned below.

SL	CODE	DESCRIPTION	QTY	UOM	RATE	NET VALUE
01		AGAD 95GMM (3PT) 1.1 KV LT POWER CABLE-ISI-GOP	400	M	BASIC PRICE 250.00	93,000.00
MAKE-KEI INDUSTRIES						
					Basic Price 170,000.00 Discount % 70.00 119,000.00 Excise duty 12.00 % 14,280.00	4,732.00
02		4CX4X95MM (3PT + 1X4LT) POWER CABLE-ISI-GOP	250	M	BASIC PRICE 350.00	87,500.00
MAKE-KEI INDUSTRIES						
					Basic Price 175,000.00 Discount % 70.00 122,500.00 Excise duty 12.00 % 14,700.00	3,500.00
03		4CX4X185MM (3PT + 1X4LT) POWER CABLE-ISI-GOP	200	M	BASIC PRICE 400.00	80,000.00
MAKE-KEI INDUSTRIES						
					Basic Price 180,000.00 Discount % 70.00 126,000.00 Excise duty 12.00 % 15,120.00	4,000.00
04		4CX4X50MM (3PT + 1X4LT) POWER CABLE-ISI-GOP	200	M	BASIC PRICE 84.00	16,800.00
MAKE-KEI INDUSTRIES						
					Basic Price 168,000.00 Discount % 70.00 117,600.00 Excise duty 12.00 % 14,112.00	3,360.00
05		4CX4X95MM (3PT + 1X4LT) POWER CABLE-ISI-GOP	200	M	BASIC PRICE 1,20.00	24,000.00
MAKE-KEI INDUSTRIES						
					Basic Price 240,000.00 Discount % 70.00 168,000.00 Excise duty 12.00 % 20,160.00	4,800.00

For Vandana Global Ltd.

Prepared by Authorised Signatory

Head Office: Vandana Bhawan, M.I. Road, Jaipur-302001 Phone No. 0141-2528000, 4021111 & Fax 0141-2528004, 4000401

PO NO. : [illegible] DT : 10.02.2014

	TOTAL	[illegible]

In Words : Rupees Two Lakh Eighty Eight Thousand Two Hundred Twenty and Twenty Five Paise ONLY

TERMS & CONDITIONS

1. Price Basis : Ex-Works
2. Delivery Due On : [illegible]
3. Freight : Extra/Extra
4. Mode of Despatch : YOUR SCOPE
5. Insurance : Not Applicable
6. Order Validity : ONE Months
7. Order Validity Date : 28.03.2014
8. Assignment : At VOL Others Factor Assignment will be Final
9. Analysis/Quality Test : Inspection Report of VOL will be FINAL
10. Penalty : Not Applicable
11. Payment Terms : 25% ADVANCE & BALANCE AGAINST P.I.
12. Guarantee : FREE REPLACEMENT AGAINST MANUFACTURING DEFECTS
13. Specific conditions : EXCISE EXTRA COTTHL AGAINST C FORM
14. Dealer Details : Kindly Provide Dealer details in BIL
15. Billing : All bills are to be sent to VGL, Works only
16. Documents Enclosed : 01 NO LAMINCOLRED Printed overleaf
17. Billing Address : Purchase Department, VANDANA GLOBAL LTD, SILTARA
18. **Dealer details and invoice** : You are required to submit duplicate invoice in Triplicate with all the details of P.O. material, any bill failing which material will not be accepted

BILL TAX DETAILS

CST No.	1055/551 R/5	DATE	: 15.10.80
CSF No.	1055/551 F/C	DATE	: 15.10.80
EXC. RANGE	E Cat Lists, RAIPUR(C.G)		
ECC No.	RAC/DC/BE/M 80		
DIVISION	Div Lists, RAIPUR(C.G)	COMMISSIONERATE	: RAIPUR(C.G)
TIN No.	22210810		

For Vandana Global Ltd.

Prepared by Authorised Signatory

Head Office: Vandana Bhawan, M.I. Road, Jaipur-302001 Phone No. 0141-2528000, 4021111 & Fax 0141-2528004, 4000401

BAJAJ BUSINESS PARK
(S.O. ROAD)
Purchase Order

avinash

Business Unit: AVINASH DEVELOPERS PVT. LTD. HO - RAIPUR

PO No. : [illegible]
Procurement PC Doc No.
Order Date : [illegible]
Quotation No.
Quotation Date
Remarks
Mode of Transport : By Road
Delivery Address
Contact Person
Contact Number
Delivery Date : [illegible]
Vendor Phone : [illegible]
Fax : [illegible]

Please supply the following items in accordance with your Quotation and subject to following terms and conditions

#	Item Code	Description	Unit	Quantity	Rate	Amount (Value) Inc Tax	Delivery Dt
1	[illegible]	PVC INSULATED COPPER FR CABLE 1 CORE BLACK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	PVC INSULATED COPPER FR CABLE 1 CORE RED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	PVC INSULATED COPPER FR CABLE 1 CORE YELLOW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	PVC INSULATED COPPER FR CABLE 1 CORE BLUE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	PVC INSULATED COPPER FR CABLE 1 CORE BLUE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	PVC INSULATED COPPER FR CABLE 1 CORE GREEN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	PVC INSULATED COPPER FR CABLE 1 CORE RED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	PVC INSULATED COPPER FR CABLE 1 CORE YELLOW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	PVC INSULATED COPPER FR CABLE 1 CORE GREY	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	PVC INSULATED COPPER FR CABLE 2 CORE BLACK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	PVC INSULATED COPPER FR CABLE 2 CORE GREEN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	PVC INSULATED COPPER FR CABLE 2 CORE RED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	PVC INSULATED COPPER FR CABLE 2 CORE BLACK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	PVC INSULATED COPPER FR CABLE 2 CORE RED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	PVC INSULATED COPPER FR CABLE 2 CORE BLACK	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	PVC INSULATED COPPER FR CABLE 2 CORE RED	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Rupees Million Forty Nine Thousand Three Hundred Twelve Only — Total Order Value — [illegible]

For AVINASH DEVELOPERS PVT. LTD.

Authorised Signatory

THIS PURCHASE ORDER IS SUBJECT TO JURISDICTION OF THE RAIPUR HIGH COURT ONLY

Remarks: Please Quote Order No. Item Code no. of Material Contents

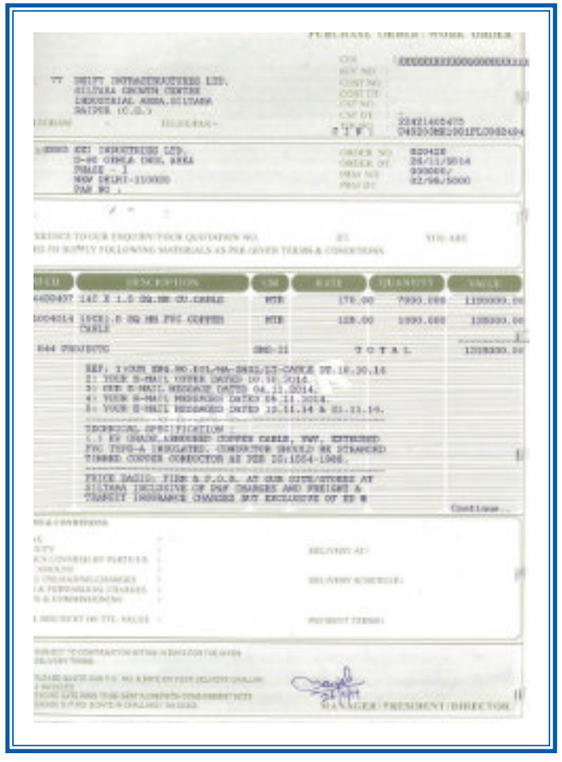
Contact

AVINASH DEVELOPERS PVT. LTD.

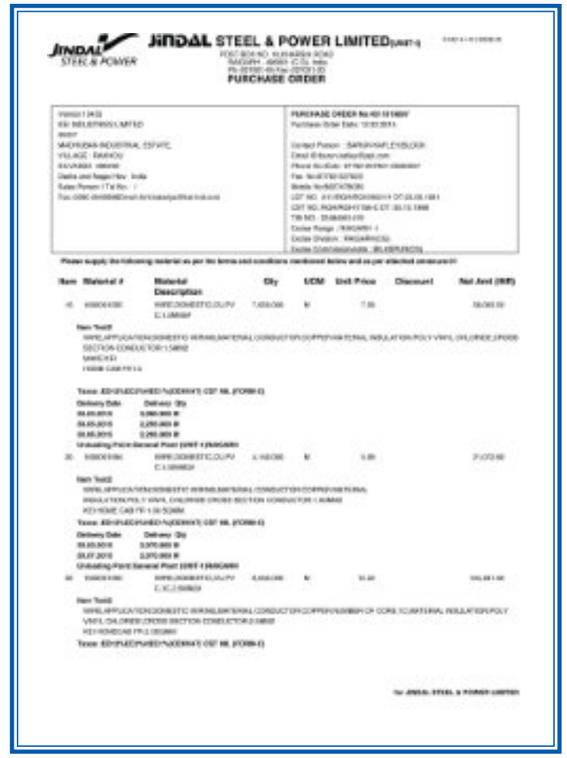
Purchase Order

PURCHASE ORDER

PURCHASE ORDER



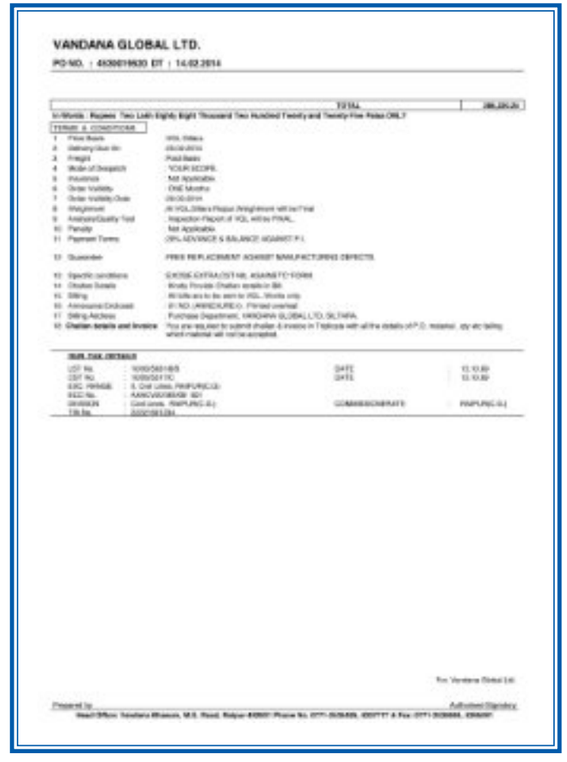
PURCHASE ORDER



JINDAL STEEL & POWER LIMITED

PURCHASE ORDER

JINDAL STEEL & POWER



VANDANA GLOBAL LTD.

PO NO. : 4500019930 DT : 14.02.2014

Larsen & Toubro Limited, Construction.

JAYASWAL NECO INDUSTRIES LIMITED
(MINING DIVISION)

City office: Village :- Bamhaira, Near at Bagarasha, P.O. - Hilapara
Raigarh - 496 001 (C.G.)
Telephone. No. 0910/540801, Fax : 07762 - 232958

Ref: JNIL/PURCHASE
Date: 18.11.2013

M/s. KEI Industries Ltd.
Dr. Anand Sharma
P.O. Shankar Nagar,
RAIPUR (C.G.) 492 007
Ph.No. 9926123445

Sub: Letter of Intent for supply of Mining Cable
Ref: Your e-mail offer dtd 11th October 2013

Dear Sirs,

With reference to the above and subsequent discussions we had with you, we are pleased to place our Letter of Intent on you for supply of following items as per the rates, terms and conditions mutually agreed

S.No	Item description	Qty	Rate/unit	Total value
1	3Cx35sq mm PVC Copper Conductor cable 3.3KV grade, double flexed wire armoured , DGMS approved.	500 Mtrs	3085.00	5,22,500.00
2	3Cx25sq mm PVC Copper Conductor cable 3.3KV grade, double flexed wire armoured , DGMS approved.	1000 Mtrs.	365.00	3,65,000.00
	Total basic value			16,87,500.00
	Excise duty @ 12.36%			1,34,415.00
	CST @ 2%			32,318.15
	Total value			22,54,233.15

Terms & Conditions

a) Price basis : F.O.R. JNIL Mines site, Banjhihol (Raigarh, C.G.)
b) Excise duty : As above (Pls submit CENVAT documents alongside materials)
c) Sales Tax : As above.
d) Delivery : Within 4-6 weeks (as early as possible)
e) Freight : Inclusive
f) Payment : 10% adv. Bal. 90% against P.O. on submission of proof of dispatch
g) Tolerance : Qty. tolerance +/-5% acceptable
h) Guarantee/Warranty : Std. Clause applicable

Contd. 2

Site Village - Banjhihol, Tehsil - Dhanjgawan, Dist- Raigarh (C.G)

JAYASWAL NECO INDUSTRIES LIMITED
(MINING DIVISION)

City office: Village :- Bamhaira, Near at Bagarasha, P.O. - Hilapara
Raigarh - 496 001 (C.G.)
Telephone. No. 0910/540801, Fax : 07762 - 232958

2

Please treat this LOI as our Purchase order for supply of above items and arrange to deliver the materials as per the schedule given in this order. Our formal purchase order confirming all terms & conditions will be sent to you shortly.

Please acknowledge receipt.

Thanking you

Yours faithfully,
For JAYASWAL NECO INDUSTRIES LTD(CMD)

M.Mishra
AGM(Purchase & Stores)

Site Village - Banjhihol, Tehsil - Dhanjgawan, Dist- Raigarh (C.G)

R.K.M POWERGEN PVT. LTD.
Old No.48 & New No. 14, Dr. Girinagar Road, T.Nagar, Chennai - 600 017
Phone : * 91 - 44 - 2815 8242 Fax: 2815 8243
E-Mail : rkmpowergen@gmail.com
Chennai TIN No : 33980562782

PURCHASE ORDER

PO No. : 102869 — Dated: 14/12/2014

Supplier Details: M/s.Kei Industries Ltd., 99,G.T. Bombaiwala Industrial Estate, Mahaveli, Chennai-600100, Mr. Ravi Kumar, Mob-9926123445, Tin No.33980562130

Subject No.: Tree Lighting Projects

Your offer reference: Email quotation

Destination	Mode of Dispatch	Delivery Schedule	Inspection
Our Site	By Road	Prior Call Before Dlvl Balance Within 10Days	As IS/IEC/PL

Sl. No.	Item Description	UOM	Quantity	Unit Rate In Rs.	Amount In Rs.
1	3 core 1.5 sqmm 1.1KV XLPE insulated multi strand armoured copper cable	Mtrs	15,000.00	45.00	15,00,000.00
	Total Amount In Rs.				15,00,000.00

Tax & Duties

Discount	Loading/Amount	ED	CST	P & F	Insurance	Freight
Included	4.12%	Extra @ 12.36%	2% Against C Form	NIL	Your Scope	9100.0 Lump

Terms & Conditions

1. Invoice to be raised in Triplicate and copy of Invoice along with Material Test Certificate (MTC) to be sent to Chennai/Hyd. & one copy of invoice only will be sent along with material.
2. Payment Terms: 10% Advance Balance 90% Payment proof of Despatch/Advance mail, 0% against delivery within 10 days.
3. LD for delay in supply will be 1% of total order value per week subject to maximum of 10% of the total order value for the undelivered portion.
4. Note: As per your given date DTP please dispatch the materials only.
5. General Terms & Conditions are attached as 101012/1.doc.
6. Material should be supplied as given dimensions, Grade and Type. Invoices Found after supply the same Shall have to be replaced by supplier at free of cost.
7. Site Office Contact No: Mr.Sathyanarayan - 9572366356.
8. Head Office Contact - Purchase department - 044-28150242 Email: purchase.rkm@rkmpowergen.in

Billing & Delivery Address:
R.K.M POWERGEN PVT. LTD.,
Cuttalam Village,
Revenue Division & Mandal,
Taluk - Madna, Jangir Champa - Dist,
Chhattisgarh - 495 450.
TIN No. 33971570308

For R.K.M POWERGEN PVT. LTD.

VANDANA GLOBAL LTD.
Industrial Growth Centre, Phase-II, Sitarm, Raipur-492 099 (C.G.)
Phone No. 07771-[illegible], 407755, 407756
Fax: 07771-[illegible], 407755
E-mail: vgbpurchase@vandanaglobal.com

PURCHASE ORDER

VENDOR DETAILS: 14446, KEI INDUSTRIES LTD, D-90, NEW DELHI-110020, DELHI, CONTACT : KARTARYA, TELEPHONE : 01-[illegible], FAX : 01-[illegible], EMAIL : [illegible]

INFORMATION: PLANT : Tarra Bhata; PO NO. : 4500[illegible] DT 10.01.2014; ENQ NO. : 0 DT 10.01.2014; TEC NO. : PNP-[illegible]; P.R.NO. : 3[illegible] DT 10.01.2014; ORDER NO. : ; ON NO. : DT ; QUOTN REF : ; PRINT DATE & TIME : 10.01.2014 / 13:26:07

With reference to Verbal/telephonic discussions we Mr. Sanjay Chandra mail with you we are pleased to place our order on you for the following as per terms & conditions mentioned below.

SL.	CODE	DESCRIPTION	QTY	UOM	RATE	NET VALUE
01		Cable (E.A. XPLE ISO 50.MKV 3X1.5	100	M	BASIC PRICE 880.75	110,175.00
HSN/SAC: 2442 (4 Digit)						
SERVICE : 4EA					Basic Price 110,175.00; Excise duty 12.360 % 21,880.80	21,880.80
02		Cable (E.A. XLPE MKV X 3 C	1,750	M	BASIC PRICE 32.60	1,85,185.00
Drum : 450Mtrs - HSN/SAC : 1300 (Mtrs)						
SERVICE : 4EA					Basic Price 185,185.00; Excise duty 12.360 % 22,871.17	22,871.17
03		Cable (E.A. XLPE MKV X 3 C	100	M	BASIC PRICE 88.70	8,870.00
Drum : 250Mtrs (1.5MM - 4MM)						
SERVICE : 4EA					Basic Price 8,870.00; Excise duty 12.360 % 1,096.64	1,096.64
04		Cable Copper. Ar 3.3 (0.6/1KV x 3 X 2	100	M	BASIC PRICE 51.50	5,150.00
Drum : 500 Mtrs - HSN/SAC : 1300 (Mtrs)						
SERVICE : 4EA					Basic Price 5,150.00; Excise duty 12.360 % 636.54	636.54
05		Cable (E.A. Ar 3.3(0.6/1 x 2 x 1)	100	M	BASIC PRICE 111.80	11,180.00
HSN/SAC : 1300 (Mtrs)						
SERVICE : 4EA					Basic Price 11,180.00; Excise duty 12.360 % 1,382.00	1,382.00
06		Cable Copper. Ar 3.3 x 1.5 (0.6/1KV	5,140	M	BASIC PRICE 70.00	359,800.00
Drum : 1000 Mtrs - HSN/SAC : 8544 (Mtrs)						
SERVICE : 4EA						

For Vandana Global Ltd.

Prepared by: Authorised Signatory

Head Office: Vandana Mansion, M.G. Road, Raipur-492001 Phone No. 0771-2636400, 4207777 & Fax: 0771-2636464, 4207070

Page 1 of 2

कार्यालय अधीक्षण अभियंता
परियोजना क्रियान्वयन इकाई, सीव निर्माण विभाग, बिलासपुर
कुलीन ठाठ, अंबेत रिंग, गोरखा जनपद अनुमोदन विभाग समिति

क्रमांक 2440 /W/Appl./PROJAM/KEI/23/15-16 गोरखा दिनांक 27/7/15

विद्युत सम्बन्धी अनुमोदन आदेश

श्री मान्यवर महोदय के विद्युत कार्यों हेतु सीव निर्माण विभाग में प्रचलित विद्युत नमूना आ. को कि दिनांक 01-08-2014 में प्रस्तावित है, के आधार पर एवं विशिष्ट सुविधाओं के आधार पर **M/s KEI Industries Ltd. D-90, Okhla Industrial Area Phase-I New Delhi** द्वारा उत्पादित विद्युत सम्बन्धी विभाग का **"KEI"** व्यावसायिक चिह्न अंकित से ऐसे **HT ,LT ,XLPE ,PVC , Submersible Cables & Wires** जो प्रचलन व्यवस्था अनुमोदन विभाग समिति के अनुसार पत्र द्वारा विभाग में स्थित समिति की अनुशंसा उपरान्त उपयोग हेतु अनुमोदन किया जाता है :

अनुमोदन किए गए की अवधि पत्र होगा :-

1- विद्युत सम्बन्धी की सामग्रियों आवश्यक अथवा अन्य कोई विभागीय कार्य होंगे वे भी अनुमोदन विभाग किया जा सकता है ।
2- यह अनुमोदन जारी होने के दिनांक से **तीन वर्ष** या उत्पादों की आई.एस.आई. प्रमाण-पत्रों की वैधता जो पहले हो, तक मान्य होगा । इसके नवीनीकरण के लिए विभाग के पास पत्र पूर्व आवेदन करना होगा ।
3- समय-समय पर संशोधन निरस्त/संशोधित/प्रस्तावित अवधि तक भी परिवर्तित होते हैं, इस अनुमोदन को प्रत्यक्ष करना होगा ।
4- प्रति वर्ष प्रमाण पत्रों का अनुमोदन विभाग करने हेतु विभाग के पास अविलम्ब सुपुर्द करें ।
5- यह अनुमोदन मानवीय मापन त्रुटि द्वारा जारी प्रमाणित विद्युत सम्बन्धी का संशोधित नवीनीकरण होने पर ही मान्य होगा। नवीनीकरण के प्रस्ताव प्रमाण-पत्रों की अवधि द्वारा समाप्त की प्रस्तुत करेंगे । अनुमोदित प्रमाणित सामग्री का आई.एस.आई. चिह्न अंकित होना चाहिए।

भवदीय– उपरान्त अनुमोदन विभाग समिति ।

राजकिशोर (डी/ए)
परियोजना क्रियान्वयन इकाई,
सीव निर्माण विभाग, बिलासपुर
कुलीन ठाठ, गोरखा

पृष्ठांकन क्रमांक 2441 /W/Appl./PROJAM/KEI/23/15-16 गोरखा दिनांक 27/7/15

प्रतिलिपि:-
1- **M/s KEI Industries Ltd. D-90, Okhla Industrial Area Phase-I New Delhi** को उपरोक्त द्वारा प्रस्तुत पत्र के दिनांक 20-08-14 के संदर्भ में सूचनार्थ ।
2- अधीक्षण अभियंता कार्यालय, सीव निर्माण विभाग, डी.आई.जी.मंडल, इंदौर, उपयुक्त महोदय (सीव, सागर) की ओर सूचनार्थ ।
3- अधिशासी अभियंता सीव, अंबिकापुर डी.आई.जी. ----------
4- समस्त अधिशासी अभियंता सीव निर्माण विभाग डी/ए/डी संभाग क्रमांक-1,2 गोरखा /इंदौर /उज्जैन / भोपाल/रायसेन /सिंगरौली /सिंगरौली डी/ए/डी संभाग इंदौर, अभियंता प्रशासन गोरखा की ओर सूचनार्थ प्रेषित। कृपया अपने अधीनस्थ समस्त डी/ए/डी उपमण्डल कार्यालयों को सूचित करें ।

भवदीय– उपरान्त अनुमोदन विभाग समिति ।

राजकिशोर (डी/ए)
परियोजना क्रियान्वयन इकाई,
सीव निर्माण विभाग, बिलासपुर
कुलीन ठाठ, गोरखा

FIU APPROVAL

कार्यालय अधीक्षण अभियंता
परियोजना क्रियान्वयन इकाई, सीव निर्माण विभाग, बिलासपुर
कुलीन ठाठ, अंबेत रिंग, गोरखा जनपद अनुमोदन विभाग समिति

क्रमांक अंकित क्रमांक 2440 /W/Appl./PROJAM/KEI/23/15-16 गोरखा दिनांक 27/7/15

क्र. क्र.	निर्माता का नाम तथा पता	व्यावसायिक चिह्न	अनुमोदित पत्र की संक्षिप्त विशेषताएं	आदेश क्रमांक	मानकीकरण द्वारा प्रदत्त अनुमोदन क्रमांक	टिप्पणी
1	2	3	4	5	6	7
1	M/s KEI Industries Ltd. D-90, Okhla Industrial Area Phase-I, New Delhi	"KEI"	HT,LT,XLPE, PVC Submersible Cables & Wires	IS:694:1990 IS:1554 Pt.1 : 1988	CM/L-[illegible] CM/L-[illegible]	जो अनुमोदन जारी होने के दिनांक से तीन वर्ष तक मान्य होगा ।

अधीक्षण अभियंता (डी/ए)
परियोजना क्रियान्वयन इकाई,
सीव निर्माण विभाग, बिलासपुर
कुलीन ठाठ, गोरखा

FIU APPROVAL

भारत सरकार
मुख्य इंजीनियर के कार्यालय (एस.ई.जेड.) दक्षिण
केंद्रीय लोक निर्माण विभाग
चेन्नई, तमिल नाडु, चेन्नई-600 005
Phone: 044-28380000 Fax 044-28380100,
E-mail ID: cpwdzone@nic.co.in

GOVERNMENT OF INDIA
OFFICE OF THE C.E.(SZ)-IV
CENTRAL PUBLIC WORKS DEPARTMENT
G WING, III FLOOR, RAJAJI SALAI
SHANT NAGAR, CHENNAI-96
Phone: 044-28380000 Fax 044-28380100
E-mail ID: cpwdzone@nic.co.in

No. 5903/CE(SZ)IV/2014/ [illegible] Dated 6/11/2014

OFFICE MEMORANDUM

Sub: Approval for brands for inclusion in XIT/Tenders.

Chief Engineer, SZ(IV), CPWD, Chennai has approved the following **Wires & Cables** manufactured by **M/s KEI Industries Limited, D-90, Okhla Industrial Area, Phase-I, New Delhi-110020** for use in Electrical Divisions falling under the control of Southern Zone-IV.

S.No.	Description Of Items	Brand of the product
1.	LT/HT Cables	KEI
2.	PVC insulated wires	KEI
3.	Control Cables	KEI

4). The above products are approved for a period of Two Years from the date of issue of this order which may be renewed after two years.

5). SE(E)'s, EE,s & AE,s are required to incorporate the above brands along with the already approved other brands in the list of preferred makes in the NITs approved by them.

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

G. Sahasranamam
Executive Engineer (EQ)

Copy to:
1). All SE(E)'s under this zone for circulation among field units.
2). M/s KEI Industries Limited, D-90, Okhla Industrial Area, Phase-I, New Delhi-110020.

Executive Engineer (EQ)

DHBVN
DAKSHIN HARYANA BIJLI VITRAN NIGAM
Chief Engineer / PSDC
Vidyut Sadan, Vidyut Nagar, DHBVN, Hisar
Ph.: 01662 - 223327 FAX: 01662 - 223326
E-mail : cepsdcdhbvn@gmail.com

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

Fax: 011-2681 7201,
2681 1009
Email: [illegible]

Memo no.- [illegible] Dated: 27.02.2015

Subject:- **Empanelment as approved vendor for supply of various size of cables**

Please refer to your request dated 23.01.2015 for empanelment as approved vendor of various size of cables in this regard. It is intimated that your firm M/s KEI Industries Ltd., D-90, Okhla Industrial Area, Phase-1, New Delhi-110020 has been considered for empanelment as approved vendor to supply following Rating/sizes of XLPE cables:-

1. 33kV, 3 Core-from 95 sq mm to 300 sq mm
2. 11kV, 3 Core- from 35 sq mm to 300 sq mm
3. 11kV, 3 Core- 50 sq mm
4. LT cables of sizes 3.5 core 95 sq mm, 3.5 core 120 sq mm, 3.5 core 150sq mm, 3.5 core 185 sq mm, 3.5 core 240 sq mm, 3.5 core 300 sq mm, 4 Core 16 sq mm and 3 core 6 sq mm

However, LT cables of all other sizes are also considering for empanelment subject to condition of submission of valid type test of respective size of LT cable at the time of inspection.

The cables of above mentioned Rating/sizes are empaneled in DHBVN against turnkey work of the Nigam, subject to compliance of the following conditions:-

1. The material supplied should be in line with the approved DTPs / technical specification of the Nigam and any default on this account may lead to your de-empanelment.
2. The supplied material if rejected twice by inspecting officer of the Nigam / third party inspecting agency on account of poor quality / sub standard material would lead to De-empanelment of the firm with immediate effect and without any notice.
3. The inspecting officer should be provided with all T&P, measuring instrument/ 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.

However, your empanelment as approved vendor will be with immediate effect and remain valid up to 31.03.2015.

This is for your information please.

Chief Engineer/PSDC
DHBVN, Hisar

Copy:
1. SPS to Director/Projects, DHBVN, Hisar for kind information of the Director, please
2. CAPO/DC, UHBVN, Panchkula for kind information please
3. CAO, New delhi, DHBVN, Hisar for kind information please
4. Chief Engineer/DP, DHBVN, Hisar/Delhi
5. Chief Engineer/HR, DHBVN, Hisar
6. All SE's/ CP under DHBVN
7. All Xen's, DHBVN, Hisar
8. All SE's under CAPO/DC
9. XEN/T, DHBVN, Hisar

GETCO
GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED

Regd. Office: Sardar Patel Vidyut Bhavan, Race Course, VADODARA – 390 007
Corporate Identity No. U40100GJ1999SGC036018
Telephone No.(0265)2310582/83/84/85,(0)2327482, Fax no. 2338068 (D)
Fax- Control room:2337918/2338164
Website: www.getcogujarat.com, email:ceprojects.getco@gebmail.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 29.11.2014

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 :

1. **66KV XLPE Cable upto 630 Sq. mm.**

The above approval is subject to the following conditions.

1. The registration shall /be applicable to GUJARAT ENERGY TRANSMISSION CORPORATION LIMITED only.
2. 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.
3. The registration will not apply to any of your branches / offices.
4. The registration on the approved list does not guarantee the award of contracts,

Contd.

-- 2 --

M.P.HOUSING & INFRASTRUCTURE DEVELOPMENT BOARD
PARYAWAS BHAWAN MOTHER TERASA MARG, BHOPAL

Circular No. 38/14 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.,D-90,Okhla Industrial Area, Phase -1,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. /1563 /MPHB/ Bhopal, Dt. 25/7/14

1. The Addl. Housing Commissioner, M.P.H.& I. Dev. Board , H.O. Bhopal.
2. The Dy. Housing Commissioner, M.P.H.& I. Dev. Board , H.O. Bhopal.
3. The Chief Account Officer / Chief Audit Officer / Chief Architect, M.P.H.& I. Dev. Board , H.O. Bhopal
4. The Dy. Housing Commissioner, M.P.H.& I. Dev. Board , Circle 1 / 2 / 3, Bhopal / Indore / Gwalior / Ujjain / Jabalpur / Rewa / Elec.
5. 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 / Chhatarpur / CGR Cell, (HO), Bhopal
6. The Executive Engineer,(Elec.)M.P.H.& I. Dev. Board Dn. Bhopal/ Sagar project/Indore/Jabalpur.
7. 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
श्रम एवं रोजगार मंत्रालय MINISTRY OF LABOUR & EMPLOYMENT
खान सुरक्षा महानिदेशालय DIRECTORATE GENERAL OF MINES SAFETY
विद्युत अंचल ELECTRICAL CIRCLE
दक्षिण मध्य क्षेत्र, हैदराबाद SOUTH CENTRAL ZONE, HYDERABAD
CGO Towers, 7th Floor, Kavadiguda, Secunderabad-500080
Telephone: [illegible]

सं. [illegible] 240 हैदराबाद, दिनांक 27th January, 201

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 1.1K V, 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 PT-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.2873-76/EHQ, dated 12-9-2012 & Extension of Field Trial permission vide HO letter No. 79 dated 13.01.2015.

महोदय,

The permission under reference has been extended up to 12.09.2013 vide above cited reference. The field performance report was already submitted to Head Quarters with reference to the above permission issued originally.

The present lot of cable to be subjected under field trial shall be fully incompliance 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.

i) the name of the mine where the equipment has been installed for field trial purpose;
ii) its date of installation and
iii) purpose for which it is being used.

भवदीय/Yours faithfully,

(जी. एल. कांता राव) / G.L. Kanta Rao
खान सुरक्षा निदेशक (विद्युत) /Director of Mines Safety(Elect.)
दक्षिण मध्य क्षेत्र, हैदराबाद /South Central Zone, Hyderabad
/kvs

Tele: 0181 2681587

Headquarters
Chief Engineer Jalandhar Zone
Military Engineer Services
Jalandhar Cantt-144005

40019/ 626 /E4 Jun 2013

Headquarter
Commander Works Engineers
Jalandhar Cantt

Headquarter
Commander Works Engineers
Amritsar Cantt

Headquarter
Commander Works Engineers
Ferozepur Cantt

APPROVAL OF PRODUCTs

1. 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 KEI/MKTG/2012-13/ dated 15.05.2013.

2. 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.

3. 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.

4. The approval does not absolve the executive/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 as laid down and the records for the same maintained.

5. 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-1,
New Delhi -110020

(A R [illegible])
AAD E/M
For Chief Engineer

Copy to:

M/S KEI Industries Limited
D-90, Okhla Industrial Area,
Phase-1,
New Delhi -110020

Division IV(O&M), Vidhyut Bhavan, 3rd Floor,
Aquem-Margao-Goa.

Tel/Fax :- 0832-2735406 E-mail:- [illegible]@gmail.com

No. EE-IV(O&M)/Tech-Tender 09(11)/ 6672/11-12 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.
Tender No.:-	09(11)
Ref:-	1. Your offer No. KEI/MUM/Q-0666/2011-12 dtd 18.08.2011.
	2. Your financial offer No. KEI/MUM/Q-0666/2011-12 dtd 18.08.2011
	3. Y.L. No. MUM/KEI/Q-0666/1/2011 dtd 30.09.2011.
	4. EE-IV(O&M)/Tech-Tender 09(11)/5530/11-12 dtd 14.11.2011.
	5. Y.L. dtd 27.11.2011.
	6. 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 ₹ 2,420/- per metre 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,

(i) 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 (E)-A/2015/3793 Dated: 6/5/15

Sub: **Approval of "KEI" brand ISI marked Cables/Wires (upto 220 KV Voltage level) i.e. Flexible Wires, Flat Cables, Instrumentation Cables/Singnal Cables, Rubber Cables, Aerial Bunched Cables, LT & HT Cables for use on electrical works of HUDA.**

Ref.: Your letter Ref. No. KEI-[illegible]/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:-

1.) The approval of IS/ISO marked products shall be valid till the validity of IS/ISO certificate. The firm shall get their IS/ISO certificate renewed from time to time. As soon as the IS/ISO certificate expires, the approval of above mentioned product shall be automatically considered as withdrawn.
2.) 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 afresh.
3.) This approval can be withdrawn at any time without assigning any cause.
4.) 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.
5.) The firm shall stand a warranty to replace everyday 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 condition and without any liability on our part.
6.) The firm shall assist the department on account of genuine trade marking, if any need arises for its confirmation at later stage.
7.) The price list/literature/drawings should be sent to the department periodically as and when revised by the firm.
8.) The department reserve the rights to get any product tested at any time without any information 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.

Executive Engineer(E),
For Chief Engineer, HUDA,
Panchkula.

C.C. to:- The Executive Engineer, Elect. Division, HUDA Panchkula/ Hisar/ Faridabad/ Rohtak/ Gurgaon for information & necessary action. They shall intimate immediately if there is anything adverse in any regarding working performance etc. of this product.

स्पीड पोस्ट

[illegible]
भारत सरकार/Government of India
श्रम एवं रोजगार मंत्रालय
Ministry of Labour & Employment
खान सुरक्षा महानिदेशालय
Directorate General of Mines Safety

संख्या [illegible] धनबाद, दिनांक 28-11-2014

प्रेषक :
खान सुरक्षा महानिदेशक
खान सुरक्षा महानिदेशालय
धनबाद - 826 016.

सेवा में
श्री [illegible] - [illegible]
मेसर्स के.ई.आई. इंडस्ट्रीज लिमिटेड
डी-90, ओखला इंडस्ट्रियल एरिया
फेज-1, नई दिल्ली-110 020.

विषय : [illegible] - [illegible] मेसर्स के.ई.आई. इंडस्ट्रीज लिमिटेड, नई दिल्ली-110 020.

महोदय,

उपरोक्त विषय में [illegible] अनुमति पत्र अग्रेषित किया जाता है ।

भवदीय,
[illegible]
खान सुरक्षा महानिदेशक

[illegible]

STEEL AUTHORITY OF INDIA LTD.
ALLOY STEELS PLANT, DURGAPUR

MATERIALS MANAGEMENT DEPARTMENT

Tel : 0343-2545301 Fax : 0343-2545301

E-mail : [illegible]@gmail.com
Website: www.[illegible]

Ref : ASP/MM/[illegible] Date : [illegible]

To,
KEI Industries Ltd.,
D-90 Okhla Industrial Area,
Phase-I, New Delhi-110020.

Sub: 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.

Encl : 1 as Registration Certificate

S Singhal
Asst.General Manager (MM/P-SS)
For General Manager (MM)

भारत सरकार
श्रम एवं रोजगार मंत्रालय
खान सुरक्षा महानिदेशालय
विद्युत सुरक्षालय : धनबाद

संख्या 401/153 दिनांक 04-11-2014

प्रेषक :
खान सुरक्षा महानिदेशक
खान सुरक्षा महानिदेशालय
धनबाद-826 016.

सेवा में
मेसर्स के०इ०आई० इंडस्ट्रिज लिमिटेड
डी-90, ओखला इंडस्ट्रियल एरिया
फेज-1, नई दिल्ली-110 020.

स्पीड पोस्ट

विषय : 1.1 केवी, 35 वर्ग मिमि, 3 कोर केबल का कोयला खान में प्रयोग हेतु डी०जी०एम०एस० अनुमोदन संख्या 118/2011 का नवीनीकरण के संबंध में - मेसर्स मेसर्स के०इ०आई० इंडस्ट्रिज लिमिटेड, नई दिल्ली-110 020.

महोदय,

उपरोक्त विषय में संबंधित नवीनीकरण पत्र अग्रेषित किया जाता है ।

भवदीय,

(रघुवंश कुमार)
खान सुरक्षा महानिदेशक

RESEARCH DESIGNS & STANDARDS ORGANIZATION
Manaknagar, Lucknow, Uttar Pradesh, INDIA – 226011

QA/S&T Directorate

CERTIFICATE OF APPROVAL

This is to certify that

M/s. KEI Industries Limited

With facilities located at the following addresses:

Office Addresses	Works Addresses
D-90, Okhla Industrial Area, PH-I, New Delhi-110020	SP-919-920-921,RIICO Industrial Area, Pin-9, BHIWADI, Distt-Alwar (Rajasthan) 301019.

is approved as a supplier for the following items:

S.No.	Item Description	Drawing / Specification	Status of Approval Part-I / Part-II
1.	PVC insulated Armoured, Unscreened, Underground Railway Signalling Cable	RS:S-43/2007 (Amd.-3)	Part-II(TWO)

Certificate Details:

Certificate No.:	RDSO/2013/CS/0120(M)	Registration / File Number	RDSO/2007/CS/CABLE/1322 VOL I
Date of Issue:	16-September-2013	Date of Expiry:	31-December-2015

(G. Gavli)
Director(QA/S&T)
For Director General/QA/S&T

Note : The certificate is subject to the conditions given overleaf

---

RASHI STEEL AND POWER LTD.
(Formerly Known as Rashi Strips Pvt. Ltd.)
BF-1, First Floor, Opp. Axis Bank, Rajiv Plaza, Bhatpur 495 001 (C.G.)
Ph.: +91 7752 408405 Fax : +91 7752 238603 E-mail : rashistrips@gmail.com

PURCHASE ORDER

VENDOR	P.O. No. PSPL/PO/014/00182 Date: 21/10/13
KEI Industries Limited New Maharashtra School 103, Pilot Layout Nagpur-440014 IN	Email ID: rashistrips@gmail.com Contact Person: Ajay Krishna Sharma, Vishesh Diwan Contact No: 7898890015,7878840015, Fax No: +91 7752 3389 Tel No: +91 7752 408405 TIN No: 2294400094 CST No: 2294400094 ECC No: AABCR4560DXM001 Excise Range: BILASPUR Excise Division: BILASPUR Excise Commissionerate: RAIPUR

We are pleased to inform you that we have found your offer competitive & are here order placing our order for the following items :

Sl.	Item Description	Make/TS	QTY	UoM	Rate	Total Amount
1	PVC Type A Insulated Core Twisted PILC Instrument Cable (1 Pair 1.5 Sq.mm)	KEI Make Shortlisted Class	1,000	Mtr	90.07	181,040.00
2	PVC Type A Insulated Core Twisted PILC Instrument Cable (3 Pair 1.5 Sq.mm)	KEI Make Shortlisted Class	1,000	Mtr	140.23	311,715.00
3	PVC Type A Insulated Core Twisted PILC Instrument Cable (12 Pair 1.5 Sq.mm)	KEI Make Shortlisted Class	1,000	Mtr	248.00	494,000.00
4	PVC Type A Insulated Core Twisted PILC Instrument Cable (12 Pair 1.5 Sq.mm)	KEI Make Shortlisted Class	1,000	Mtr	318.34	515,040.00
5	PVC Type A Insulated PUR Core PILC Instrument Cable (3 Core 95 TC Sq.mm)	KEI Make Shortlisted Class	1,000	Mtr	70.29	70,340.00
6	PVC Type A Insulated PUR Core PILC Instrument Cable (3 Core 95 TC Sq.mm)	KEI Make Shortlisted Class	1,000	Mtr	95.19	97,210.00
7	PVC Type A Insulated PUR Core PILC Instrument Cable (3 Core 95 TC Sq.mm)	KEI Make Shortlisted Class	1,000	Mtr	84.79	103,050.00
8	PVC Type A Insulated PUR Core PILC Instrument Cable (8 Core 95 TC Sq.mm)	KEI Make Shortlisted Class	1,000	Mtr	76.07	76,070.00
9	Cu ARMOURED CABLE 1 Core X 2.5 Sq.mm	KEI Make Shortlisted Class 1)	1,000	Mtr	72.80	102,175.00
10	Cu ARMOURED CABLE 1 Core X 2.5 Sq.mm	KEI Make Shortlisted Class 1)	10,000	Mtr	89.27	892,700.00
11	Cu ARMOURED CABLE 1 Core X 1.5 Sq.mm	KEI Make Shortlisted Class 1)	1,000	Mtr	74.27	114,408.00
12	Cu ARMOURED CABLE 1 Core X 4 Sq.mm	KEI Make Shortlisted Class 1)	1,000	Mtr	126.68	192,500.00
13	Cu ARMOURED CABLE 1 Core X 6 Sq.mm	KEI Make Shortlisted Class 1)	5,000	Mtr	170.08	895,896.00
14	Cu ARMOURED CABLE 1 Core X 16 Sq.mm	KEI Make Shortlisted Class 1)	5,000	Mtr	314.28	1,571,400.00
15	Cu ARMOURED CABLE 1 Core X 25 Sq.mm	KEI Make Shortlisted Class 1)	5,000	Mtr	506.88	2,532,600.00
16	Cu UNARMOURED CABLE 1 Core X 6 Sq.mm	KEI Make 1.1 KV Single Multi Core	500	Mtr	32.99	16,495.00
17	Cu UNARMOURED CABLE 2 Core X 2.5 Sq.mm	KEI Make 1.1 KV Single Multi Core	2,000	Mtr	57.17	114,400.00
18	AL ARMOURED CABLE 35 Sq. mm x 3 core	KEI Make Shortlisted Class	9,000	Mtr	92.45	832,440.00
19	AL ARMOURED CABLE 25.0 sq. mm x 3 core	KEI Make Shortlisted Class	3,000	Mtr	75.49	226,470.00
20	AL ARMOURED CABLE 120.0 sq. mm x 3.5 core	KEI Make Shortlisted Class	1,000	Mtr	236.68	236,680.00

Registered Office : A-104, Meera Bagh, New Delhi

RASHI STEEL AND POWER LTD.
(Formerly Known as Rashi Strips Pvt. Ltd.)
BF-1, First Floor, Opp. Axis Bank, Rajiv Plaza, Bhatpur 495 001 (C.G.)
Ph.: +91 7752 408405 Fax : +91 7752 238603 E-mail : rashistrips@gmail.com

PURCHASE ORDER

VENDOR	P.O. No. PSPL/PO/014/00182 Date: 21/10/13
KEI Industries Limited New Maharashtra School 103, Pilot Layout Nagpur-440014 IN	Email ID: rashistrips@gmail.com Contact Person: Ajay Krishna Sharma, Vishesh Diwan Contact No: 7898890015,7878840015, Fax No: +91 7752 3389 Tel No: +91 7752 408405 TIN No: 2294400094 CST No: 2294400094 ECC No: AABCR4560DXM001 Excise Range: BILASPUR Excise Division: BILASPUR Excise Commissionerate: RAIPUR

We are pleased to inform you that we have found your offer competitive & are here order placing our order for the following items :

Sl.	Item Description	Make/TS	QTY	UoM	Rate	Total Amount
21	AL ARMOURED CABLE 35.0 sq. mm x 3 core	KEI Make Shortlisted Class	2,000	Mtr	87.80	174,600.00
22	AL ARMOURED CABLE 25.0 sq. mm x 3 core	KEI Make Shortlisted Class	2,000	Mtr	207.91	415,775.00
23	AL ARMOURED CABLE 95.0 sq. mm x 3 core	KEI Make Shortlisted Class	1,000	Mtr	330.28	330,280.00
24	AL ARMOURED CABLE 240.0 sq. mm x 3 core	KEI Make Shortlisted Class	1,000	Mtr	670.70	670,700.00
25	AL ARMOURED CABLE 70.0 sq. mm x 4 core	KEI Make Shortlisted Class	1,000	Mtr	306.64	306,640.00
26	AL ARMOURED CABLE 70.0 sq. mm x 3 core	KEI Make Shortlisted Class	2,000	Mtr	186.27	372,540.00
27	Cu UNARMOURED CABLE 1 Core X 100 Sq.mm	KEI Make Shortlisted Class	500	Mtr	1,212.01	606,005.00

Registered Office : A-104, Meera Bagh, New Delhi

NATIONAL FEDERATION OF COOPERATIVE SUGAR FACTORIES LTD.
राष्ट्रीय सहकारी शक्कर कारखाना संघ लिमिटेड
Ansal Plaza, Block-C, 2nd Floor, August Kranti Marg, New Delhi-110049 (India)
Phone : 26293429, 26293430, 26293866, 26293891 Fax : (91-11) 26293855
Grams : FEDSUCOP E-mail : nfcsf@sancharnet.in, nfcsf@sancharnet.in, nfcsf@powernet.com

Ref.No. IA-256/2013/ 1457 Dated-09/07/2013

M/s KEI Industries Ltd.
D-90, Okhla Industrial Area, Phase-I,
NEW DELHI-110020

Sub. – Renewal of registration of your firm as an approved manufacturer of **Electric Cables.**

Dear Sir

This is in reference to your letter dated 01st July 2013, on the above cited subject.

We are pleased to inform you that after scrutinizing the documents submitted by you. Your registration as an approved manufacturer for Electric Cables is renewed for a period of 3 (three) year from the date of issue of this letter i.e. up to 08th July 2016.

However, we retain our right to revise and cancel your registration without assigning any reason whatsoever and without any liability on our part.

Thanking you,

Yours faithfully,

(VINAY KUMAR)
Managing Director

NATIONAL FEDERATION OF COOPERATIVE SUGAR FACTORIES LTD.
राष्ट्रीय सहकारी शक्कर कारखाना संघ लिमिटेड
Ansal Plaza, Block-C, 2nd Floor, August Kranti Marg, New Delhi-110049 (India)
Phone : 26293429, 26293430, 26293866, 26293891 Grams : FEDSUCOP
Fax : (91-11) 26293855 E-mail : nfcsf@sancharnet.in, nfcsf@powernet.com

IA-256/2013 Cir-31 Dated-07/05/2013

To,

1) The Commissioner of Sugar (Maharashtra, Karnataka, T.N.,A.P., Gujarat)
2) All State Federations of coop. Sugar Factories Ltd.
3) All Cooperative Sugar Factories (working & non working)

Sub. List of approved suppliers of complete sugar plants & critical equipments by NCDC and list of approved suppliers for important equipment by NFCSF.

Dear Sir,

Please find enclosed herewith list of approved suppliers of complete sugar plants on turn key basis along with list of equipment duly approved by NCDC vide their letter no. NCDC-13-1/98-Sugar, Dated – 13.05.2013. (Annexure I & II)

Further list of approved supplier for important equipment duly registered by NFCSF updated upto April-2013, is also enclosed at Annexure III.

Note: You are requested to send us details of serious complaints, if any, about the performance of equipments procured from the registered firms (As per Annexure I,II&III enclosed)

This is for your information, necessary action and records.

Thanking you,

Yours faithfully,

(VINAY KUMAR)
Managing Director

Encl: as above

RASHI STEEL AND POWER LTD.
(Formerly Known as Rashi Strips Pvt. Ltd.)
BF-1, First Floor, Opp. Axis Bank, Rajiv Plaza, Bhatpur 495 001 (C.G.)
Ph.: +91 7752 408405 Fax : +91 7752 238603 E-mail : rashistrips@gmail.com

PURCHASE ORDER

VENDOR	P.O. No. PSPL/PO/014/00182 Date: 21/10/13
KEI Industries Limited New Maharashtra School 103, Pilot Layout Nagpur-440014 IN	Email ID: rashistrips@gmail.com Contact Person: Ajay Krishna Sharma, Vishesh Diwan Contact No: 7898890015,7878840015, Fax No: +91 7752 3389 Tel No: +91 7752 408405 TIN No: 2294400094 CST No: 2294400094 ECC No: AABCR4560DXM001 Excise Range: BILASPUR Excise Division: BILASPUR Excise Commissionerate: RAIPUR

We are pleased to inform you that we have found your offer competitive & are here order placing our order for the following items :

Sl.	Item Description	Make/TS	QTY	UoM	Rate	Total Amount
28	AL ARMOURED CABLE 1 Core X 240 Sq.mm	KEI Make Shortlisted Class	500	Mtr	1,010.48	505,245.00

Commercial Terms and Conditions

Price: Firm **Taxes & Duties:** CENVAT 12.36 % + CST 2.0 % / CST 12.36%
Freight: FOR **Delivery:** Delivery Within 6-10 Weeks From Date Of LOI.
Payment Term: PF 10% Against ABG 10% Against PBG,80% Against Lorries LC Of 30 Days After Material Reed At Site.
Amount in words: Rs. One Crore Thirty Seven Lakh Forty Nine Thousand Eight Hundred Forty Seven And Twelve Nine Paise Only

Total	13,252,245.81
2.5% Pf On Gst	1,041,269.49
Gst Cess	39,280.41
12.36% Gst	14,332.75
CST	39,490.44
Freight	0.00
Grand Total	13,749,849.28

General Terms and Conditions

1. Time is essence of this order and delivery must be made as per delivery schedule unless otherwise differed by us in writing.
2. Delivery of goods should be within the delivery time frame as mentioned above, failing of which the order will be cancelled.
3. In the event, the supplier fails to deliver the goods of the ordered quality or deliver different and/or substandard make/quality, the company reserve the right to reject the material and refund the supplier to lift the material from our stores at his own cost. In carrying freight, if any, paid for these shall also be recovered. Breakage/loss if any during transit due to poor packing or handling shall be to supplier's account.
4. Please ensure that separate invoices are raised for each Delivery Challan and submitted a CUPLICATE along with delivery of the goods.
5. Please mention our Purchase Order No. in all your correspondence and invoice & Delivery Challans for prompt action.
6. Please ensure that your CST/VAT/TIN/ECC Nos. are mentioned in your invoices.
7. ARBITRATION: All disputes of differences whatsoever arising between the parties out of or in relation to work/supply of work order/purchase order or affect to be carried or breach thereof shall be settled amicably. However, if the parties are unable to solve their amicably, the same shall be finally settled by arbitration and reconciliation. The award thereon pursuance thereafter shall be final and binding on the parties.
8. CERTIFICATE copy of Invoice must accompany the goods failing which the amount will not be paid.
9. LD Clause will be applicable from 1.5% week/Part date of LOI, for delay in delivery 0.5% of Total PO value for week of delay or part thereof, subject to maximum of 5% of Total PO Value.
10. Delivery Schedule : 35% of total individual materials (Qty) should be supply within 15th to 20th Nov 2013 & Bal. Half Qty Within 25th Dec 2013.
11. For QTY, PRICE, Technical specification and All Terms & condition please refer Annexure 1,2,3 attached with PO.

FOR Rashi Steel and Power Ltd

Authorised Signatory

Printed from SAP Business One

Registered Office : A-104, Meera Bagh, New Delhi - 110 087

MUNICIPAL CORPORATION OF GREATER MUMBAI
No. Ch.E. / M&E /2[illegible] of 04 AUG 2014
Office of the
Chief Engineer (Mechanical & Electrical),
Engineering HUB Building, 1st Floor,
Dr.E.Moses Road, Worli Naka, Worli,
Mumbai- 400 018.
Tel.No.24930040/4041 Fax
2426 2071
E-Mail: [illegible]

To,
M/s KEI Industries Limited
101/102/103, Vasu Ship,
Vasu Enclave, Ajmuna Road,
Andheri Pump House,
Andheri(East), Mumbai-400093.

Subject :- Approval of upgradation of "KEI" brand cables & wires in 1st category.

Reference : KEI/MUM/DT/2013-14 dated 2.8.2013.

Gentlemen,

This is to inform you that the following products manufactured by you at the manufacturing unit at Silvassa plant are approved and included in the 'Unified Schedule of Rates for M&E-2013' of MCGM.

Sr.No.	I.S. No.	Product
1.	I.S.694/1990	PVC insulated copper conductor, pvc sheathed/FRLS sheathed cables & Flexibles & Aluminium copper pvc wires.
2.	I.S.7098/Part-I & II /1988	XLPE insulated Armoured/unarmoured & pvc sheathed/FRLS sheathed Aluminium/ copper conductor cables / HT cables ranging from 6.6 KV to 132 KV.
3.	I.S.1554/Part-I/1988	PVC insulated Armoured/unarmoured & pvc sheathed/FRLS sheathed Aluminium/copper conductor cables.

KEI WIRES & CABLES

AFCONS

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-Ind-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.

Authorised Signatories

Vijay Lunawat

JGM Procurement

WIN POWER INFRA PVT LTD.

(Formerly Win Power Marketing Pvt. Ltd)

Ref No: WPPL/KEI/ADB/D-1/13-14/53
Date : 18.09.2013

To,
M/s. KEI Industries Ltd.
93, Dr. Sundari Mohan Avenue,
1st & 2nd Floor,
Kolkata-700014

Sub : Issue of Delivery Schedule.
Ref : Our Order No. 1) WPPL/KEI/ADB/P-D/13-14/1264 Dt. 18.06.13
2) WPPL/KEI/ADB/P-D/13-14/1264 Dt. 18.06.13
3) WPPL/KEI/ADB/P-D/13-14/15 Dt. 18.06.13

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

WIN POWER INFRA PVT.LTD

No. WPPL/KEI/ADB/P-D /13-14/53
Date : 18.09.13

M/s KEI Industries Ltd.
93, Dr. Sundari Mohan Avenue,
1st & 2nd Floor,
Kolkata 700014

Kind Attention : Mr. Jashabant Jh.

Sub : Purchase Order.
Ref : Your Quotation No.KEI-KOL/WPI/13-14/Q-0487391 dt. 27.08.13

Dear Sir(s),

Please arrange to supply the Materials for our ADB Packages under APDCL as per the rates, terms & conditions mentioned below:-

1. Scope of work : Supply of Materials as per APDCL's T.S including any addition /deletion during approval from APDCL.

Sno	Particulars	Unit	Qty	Rate
01	11kV XLPE Cable 3C x 185 Sq.mm	Mtr.	800	660/-

1. Taxes & Duties : Only CST @2% extra as per ADB guidline.
2. Price Basis : 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.
3. Delivery : Immediate
4. Inspection : As per APDCL terms.
5. Quality/Specification : As per APDCL's approved specification. A copy of APDCL's T.S is being enclosed.
6. Guarantee : 36 Months from the date of dispatch & 60 months from the date of commissioning.
7. 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 material.

WIN POWER INFRA PVT.LTD

No. WPPL/KEI/ADB/P-D /13-14/52
Date : 06.08.13

M/s KEI Industries Ltd.
93, Dr. Sundari Mohan Avenue,
1st & 2nd Floor,
Kolkata 700014

Kind Attention : Mr. Jashabant Jh.

Sub : Purchase Order.
Ref : Your Quotation No.KEI-KOL/WPI/13-14/Q-0487391 dt. 27.06.13

Dear Sir(s),

Please arrange to supply the Materials for our HVDS Packages under APDCL as per the rates, terms & conditions mentioned below:-

1. Scope of work : Supply of Materials as per APDCL's T.S including any addition /deletion during approval from APDCL.

Sno	Particulars	Unit	Qty	Rate
01	11kV XLPE Cable 3C x 400 Sq.mm	Mtr.	200	1,480/-
02	11kV XLPE Cable 3C x 400 Sq.mm	Mtr.	200	1,371/-
03	11kV XLPE Cable 3C x 300 Sq.mm	Mtr.	300	1,308/-

1. Taxes & Duties : Only CST @1% extra as per HVDS/ADB guidline.
2. Price Basis : 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.
3. Delivery : Immediate
4. Inspection : As per APDCL terms.
5. Quality/Specification : As per APDCL's approved specification. A copy of APDCL's T.S is being enclosed.
6. Guarantee : 36 Months from the date of dispatch & 60 months from the date of commissioning.
7. 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.

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	Sheilding 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

SR.	NAME OF MACHINE	NO. OF MACHINE/ M/C SIZE/CAPACITY/ MAKE
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	CABLE REWINDING MACHINE	05 Number
16	ELECTRIC OVER HEAD TRAVELLING (CRANE)	3/ 15 TON/ India
17	ELECTRIC OVER HEAD TRAVELLING (CRANE)	2/ 10 TON/ India
18	MATERIAL LIFTS	2/ 3 TON/ India
19	D.G. SET	1/ 1250 kVA/ India
20	D.G. SET	1/ 500 kVA/ India
21	BOILER	1/ 600KG/Hr/ India
22	NITROGEN GENERATOR	1/ 40 NM'3/Hr/ India
23	COMPRESSOR	3/ 57 M3/Hr/ India
24	UPS	4/ 250 kVA/ India
25	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 I N 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	0-11Ohms
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	0-200OC
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 appratus(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 332-11I & IS-10810-Pl-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. DETECTER (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 220 kV XLPE

KEI Industries Limited is equipped with the Cable Development Technologies to ensure manufacturing of cables up to and including 220 kV. At the Chopanki plant the company is into manufacturing of cables up to 220 kV and the Bhiwadi Plant is capable of manufacturing cables upto 132 kV by Dry Cure / Dry Cooled Process. The 220 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 220kV.

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 / Exruded Semi-conductive layer

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:-

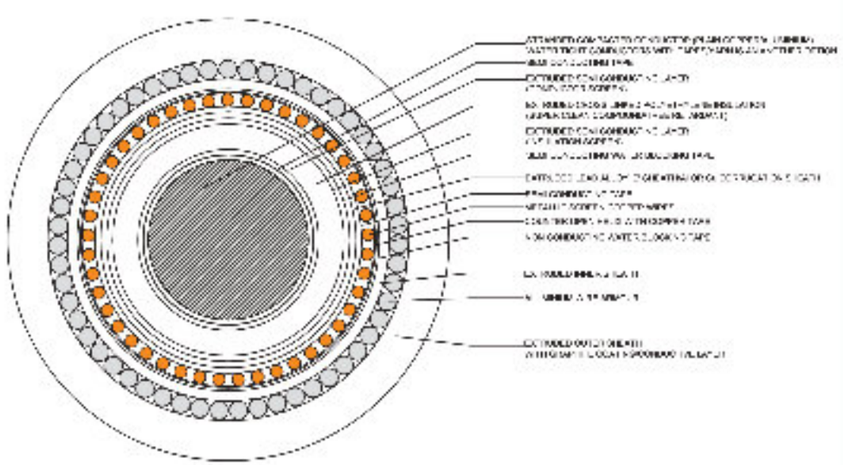
- Survey at site
- Selecting and recommending best routes for installation of the system
- Designing cables
- Manufacture of cables at their own plants (No out sourcing)
- Inspection at our plants
- Dispatch cables to site
- Take up installation of cables at site including termination and jointing etc.
- 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

A Typical Cross Sectional Drawing of EHV XLPE Cable



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 Machinenbau 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 Singe-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 Cattapiller & 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 Capacitane 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 NDUCTOR (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 x 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)	1.16	1.11	1.06	1.0	0.94	0.88	0.81	0.74

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.

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, class-2 conductor as per IS: 8130	Unarmoured Cable: Nom thickness of XLPE Insulation	Unarmoured Cable: Nom thickness of Outer Sheath	Unarmoured Cable: Approx Overall diameter of Cable with ± 3mm tolerance	Unarmoured Cable: Al Approx weight of cable	Unarmoured Cable: Cu Approx weight of cable	Armoured Cable: Nom thickness of XLPE Insulation	Armoured Cable: Nom diameter of Al wire	Armoured Cable: Min thickness of Outer Sheath	Armoured Cable: Approx Overall diameter of Cable with ± 3mm tolerance	Armoured Cable: Al Approx weight of cable	Armoured Cable: Cu Approx weight of cable	Current Rating Aluminium: Buried Direct in the Ground @ 30°C Trefoil Touching	Aluminium: Buried Direct in the Ground @ 30°C Flat Touching	Aluminium: In Single way Duct @ 30°C Trefoil Touching	Aluminium: In Single way Duct @ 30°C Flat Touching	Aluminium: In Air @ 40°C Trefoil Touching	Aluminium: In Air @ 40°C Flat Touching	Copper: Buried Direct in the Ground @ 30°C Trefoil Touching	Copper: Buried Direct in the Ground @ 30°C Flat Touching	Copper: In Single way Duct @ 30°C Trefoil Touching	Copper: In Single way Duct @ 30°C Flat Touching	Copper: In Air @ 40°C Trefoil Touching	Copper: In Air @ 40°C 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
25	2.2	1.8	14.6	235	385	2.5	1.4	1.24	14.2	340	475	96	99	86	89	105	105	125	130	110	115	130	135
35	2.2	1.8	15.6	275	470	2.5	1.4	1.24	15.2	375	575	115.00	120	100	105	125	130	150	150	130	135	160	165
50	2.2	1.8	16.7	325	605	2.5	1.4	1.4	16.7	460	725	135	140	120	125	150	155	175	180	155	160	195	200
70	2.2	1.8	18.3	400	800	2.5	1.6	1.4	18.3	550	950	165	170	145	150	190	195	215	220	190	195	245	250
95	2.2	2.0	20.4	515	1050	2.5	1.6	1.4	20.0	670	1200	195	205	175	180	235	240	255	260	225	235	300	310
120	2.2	2.0	21.8	600	1275	2.5	1.6	1.4	21.4	775	1450	225	230	200	205	275	280	290	295	255	265	350	360
150	2.2	2.0	23.2	695	1500	2.5	1.6	1.4	22.8	880	1700	250	260	230	230	310	320	325	335	285	295	400	410
185	2.2	2.0	25.1	825	1850	2.5	1.6	1.4	24.7	1000	2050	285	290	250	260	360	370	365	375	320	330	460	475
240	2.2	2.0	27.5	990	2350	2.5	1.6	1.56	27.5	1225	2575	330	340	285	300	430	440	420	435	370	385	550	560
300	2.2	2.0	29.6	1175	2850	2.5	1.6	1.56	29.6	1425	3100	370	380	325	335	495	570	470	485	410	430	630	650
400	2.2	2.2	33.0	1495	3750	2.6	2.0	1.56	32.8	1845	4050	420	435	370	385	580	600	530	550	465	485	740	760
500	2.4	2.2	36.4	1800	4600	2.8	2.0	1.56	36.2	2200	5000	480	500	420	435	690	710	600	620	520	540	860	890
630	2.6	2.2	40.4	2250	5750	3.0	2.0	1.72	40.6	2700	6250	550	570	470	495	800	830	670	700	580	600	980	1020
800	2.8	2.4	45.5	2800	7300	3.3	2.0	1.88	45.7	3300	7800	610	640	530	550	930	960	740	770	640	660	1120	1160
1000	3.0	2.6	51.6	3500	9100	3.5	2.5	2.04	51.8	4200	9800	680	710	580	610	1060	1090	800	840	690	720	1250	1290

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											
												Aluminium						Copper					
												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	
	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 thickness of XLPE Insulation	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	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	Kg./Km	mm	mm	mm	mm	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
25	2.2	1.8	15.6	310	450	2.5	1.6	1.40	21.6	525	675	96	99	86	89	105	105	125	130	110	115	130	135
35	2.2	1.8	16.6	350	550	2.5	1.6	1.4	22.6	575	775	115	120	100	105	125	130	150	150	130	135	160	165
50	2.2	2	17.7	425	700	2.5	1.6	1.4	23.7	650	950	135	140	120	125	150	155	175	180	155	160	195	200
70	2.2	2	19.3	500	900	2.5	1.6	1.4	25.3	750	1150	165	170	145	150	190	195	215	220	190	195	245	250
95	2.2	2.0	21.4	600	1150	2.5	1.6	1.4	27.0	875	1400	195	205	175	180	235	240	255	260	225	235	300	310
120	2.2	2.0	22.8	700	1375	2.5	1.6	1.4	28.4	975	1650	225	230	200	205	275	280	290	295	255	265	350	360
150	2.2	2.0	24.2	800	1650	2.5	1.6	1.56	30.2	1125	1950	250	260	230	230	310	320	325	335	285	295	400	410
185	2.2	2.0	26.1	925	1975	2.5	1.6	1.56	32.1	1250	2300	285	290	250	260	360	370	365	375	320	330	460	475
240	2.2	2.2	28.5	1125	2450	2.5	2.0	1.56	35.3	1550	2900	330	340	285	300	430	440	420	435	370	385	550	560
300	2.2	2.2	30.6	1350	3000	2.5	2.0	1.56	37.4	1775	3175	370	380	325	335	495	570	470	485	410	430	630	650
400	2.2	2.2	35.4	1650	3900	2.6	2.0	1.72	41.2	2175	4400	420	435	370	385	580	600	530	550	465	485	740	760
500	2.4	2.2	38.8	2000	4800	2.8	2.0	1.72	44.6	2575	5350	480	500	420	435	690	710	600	620	520	540	860	890
630	2.6	2.4	42.8	2450	6000	3.0	2.0	1.88	48.8	3075	6600	550	570	470	495	800	830	670	700	580	600	980	1020
800	2.8	2.6	47.9	3050	7500	3.3	2.5	2.04	55	3900	8400	610	640	530	550	930	960	740	770	640	660	1120	1160
1000	3.0	2.6	54	3700	9300	3.5	2.5	2.2	61	4700	10350	680	710	580	610	1060	1090	800	840	690	720	1250	1290

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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											
											Aluminium						Copper					
											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	
	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	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	Kg./Km	mm	mm	Kg./Km	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
25	2.8	1.8	18.0	340	475	1.6	1.40	20.3	450	600	99	100	87	90	115	120	125	130	110	115	150	155
35	2.8	2.0	19.4	400	600	1.6	1.4	21.6	525	700	115	120	105	105	140	145	150	155	135	140	180	185
50	2.8	2.0	20.5	475	750	1.6	1.4	22.7	600	875	140	140	120	125	170	170	180	185	155	160	215	220
70	2.8	2.0	23.1	550	950	1.6	1.4	24.3	675	1050	170	175	150	155	210	215	215	225	190	195	270	275
95	2.8	2.0	23.8	660	1200	1.6	1.4	26.0	800	1325	200	205	175	180	255	260	260	265	225	235	330	340
120	2.8	2.0	25.2	750	1425	1.6	1.4	27.4	900	1550	230	235	200	205	295	305	295	300	255	265	380	390
150	2.8	2.0	26.6	850	1700	1.6	1.56	29.2	1025	1850	255	260	220	230	335	345	325	335	285	295	430	440
185	2.8	2.0	28.5	1000	2025	1.6	1.56	31.1	1150	2200	290	295	250	260	385	395	370	380	320	330	495	510
240	2.8	2.2	31.3	1200	2550	2.0	1.56	34.3	1450	2800	330	340	290	300	455	470	425	435	370	380	580	600
300	3.0	2.2	33.8	1425	3100	2.0	1.56	36.8	1675	3350	375	385	325	335	520	540	475	490	415	425	670	680
400	3.3	2.2	37.4	1750	4000	2.0	1.72	41	2100	4350	425	440	370	380	610	630	540	550	465	480	780	790
500	3.5	2.4	41.2	2150	4950	2.0	1.72	44.4	2450	5250	485	495	415	430	720	730	600	610	520	530	900	910
630	3.5	2.4	44.8	2550	6125	2.0	1.88	48.2	2950	6450	550	560	470	480	830	840	670	680	580	580	1020	1030
800	3.5	2.6	49.5	3150	7650	2.5	2.04	53.8	3700	8150	610	620	520	530	950	960	730	740	630	630	1150	1140
1000	3.6	2.8	55.4	3850	9450	2.5	2.2	59.6	4450	10050	670	680	570	580	1070	1070	790	790	670	670	1260	1250

CableGrid Australia Pty Ltd

SINGLE CORE COMPACTED ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, UNARMOURED & ARMOURED CABLE CONFORMING TO IS: 7098 (PART-2)

Voltage Grade : 6.35 / 11kV (E), 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											
											Aluminium						Copper					
											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	
	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	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	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	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	115	120	105	105	140	145	150	155	135	140	180	185
50	3.6	2.0	22.1	525	800	1.6	1.4	24.3	600	875	140	140	120	125	170	170	180	185	155	160	215	220
70	3.6	2.0	23.7	625	1000	1.6	1.4	25.9	675	1050	170	175	150	155	210	215	215	225	190	195	270	275
95	3.6	2.0	25.4	725	1250	1.6	1.4	27.6	800	1300	200	205	175	180	255	260	260	265	225	235	330	340
120	3.6	2.0	26.8	825	1500	1.6	1.56	29.4	900	1550	230	235	200	205	295	305	295	300	255	265	380	390
150	3.6	2.0	28.2	925	1750	1.6	1.56	30.8	1025	1875	255	260	220	230	335	345	325	335	285	295	430	440
185	3.6	2.2	30.2	1050	2100	2.0	1.56	33.5	1150	2200	290	295	250	260	385	395	370	380	320	330	495	510
240	3.6	2.2	32.9	1250	2600	2.0	1.56	35.9	1450	2800	330	340	290	300	455	470	425	435	370	380	580	600
300	3.6	2.2	35.0	1500	3150	2.0	1.56	38.0	1650	3350	375	385	325	335	520	540	475	490	415	425	670	680
400	3.6	2.2	38.0	1800	4050	2.0	1.72	41.6	2100	4350	425	440	370	380	610	630	540	550	465	480	780	790
500	3.6	2.4	41.4	2150	5000	2.0	1.72	44.6	2450	5250	485	495	415	430	720	730	600	610	520	530	900	910
630	3.6	2.4	45.0	2550	6125	2.0	1.88	48.6	3000	6450	550	560	470	480	830	840	670	680	580	580	1020	1030
800	3.6	2.6	49.7	3150	7650	2.5	2.04	54.1	3700	8200	610	620	520	530	950	960	730	740	630	630	1150	1140
1000	3.6	2.8	55.4	3850	9500	2.5	2.20	59.6	4450	10050	670	680	570	580	1070	1070	790	790	670	670	1260	1250

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SINGLE CORE COMPACTED ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, UNARMOURED & 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	Unarmoured Cable					Armoured cable					Current Rating											
											Aluminium						Copper					
											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	
	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	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	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	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	115	120	105	105	140	145	150	155	135	140	180	185
50	5.5	2.0	26.3	675	950	1.6	1.56	28.8	850	1125	140	140	120	125	170	170	180	185	155	160	215	220
70	5.5	2.0	27.9	775	1150	1.6	1.56	30.4	950	1350	170	175	150	155	210	215	215	225	190	195	270	275
95	5.5	2.0	29.6	900	1425	1.6	1.56	32.1	1050	1600	200	205	175	180	255	260	260	265	225	235	330	340
120	5.5	2.2	31.4	1000	1700	2.0	1.56	34.3	1250	1950	230	235	200	205	295	305	295	300	255	265	380	390
150	5.5	2.2	32.8	1150	2000	2.0	1.56	35.7	1400	2200	255	260	220	230	335	345	325	335	285	295	430	440
185	5.5	2.2	34.7	1275	2300	2.0	1.56	37.6	1550	2600	290	295	250	260	385	395	370	380	320	330	495	510
240	5.5	2.2	37.1	1500	2850	2.0	1.72	40.3	1800	3150	330	340	290	300	455	470	425	435	370	380	580	600
300	5.5	2.2	39.2	1700	3400	2.0	1.72	42.4	2050	3700	375	385	325	335	520	540	475	490	415	425	670	680
400	5.5	2.4	42.8	2050	4300	2.0	1.88	46.0	2425	4650	425	440	370	380	610	630	540	550	465	480	780	790
500	5.5	2.4	45.8	2400	5250	2.0	1.88	49.0	2800	5600	485	495	415	430	720	730	600	610	520	530	900	910
630	5.5	2.6	49.8	2900	6450	2.5	2.04	53.9	3450	7000	550	560	470	480	830	840	670	680	580	580	1020	1030
800	5.5	2.8	54.4	3500	8000	2.5	2.2	58.5	4100	8600	610	620	520	530	950	960	730	740	630	630	1150	1140
1000	5.5	2.8	59.8	4200	9800	2.5	2.20	63.8	4850	10500	670	680	570	580	1070	1070	790	790	670	670	1260	1250

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SINGLE CORE COMPACTED ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, UNARMOURED & 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	Unarmoured Cable					Round Wire Armoured Cable					Current Rating											
											Aluminium						Copper					
											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	
	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	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	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
35	6.0	2.0	26.2	650	850	1.6	1.4	28.2	800	1000	115	120	100	105	145	145	150	155	130	135	185	190
50	6.0	2.0	27.3	725	1000	1.6	1.56	29.6	900	1175	135	140	120	125	175	175	175	180	155	160	225	230
70	6.0	2.0	28.9	825	1225	1.6	1.56	31.2	1000	1400	165	170	145	150	215	220	215	220	185	195	275	285
95	6.0	2.2	31.0	975	1500	2.0	1.56	33.7	1125	1650	200	205	170	180	260	270	255	265	220	230	340	345
120	6.0	2.2	32.4	1050	1750	2.0	1.56	35.1	1300	2000	225	230	195	200	300	310	290	300	250	260	390	400
150	6.0	2.2	33.8	1200	2050	2.0	1.56	36.5	1450	2300	250	260	220	225	340	350	325	330	280	290	440	450
185	6.0	2.2	35.7	1350	2400	2.0	1.56	38.4	1600	2650	285	290	245	255	390	400	365	375	315	325	500	510
240	6.0	2.2	38.1	1550	2900	2.0	1.72	41.1	1900	3200	330	335	285	290	460	470	420	430	360	370	590	600
300	6.0	2.2	40.2	1775	3450	2.0	1.72	43.2	2100	3800	370	380	320	325	530	540	470	480	405	415	680	690
400	6.0	2.4	43.8	2150	4400	2.0	1.88	47.0	2425	4850	420	430	360	370	620	630	530	540	455	465	780	790
500	6.0	2.6	47.2	2550	5350	2.5	2.04	51.3	2800	5600	475	485	410	420	720	730	590	600	510	520	900	910
630	6.0	2.6	50.8	3000	6500	2.5	2.04	54.9	3450	7000	540	550	460	470	830	840	660	660	560	570	1020	1020
800	6.0	2.8	55.5	3600	8100	2.5	2.2	59.5	4100	8600	600	610	510	520	950	950	730	720	620	620	1150	1140
1000	6.0	3.0	61.2	4350	9950	2.5	2.36	65.1	4850	10500	660	660	560	560	1070	1060	780	760	660	660	1270	1240

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SINGLE CORE COMPACTED ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, UNARMOURED & 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	Unarmoured Cable					Armoured cable					Current Rating											
											Aluminium						Copper					
											Buried Direct in the Ground @ 30°C		In Single way Duct @ 30°C		In Air @ 40°C		In Single way Duct @ 30°C		In Single way Duct @ 30°C		In Air @ 40°C	
	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	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	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
120	8.8	2.2	38.2	1400	2050	2.0	1.72	41.4	1700	2400	225	230	195	200	300	310	290	300	250	260	390	400
150	8.8	2.2	39.6	1500	2350	2.0	1.72	42.8	1850	2700	250	260	220	225	340	350	325	330	280	290	440	450
185	8.8	2.4	41.9	1700	2700	2.0	1.72	44.7	2000	3050	285	290	245	255	390	400	365	375	315	325	500	510
240	8.8	2.4	44.3	1900	3250	2.0	1.88	47.5	2300	3650	330	335	285	290	460	470	420	430	360	370	590	600
300	8.8	2.6	46.8	2150	3850	2.5	2.04	50.9	2750	4400	370	380	320	325	530	540	470	480	405	415	680	690
400	8.8	2.6	49.8	2600	4850	2.5	2.04	54.1	3150	5400	420	430	360	370	620	630	530	540	455	465	780	790
500	8.8	2.8	53.2	3000	5850	2.5	2.20	57.4	3600	6400	475	485	410	420	720	730	590	600	510	520	900	910
630	8.8	2.8	56.8	3500	7050	2.5	2.20	61.0	4100	7650	540	550	460	470	830	840	660	660	560	570	1020	1020
800	8.8	3.0	61.5	4150	8650	2.5	2.36	65.6	4800	9300	600	610	510	520	950	950	730	720	620	620	1150	1140
1000	8.8	3.2	67.2	4950	10600	3.15	2.52	72.5	5900	10500	660	660	560	560	1070	1060	780	760	660	660	1270	1240

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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					
														Aluminium			Copper		
				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	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
Sq.mm.	△	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	Shaped	2.2	0.3	4 x 0.8	1.40	26.9	950	1400	1.6	1.56	28.9	1200	1600	94	80.00	99	120	100	125
35	Shaped	2.2	0.3	4 x 0.8	1.56	28.6	1100	1700	1.6	1.56	30.2	1300	1900	115	94	120	145	120	155
50	Shaped	2.2	0.4	4 x 0.8	1.56	31.8	1300	2150	2.0	1.56	34.2	1800	2650	135	110	145	170	145	190
70	Shaped	2.2	0.4	4 x 0.8	1.56	34	1575	2750	2.0	1.56	36.4	2050	3250	165	140	185	210	175	235
95	Shaped	2.2	0.4	4 x 0.8	1.72	37.4	1900	3500	2.0	1.72	39.8	2400	4050	195	165	225	250	210	290
120	Shaped	2.2	0.5	4 x 0.8	1.72	39.6	2150	4200	2.0	1.88	42.4	2750	4750	220	185	255	285	240	330
150	Shaped	2.2	0.5	4 x 0.8	1.88	43	2500	5050	2.5	2.04	46.6	3500	6050	245	210	295	315	270	375
185	Shaped	2.2	0.5	4 x 0.8	2.04	46.2	2950	6050	2.5	2.04	49.6	4000	7100	280	235	340	355	300	435
240	Shaped	2.2	0.6	4 x 0.8	2.20	49.9	3500	7550	2.5	2.20	53.3	4600	8650	320	270	400	410	350	510
300	Shaped	2.2	0.6	4 x 0.8	2.20	55.9	4200	9300	2.5	2.36	59.7	5500	10500	360	305	460	460	390	590
400	Shaped	2.2	0.7	4 x 0.8	2.52	60.9	5250	12000	3.15	2.68	65.7	7200	13950	410	350	535	520	440	670

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					
														Aluminium			Copper		
				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	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
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	80	99	120	100	125
35	Circular	2.2	0.4	4 x 0.8	1.56	36.0	1700	2300	2.0	1.72	38.4	2300	2900	115	94	120	145	120	155
50	Circular	2.2	0.4	4 x 0.8	1.72	38.7	1975	2800	2.0	1.72	41.4	2550	3400	135	110	145	170	145	190
70	Circular	2.2	0.5	4 x 0.8	1.72	42.0	2350	3500	2.0	1.88	44.6	3000	4200	165	140	185	210	175	235
95	Circular	2.2	0.5	4 x 0.8	1.88	45.8	2800	4400	2.5	2.04	49.6	3900	5500	195	165	225	250	210	290
120	Circular	2.2	0.5	4 x 0.8	2.04	49.1	3350	5350	2.5	2.04	52.5	4550	6575	220	185	255	285	240	330
150	Circular	2.2	0.6	4 x 0.8	2.04	52.5	3600	6150	2.5	2.20	56.1	4900	7400	245	210	295	315	270	375
185	Circular	2.2	0.6	4 x 0.8	2.20	56.7	4200	7350	2.5	2.36	60.5	5600	8700	280	235	340	355	300	435
240	Circular	2.2	0.6	4 x 0.8	2.36	62.1	5100	9150	2.5	2.36	65.5	6550	10600	320	270	400	410	350	510
300	Circular	2.2	0.7	4 x 0.8	2.52	66.7	5900	11000	3.15	2.68	71.8	8200	13300	360	305	460	460	390	590
400	Circular	2.2	0.7	4 x 0.8	2.68	73.8	7400	14200	3.15	2.84	78.9	10000	16800	410	350	535	520	440	670

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					
														Aluminium			Copper		
				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	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
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	2.8	0.4	4 x 0.8	1.56	36.8	1700	2150	2.0	1.72	39.4	2300	2700	95	82	105	120	105	135
35	Circular	2.8	0.4	4 x 0.8	1.72	39.1	1900	2500	2.0	1.72	41.5	2500	3100	115	97	125	145	125	165
50	Circular	2.8	0.5	4 x 0.8	1.72	41.4	2200	3050	2.0	1.88	44.2	2850	3700	130	115	150	170	150	195
70	Circular	2.8	0.5	4 x 0.8	1.88	45.2	2525	3700	2.0	1.88	47.6	3200	4400	160	140	190	210	180	240
95	Circular	2.8	0.5	4 x 0.8	1.88	48.7	2950	4550	2.5	2.04	52.5	4150	5750	190	165	230	250	215	295
120	Circular	2.8	0.6	4 x 0.8	2.04	52.5	3550	5550	2.5	2.20	56.1	4850	6850	220	190	260	280	240	335
150	Circular	2.8	0.6	4 x 0.8	2.20	55.6	3975	6500	2.5	2.20	59.0	5250	7800	245	210	295	310	270	380
185	Circular	2.8	0.6	4 x 0.8	2.20	59.6	4550	7650	2.5	2.36	63.4	6000	9100	275	240	335	350	305	430
240	Circular	2.8	0.7	4 x 0.8	2.36	65.3	5450	9500	3.15	2.52	70.3	7725	11800	315	275	395	400	350	500
300	Circular	3.0	0.7	4 x 0.8	2.52	71.0	6375	11400	3.15	2.68	76.0	8750	13800	355	310	450	445	390	570
400	Circular	3.3	0.7	4 x 0.8	2.84	79.3	8000	14750	4.0	3.00	85.9	11875	18600	400	350	520	500	440	650

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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					
														Aluminium			Copper		
				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	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Single way buried Duct @ 30°C
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
35	Circular	3.6	0.5	4 x 0.8	1.72	42.7	2200	2800	2.0	1.88	45.3	2900	3500	115	97	125	145	125	165
50	Circular	3.6	0.5	4 x 0.8	1.88	45.2	2550	3400	2.5	2.04	48.8	3650	4500	130	115	150	170	150	195
70	Circular	3.6	0.5	4 x 0.8	1.88	48.5	2850	4050	2.5	2.04	52.1	4000	5200	160	140	190	210	180	240
95	Circular	3.6	0.6	4 x 0.8	2.04	52.5	3350	4950	2.5	2.20	56.1	4600	6250	190	165	230	250	215	295
120	Circular	3.6	0.6	4 x 0.8	2.20	56.0	3900	5950	2.5	2.20	59.4	5200	7200	220	190	260	280	240	335
150	Circular	3.6	0.6	4 x 0.8	2.20	59.0	4400	6900	2.5	2.36	62.8	5800	8350	245	210	295	310	270	380
185	Circular	3.6	0.7	4 x 0.8	2.36	63.5	4925	8050	3.15	2.52	68.3	7125	10250	275	240	335	350	305	430
240	Circular	3.6	0.7	4 x 0.8	2.52	68.8	5950	10000	3.15	2.68	73.7	8350	12400	315	275	395	400	350	500
300	Circular	3.6	0.7	4 x 0.8	2.68	73.4	6800	11900	3.15	2.84	78.3	9400	14450	355	310	450	445	390	570
400	Circular	3.6	0.7	4 x 0.8	2.84	80.5	8200	14950	4.0	3.00	87.1	12100	18800	400	350	520	500	440	650

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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					
														Aluminium			Copper		
				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	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
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
35	Circular	5.5	0.5	4 x 0.8	2.04	51.3	3000	3600	2.5	2.20	55.5	4250	4850	115	97	125	145	125	165
50	Circular	5.5	0.6	4 x 0.8	2.20	54.0	3300	4150	2.5	2.20	57.8	4600	5400	130	115	150	170	150	195
70	Circular	5.5	0.6	4 x 0.8	2.20	57.3	3750	4950	2.5	2.36	61.5	5150	6300	160	140	190	210	180	240
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	230	250	215	295
120	Circular	5.5	0.7	4 x 0.8	2.36	64.6	4850	6850	3.15	2.52	70.0	7100	9150	220	190	260	280	240	335
150	Circular	5.5	0.7	4 x 0.8	2.52	67.8	5300	7850	3.15	2.68	73.3	7600	10150	245	210	295	310	270	380
185	Circular	5.5	0.7	4 x 0.8	2.68	72.2	5975	9100	3.15	2.84	77.6	8500	11600	275	240	335	350	305	430
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	275	395	400	350	500
300	Circular	5.5	0.7	4 x 0.8	3.0	82.2	7850	12900	4.0	3.00	89.0	11750	16800	355	310	450	445	390	570
400	Circular	5.5	0.7	4 x 0.8	3.0	89.1	9400	16150	4.0	3.00	96.0	13650	20400	400	350	520	500	440	650

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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					
														Aluminium			Copper		
				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	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
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
35	Circular	6.0	0.6	4 x 0.8	2.04	53.8	3150	3750	2.5	2.20	57.6	4450	5000	110	98	130	145	125	165
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	115	155	170	150	200
70	Circular	6.0	0.6	4 x 0.8	2.36	60.1	4100	5300	2.5	2.36	63.5	5500	6700	160	140	190	205	180	245
95	Circular	6.0	0.7	4 x 0.8	2.36	63.7	4550	6150	3.15	2.52	68.7	6750	8350	190	170	230	245	215	300
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	190	265	275	245	340
150	Circular	6.0	0.7	4 x 0.8	2.68	70.2	5650	8200	3.15	2.68	74.9	8100	10650	240	215	300	305	275	385
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	240	340	345	305	435
240	Circular	6.0	0.7	4 x 0.8	2.84	80.0	7250	11300	4.0	3.00	86.7	11200	15250	310	275	400	395	350	510
300	Circular	6.0	0.7	4 x 0.8	3.00	84.7	8200	13300	4.0	3.00	91.1	12300	17350	350	310	455	440	390	580
400	Circular	6.0	0.7	4 x 0.8	3.00	91.2	9950	16750	4.0	3.00	97.6	14350	21000	395	355	530	495	440	660

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THREE CORE, ALUMINIUM & COPPER CONDUCTOR, XLPE INSULATED, ARMOURED CABLE CONFORMING TO IS: 7098 (PART-2)

Voltage Grade : 19/33 kV (E)

WEIGHT & DIMENSIONS

					Strip Armoured Cable						Round Wire Armoured Cable						Current Rating							
																	Aluminium				Copper			
					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	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
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																					
Sq.mm.	O	mm	mm		mm x mm	mm	mm	Kg./Km	Kg./Km	mm	mm	mm	Kg./Km	Kg./Km	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	115	155	170	150	200
70	Circular	8.8	0.7		4 x 0.8	2.68	72.6	5550	6750	3.15	2.84	77.5	8100	9250	160	140	190	205	180	245
95	Circular	8.8	0.7		4 x 0.8	2.84	76.4	6200	7850	3.15	3.00	81.5	8850	10500	190	170	230	245	215	300
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	190	265	275	245	340
150	Circular	8.8	0.7		4 x 0.8	3.00	83.0	7450	10000	4.0	3.00	89.4	11400	13900	240	215	300	305	275	385
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	240	340	345	305	435
240	Circular	8.8	0.7		4 x 0.8	3.00	92.1	9300	13300	4.0	3.00	98.5	13650	17700	310	275	400	395	350	510
300	Circular	8.8	0.7		4 x 0.8	3.00	96.5	10250	15300	4.0	3.00	102.9	14850	19900	350	310	455	440	390	580
400	Circular	8.8	0.7		4 x 0.8	3.00	103.0	11750	18500	4.0	3.00	109.4	16700	23450	395	355	530	495	440	660

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

- ✓ Dielectric losses are very small
- ✓ Higher current carrying capacity
- ✓ Higher short circuit rating 250°C as against 160 °C for PVC
- ✓ KEI XLPE can retain flexibility down upto - 40°C
- ✓ Jointing and termination is easy
- ✓ Light in weight
- ✓ They are not prone to fatigue damages due to vibrations or loading cycles
- ✓ Has better resistance to most chemicals, oils, acids, etc.
- ✓ Can be installed along cable routes without elevation limitations

Comparison of main properties between PVC and XLPE Insulation

Characteristics	Unit	PVC	XLPE
Permitivity (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

RATING FACTORS (PVC)

The current ratings in Table - 1 & 2 based on the normal conditions of installation as described below:

1. Maximum condr. temperature 70° C
2. Ambient air temperature 40° C
3. Ground temperature 30° C
4. Depth of laying (for cable laid directly in ground) 75 cm (1.1 kV)
5. Thermal resistivity of soil 150° C cm/watt
6. Thermal resistivity of cable 650° C cm/watt
7. Max. short-circuit conductor temperature 160° C
8. Max. Ambient Air Temperature 55° C
9. Min Ambient Air temperature -15° C

Installation method and Rating factors are given in tables 1 to 6

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	55
Rating factor	1.17	1.12	1.06	1.0	0.94	0.87	0.79	0.70	0.60

Table 2

Rating factors for variation in ambient air temperature

Air temperature (°C)	25	30	35	40	45	50	55
Rating factor	1.25	1.16	1.09	1.0	0.90	0.80	0.69

Table 3

Rating factors of groups of twin and multicore cables laid directly in ground in horizontal formation

No. of cables	Rating factor for axial spacing				
	Touching	15 cm	30 cm	45 cm	60 cm
2 cables	0.78	0.81	0.85	0.88	0.90
3 cables	0.68	0.71	0.77	0.81	0.83
4 cables	0.61	0.65	0.72	0.76	0.79
6 cables	0.53	0.58	0.66	0.71	0.76
8 cables	0.48	0.54	0.62	0.67	0.72

Table 4

Rating Factors of groups of Twin and Multicore cables laid directly in Ground in Tier formation

No. of cables	Rating factor for axial spacing				
	Touching	15 cm	30 cm	45 cm	60 cm
4 cables	0.60	0.67	0.73	0.76	0.78
6 cables	0.51	0.57	0.63	0.67	0.69
8 cables	0.45	0.51	0.57	0.59	0.61

Table 5

Rating factors for variation in depth of laying in ground

Depth of laying (cms)	75	90	105	120	150	150 & above
Rating factor upto 25 sq. mm.	1.00	0.99	0.98	0.97	0.96	0.95

Table 6

Group rating factors for cables installed in Ground, separated by more than 7 cms.

No. of cables	1	2	3	4	5	6
Single core D.C. cables & multicore power cables	1.0	0.90	0.80	0.75	0.70	0.65
Single core A.C. cables	1.0	0.80	0.75	0.70	0.65	0.60

1 CORE, ALUMINIUM CONDUCTOR, PVC INSULATED, ARMOURED & UNARMOURED POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

		ARMOURED								UNARMOURED						CURRENT RATINGS							
																Buried Direct in the Ground @ 30°C		In Single way buried Duct @ 30°C		In Air @ 40°C	
Nominal Size of stranded, class-2 conductor as per IS: 8130	Min No. of wires	Thickness of PVC 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	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	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	Thickness of PVC Insulation (nom)	Nom Thickness of Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	2 Cables	3 Cables	2 Cables	3 Cables	2 Cables	3 Cables
		(mm)	(mm)	(mm)	(mm)	(Kg/Km)	Ohms/Km	Ohms/Km	Ohms/Km	uf/Km	Ohms/Km	uf/Km	(mm)	(mm)	(mm)	(Kg/Km)	Amps	Amps	Amps	Amps	Amps	Amps
1C x 4	3	1.3	1.4	1.24	11.1	145	8.89	7.41	85	8.7	1.0	1.8	1.8	0.137	0.58	36	31	33	30	32	27
1C x 6	3	1.3	1.4	1.24	11.6	160	5.53	4.61	100	9.2	1.0	1.8	1.8	0.127	0.68	44	39	42	37	41	35
1C x 10	7	1.3	1.4	1.24	12.6	190	3.70	3.08	120	10.2	1.0	1.8	1.8	0.118	0.83	59	51	56	51	56	47
1C x 16	6	1.3	1.4	1.24	13.3	210	2.29	1.91	140	10.9	1.0	1.8	1.8	0.110	1.01	75	66	71	65	72	64
1C x 25	6	1.5	1.4	1.24	14.9	275	1.44	1.20	200	12.5	1.2	1.8	1.8	0.105	1.05	97	86	93	84	99	84
1C x 35	6	1.5	1.4	1.24	15.9	325	1.04	0.868	225	13.5	1.2	1.8	1.8	0.100	1.22	120	100	110	100	120	105
1C x 50	6	1.7	1.4	1.24	17.4	400	0.769	0.641	300	15.0	1.4	1.8	1.8	0.098	1.22	145	120	130	115	150	130
1C x 70	12	1.7	1.4	1.40	19.4	500	0.532	0.443	375	16.6	1.4	1.8	1.8	0.091	1.43	170	140	155	135	185	155
1C x 95	15	1.9	1.6	1.40	21.9	650	0.384	0.320	490	18.7	1.6	1.8	2.0	0.088	1.47	205	175	180	155	215	190
1C x 120	15	1.9	1.6	1.40	23.3	750	0.304	0.253	575	20.5	1.6	1.8	2.0	0.086	1.62	230	195	200	170	240	220
1C x 150	15	2.1	1.6	1.40	25.1	900	0.247	0.206	700	22.3	1.6	1.8	2.0	0.085	1.62	265	220	220	190	270	250
1C x 185	30	2.3	1.6	1.40	27.4	1050	0.197	0.164	850	24.6	2.0	2.0	2.0	0.084	1.62	300	240	240	210	305	290
1C x 240	30	2.5	1.6	1.56	30.6	1325	0.150	0.125	1050	27.4	2.2	2.0	2.0	0.082	1.72	335	270	270	225	350	335
1C x 300	30	2.7	1.6	1.56	33.1	1550	0.120	0.100	1250	29.9	2.4	2.0	2.0	0.08	1.74	370	295	295	245	395	380
1C x 400	53	3.0	2.0	1.56	37.5	2000	0.093	0.0778	1625	33.7	2.6	2.2	2.0	0.08	1.81	410	325	335	275	455	435
1C x 500	53	3.4	2.0	1.72	41.7	2500	0.073	0.0605	2000	37.5	3.0	2.2	2.2	0.079	1.76	435	345	355	295	490	480
1C x 630	53	3.9	2.0	1.88	46.5	3050	0.056	0.0469	2500	42.3	3.4	2.4	2.0	0.086	1.77	485	390	395	320	560	550
1C x 800	53	3.9	2.0	1.88	50.8	3700	0.044	0.0367	3050	46.6	3.4	2.4	2.0	0.083	1.75	525	442	420	350	640	600
1C x 1000	53	3.9	2.5	2.04	57.5	4500	0.035	0.0291	3700	52.3	3.4	2.6	2.0	0.082	1.94	570	485	445	380	740	720

1 CORE, COPPER CONDUCTOR, PVC INSULATED, ARMOURED & UNARMOURED POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

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	Approx A.C Resistance of Conductor at 70°C	ARMOURED		UNARMOURED		CURRENT RATINGS					
		Thickness of PVC 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 PVC Insulation (nom)	Nom Thickness of Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable			Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	Buried Direct in the Ground @ 30°C		In Single way buried Duct @ 30°C		In Air @ 40°C	
																	2 Cables	3 Cables	2 Cables	3 Cables	2 Cables	3 Cables
		(mm)	(mm)	(mm)	(mm)	(Kg/Km)	(mm)	(mm)	(mm)	(Kg/Km)	Ohms/Km	Ohms/Km	Ohms/Km	uf/Km	Ohms/Km	uf/Km	Amps	Amps	Amps	Amps	Amps	Amps
1C x 4	7	1.3	1.4	1.24	11.1	165	1.0	1.8	8.7	105	4.61	5.53	0.158	0.47	0.137	0.58	46	39	42	38	43	35
1C x 6	7	1.3	1.4	1.24	11.6	200	1.0	1.8	9.2	130	3.08	3.70	0.148	0.56	0.127	0.68	57	49	54	48	54	44
1C x 10	7	1.3	1.4	1.24	12.6	240	1.0	1.8	10.2	175	1.83	2.20	0.138	0.67	0.118	0.83	75	65	72	64	72	60
1C x 16	6	1.3	1.4	1.24	13.3	300	1.0	1.8	10.9	230	1.15	1.38	0.128	0.81	0.110	1.01	94	85	92	83	92	82
1C x 25	6	1.5	1.4	1.24	14.9	425	1.2	1.8	12.5	330	0.727	0.87	0.120	0.87	0.105	1.05	125	110	120	110	125	110
1C x 35	6	1.5	1.4	1.24	15.9	525	1.2	1.8	13.5	425	0.524	0.63	0.114	1.00	0.100	1.22	150	130	140	125	155	130
1C x 50	6	1.7	1.4	1.24	17.4	700	1.4	1.8	15.0	575	0.387	0.464	0.110	1.03	0.098	1.22	180	155	165	150	190	165
1C x 70	12	1.7	1.4	1.40	19.4	900	1.4	1.8	16.6	775	0.268	0.322	0.103	1.21	0.091	1.43	220	190	200	175	235	205
1C x 95	15	1.9	1.6	1.40	21.9	1200	1.6	1.8	18.7	1025	0.193	0.232	0.101	1.27	0.088	1.47	265	220	230	200	275	245
1C x 120	18	1.9	1.6	1.40	23.3	1400	1.6	2.0	20.5	1250	0.153	0.184	0.096	1.42	0.086	1.62	300	250	255	220	310	280
1C x 150	18	2.1	1.6	1.40	25.1	1750	1.8	2.0	22.3	1550	0.124	0.149	0.094	1.42	0.085	1.62	340	280	280	245	345	320
1C x 185	30	2.3	1.6	1.40	27.4	2100	2.0	2.0	24.6	1900	0.0991	0.119	0.092	1.44	0.084	1.62	380	305	305	260	390	370
1C x 240	34	2.5	1.6	1.56	30.6	2700	2.2	2.0	27.4	2400	0.0754	0.090	0.090	1.53	0.082	1.72	420	345	340	285	445	425
1C x 300	34	2.7	1.6	1.56	33.1	3250	2.4	2.0	29.9	2950	0.0601	0.072	0.088	1.56	0.08	1.74	465	375	370	310	500	475
1C x 400	53	3.0	2.0	1.56	37.5	4300	2.6	2.2	33.7	3900	0.047	0.056	0.088	1.56	0.08	1.81	500	400	405	335	570	550
1C x 500	53	3.4	2.0	1.72	41.7	5300	3.0	2.2	37.5	4850	0.0366	0.044	0.087	1.57	0.079	1.76	540	425	430	355	610	590
1C x 630	53	3.9	2.0	1.88	46.5	6650	3.4	2.4	42.3	6100	0.0283	0.034	0.086	1.57	0.077	1.77	590	470	465	375	680	660
1C x 800	53	3.9	2.0	1.88	50.8	8300	3.4	2.4	46.6	7600	0.0221	0.027	0.083	1.75	0.077	1.98	664	530	523	425	766	743
1C x 1000	53	3.9	2.5	2.04	57.5	10200	3.4	2.6	52.3	9400	0.0176	0.021	0.082	1.94	0.076	2.20	733	585	579	467	856	830

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CableGrid Australia Pty Ltd

2 CORE, ALUMINIUM CONDUCTOR, 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		
				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 Outter sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable					Buried Direct in the Ground @ 30 °C	In Single way buried Duct @ 30°C	In Air @ 40°C
				Strip	Wire	Strip	Wire	Strip	Wire	Strip	Wire										
Sq.mm	No's	mm	mm	mm x mm	mm	mm	mm	mm	mm	(Kg/Km)	(Kg/Km)	mm	mm	Kg/Km	Ohm/Km	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps	Amps
2C x 1.5	1	0.8	0.3	—	1.4	—	1.24	—	14.0	—	390	1.8	12.2	160	18.1	21.7	0.126	0.14	18	16	16
2C x 2.5	1	0.9	0.3	—	1.4	—	1.24	—	15.2	—	450	1.8	13.0	200	12.1	14.5	0.119	0.15	25	21	21
2C x 4	3	1.0	0.3	—	1.4	—	1.24	—	16.8	—	520	1.8	15.0	250	7.41	8.89	0.116	0.16	32	27	27
2C x 6	3	1.0	0.3	—	1.4	—	1.24	—	17.8	—	600	1.8	16.0	300	4.61	5.53	0.110	0.19	40	34	35
2C x 10	7	1.0	0.3	—	1.4	—	1.24	—	19.8	—	700	1.8	18.0	350	3.08	3.70	0.100	0.22	55	45	47
2C x 16	6	1.0	0.3	4 x 0.8	1.6	1.4	1.4	18.8	20.4	525	675	1.8	18.0	320	1.91	2.29	0.097	0.29	70	58	59
2C x 25	6	1.2	0.3	4 x 0.8	1.6	1.4	1.4	20.8	22.4	650	850	2.0	20.4	450	1.20	1.44	0.097	0.32	90	76	78
2C x 35	6	1.2	0.3	4 x 0.8	1.6	1.4	1.4	21.8	23.4	750	1000	2.0	21.4	525	0.868	1.04	0.097	0.37	110	92	99
2C x 50	6	1.4	0.3	4 x 0.8	1.6	1.4	1.56	24.3	26.2	925	1200	2.0	23.9	675	0.641	0.769	0.094	0.37	135	115	125
2C x 70	12	1.4	0.3	4 x 0.8	1.6	1.56	1.56	26.7	28.3	1100	1400	2.0	26.0	825	0.443	0.532	0.090	0.44	160	140	150
2C x 95	15	1.6	0.4	4 x 0.8	2.0	1.56	1.56	30.2	32.6	1400	1900	2.2	29.9	1050	0.320	0.384	0.090	0.44	190	170	185
2C x 120	15	1.6	0.4	4 x 0.8	2.0	1.56	1.72	31.7	34.4	1600	2150	2.2	31.4	1275	0.253	0.304	0.087	0.49	210	190	210
2C x 150	15	1.8	0.4	4 x 0.8	2.0	1.72	1.72	35.4	37.8	1950	2550	2.4	35.2	1550	0.206	0.247	0.087	0.49	240	210	240
2C x 185	30	2.0	0.5	4 x 0.8	2.0	1.88	1.88	39.1	41.5	2350	2950	2.4	38.5	1850	0.164	0.197	0.087	0.49	275	240	275
2C x 240	30	2.2	0.5	4 x 0.8	2.5	2.04	2.04	42.5	45.9	2850	3900	2.6	42.0	2300	0.125	0.150	0.087	0.50	320	275	325
2C x 300	30	2.4	0.6	4 x 0.8	2.5	2.20	2.20	48.5	51.9	3500	4625	2.8	48.1	2850	0.100	0.120	0.086	0.52	355	305	365
2C x 400	53	2.6	0.7	4 x 0.8	3.15	2.36	2.52	53.4	58.1	4300	6200	3.2	52.5	3700	0.0778	0.093	0.086	0.53	385	345	420

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CableGrid Australia Pty Ltd

2 CORE COPPER 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		
				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 Outter sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable					Buried Direct in the Ground @ 30 °C	In Single way buried Duct @ 30 °C	In Air @ 40 °C
				Strip	Wire	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	Ohms/Km	Ohms/Km	uF/Km	Amps	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	14.52	0.126	0.14	23	20	20
2C x 2.5	1	0.9	0.3	---	1.4	---	1.24	---	15.2	---	475	1.8	13.0	225	7.41	8.89	0.119	0.15	32	27	27
2C x 4	7	1.0	0.3	---	1.4	---	1.24	---	16.8	---	550	1.8	15.0	300	4.61	5.53	0.116	0.16	41	35	35
2C x 6	7	1.0	0.3	---	1.4	---	1.24	---	17.8	---	650	1.8	16.0	350	3.08	3.70	0.110	0.19	50	44	45
2C x 10	7	1.0	0.3	---	1.4	---	1.24	---	19.8	---	800	1.8	18.0	475	1.83	2.20	0.100	0.22	70	58	60
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	1.38	0.097	0.29	90	75	78
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	0.872	0.097	0.32	115	97	105
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	0.629	0.097	0.37	140	120	125
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	0.464	0.094	0.37	165	145	155
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	0.322	0.090	0.44	205	180	195
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	0.232	0.090	0.44	240	215	230
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	0.184	0.087	0.49	275	235	265
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	0.149	0.087	0.49	310	270	305
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	0.119	0.087	0.49	350	300	350
2C x 240	34	2.2	0.5	4 x 0.8	2.5	2.04	2.04	42.5	45.9	5600	6650	2.6	42.0	5050	0.0754	0.090	0.087	0.50	405	345	410
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	0.0601	0.072	0.086	0.52	450	385	465
2C x 400	53	2.6	0.7	4 x 0.8	3.15	2.36	2.52	53.4	58.1	8850	10750	3.2	52.5	8250	0.0470	0.056	0.086	0.53	490	425	530

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3 CORE, ALUMINIUM CONDUCTOR, 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		
				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 Outter sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable					Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
				Strip	Wire	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	Ohm/Km	Ohm/Km	uF/Km	Amps	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	21.72	0.126	0.14	16	14	13
3C x 2.5	1	0.9	0.3	---	1.4	---	1.24	---	15.8	---	500	1.8	14.0	225	12.1	14.52	0.119	0.15	21	18	18
3C x 4	3	1.0	0.3	---	1.4	---	1.24	---	17.6	---	550	1.8	15.8	275	7.41	8.89	0.116	0.41	28	23	23
3C x 6	3	1.0	0.3	---	1.4	---	1.24	---	18.6	---	625	1.8	16.8	325	4.61	5.53	0.110	0.47	35	30	30
3C x 10	7	1.0	0.3	---	1.4	---	1.4	---	21.2	---	750	1.8	19.0	400	3.08	3.70	0.100	0.56	46	39	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	2.29	0.097	0.76	60	50	51
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	1.44	0.097	0.86	76	63	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	1.04	0.097	0.98	92	77	86
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	0.641	0.769	0.094	1.02	110	95	105
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	0.532	0.090	1.18	135	115	130
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	0.384	0.090	1.20	165	140	155
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	0.304	0.087	1.31	185	155	180
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	0.247	0.087	1.31	210	175	205
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	0.197	0.087	1.31	235	200	240
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	0.150	0.087	1.34	275	235	280
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	0.120	0.086	1.41	305	260	315
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	0.093	0.086	1.45	335	290	375

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3 CORE, COPPER CONDUCTOR, 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		
				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 Outter sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable					Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
				Strip	Wire	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	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps	Amps
3C x 1.5	1	0.8	0.3	---	1.4	---	1.24	---	14.5	---	450	1.8	12.7	200	12.1	14.52	0.126	0.14	21	17	17
3C x 2.5	1	0.9	0.3	---	1.4	---	1.24	---	15.8	---	525	1.8	14.0	250	7.41	8.89	0.119	0.15	27	24	24
3C x 4	7	1.0	0.3	---	1.4	---	1.24	---	17.6	---	625	1.8	15.8	350	4.61	5.53	0.116	0.41	36	30	30
3C x 6	7	1.0	0.3	---	1.4	---	1.24	---	18.6	---	725	1.8	16.8	425	3.08	3.70	0.110	0.47	45	38	39
3C x 10	7	1.0	0.3	---	1.4	---	1.4	---	21.2	---	950	1.8	19.0	575	1.83	2.20	0.100	0.56	60	50	52
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	1.15	1.38	0.097	0.76	77	64	66
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	0.727	0.872	0.097	0.86	99	81	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	0.524	0.629	0.097	0.98	120	99	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	0.387	0.464	0.094	1.02	145	125	135
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	0.268	0.322	0.090	1.18	175	150	165
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	0.193	0.232	0.090	1.20	210	175	200
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	0.153	0.184	0.087	1.31	240	195	230
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	0.124	0.149	0.087	1.31	270	225	265
3C x 185	30	2.0	0.5	4 x 0.8	2.5	1.88	2.04	44.2	47.9	6450	7600	2.6	44.0	5800	0.0991	0.119	0.087	1.31	300	255	305
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	0.0754	0.090	0.087	1.34	345	295	355
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	0.0601	0.072	0.086	1.41	385	335	400
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	0.047	0.056	0.086	1.45	425	360	455

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CableGrid Australia Pty Ltd

3.5 CORE, COPPER CONDUCTOR, 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 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	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	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	99	81	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	120	99	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	0.464	0.094	1.02	145	125	135
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	150	165
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	175	200
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	240	195	230
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	270	225	265
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	255	305
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	295	355
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	385	335	400
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	425	360	455

3.5 CORE, COPPER CONDUCTOR, 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)	TMin thickness of PVC Inner Sheath	Nom Thickness of PVC Outter 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	Approx. Capacitance	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	1.2/1.0	0.3	2.0	23.4	1150	0.727	0.872	0.097	0.86	99	81	90
3.5C x 35/16	6/6	1.2/1.0	0.3	2.0	24.4	1450	0.524	0.629	0.097	0.98	120	99	110
3.5C x 50/25	6/6	1.4/1.2	0.3	2.0	27.7	2000	0.387	0.464	0.094	1.02	145	125	135
3.5C x 70/35	12/6	1.4/1.2	0.4	2.2	32.2	2700	0.268	0.322	0.090	1.18	175	150	165
3.5C x 95/50	15/6	1.6/1.4	0.4	2.2	35.9	3600	0.193	0.232	0.090	1.2	210	175	200
3.5C x 120/70	18/12	1.6/1.4	0.5	2.4	39.1	4500	0.153	0.184	0.087	1.31	240	195	230
3.5C x 150/70	18/12	1.8/1.4	0.5	2.4	43.4	5400	0.124	0.149	0.087	1.31	270	225	265
3.5C x 185/95	30/15	2.0/1.6	0.5	2.6	48.3	6700	0.0991	0.119	0.087	1.31	300	255	305
3.5C x 240/120	34/18	2.2/1.6	0.6	3.0	55.2	8600	0.0754	0.090	0.087	1.34	345	295	355
3.5C x 300/150	34/18	2.4/1.8	0.6	3.2	59.8	10500	0.0601	0.072	0.086	1.41	385	335	400
3.5C x 400/185	53/30	2.6/2.0	0.7	3.4	68.4	13900	0.047	0.056	0.086	1.45	425	360	455

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CableGrid Australia Pty Ltd

3.5 CORE, ALUMINIUM CONDUCTOR, 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 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	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	1.2/1.0	0.3	4 x 0.8	1.6	1.40	1.40	23.8	25.4	900	1150	1.20	1.44	0.097	0.86	76	63	70
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	0.868	1.04	0.097	0.98	92	77	86
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	0.641	0.769	0.094	1.02	100	95	105
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	0.443	0.532	0.090	1.18	135	115	130
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	0.320	0.384	0.090	1.20	165	140	155
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	0.253	0.304	0.087	1.31	185	155	180
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	0.206	0.247	0.087	1.31	210	175	205
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	0.164	0.197	0.087	1.31	235	200	240
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	0.125	0.150	0.087	1.34	275	235	280
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	0.100	0.120	0.086	1.41	305	260	315
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	0.0778	0.093	0.086	1.45	335	290	375

3.5 CORE, ALUMINIUM CONDUCTOR, 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	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		
											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	1.2/1.0	0.3	2.0	23.4	650	1.20	1.44	0.097	0.86	76	63	70
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	92	77	86
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	110	95	105
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	135	115	130
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	165	140	155
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	155	180
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	210	175	205
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	235	200	240
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	275	235	280
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	315
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	335	290	375

4 CORE ALUMINIUM PVC ARMOURED & UNARMOURED POWER CARLES

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		
				Nominal Dimension of Armour		Min Thickness of PVC Outer sheath		Approx Overall diameter of Cable with ± 2 mm tolerance		Approx weight of cable		Nominal thickness of Outer Sheath	Overall Diameter (Approx) ± 2 mm	Net Weight of Cable (Approx)					Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
				Strip	Wire	Strip	Wire	Strip	Wire	Strip	Wire										
Sq.mm	No's	mm	mm	mm x mm	mm	mm	mm	mm	mm	(Kg/Km)	(Kg/Km)	mm	mm	Kg/Km	Ohm/Km	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps	Amps
4C x 1.5	1	0.8	0.3	-	1.4	-	1.24	-	15.4	-	450	1.8	13.6	200	18.1	21.7	0.126	0.14	16	14	13
4C x 2.5	1	0.9	0.3	-	1.4	-	1.24	-	16.8	-	550	1.8	15.0	250	12.1	14.5	0.119	0.15	21	18	18
4C x 4	3	1.0	0.3	-	1.4	-	1.24	-	18.8	-	625	1.8	17.0	325	7.41	8.89	0.116	0.41	28	23	23
4C x 6	3	1.0	0.3	-	1.4	-	1.24	-	20.0	-	750	1.8	18.2	400	4.61	5.53	0.110	0.47	35	30	30
4C x 10	7	1.0	0.3	4 x 0.8	1.6	1.4	1.4	21.6	23.0	750	950	1.8	20.6	475	3.08	3.70	0.100	0.56	46	39	40
4C x 16	6	1.0	0.3	4 x 0.8	1.6	1.4	1.4	22.2	23.8	725	950	2.0	21.8	500	1.91	2.29	0.097	0.76	60	50	51
4C x 25	6	1.2	0.3	4 x 0.8	1.6	1.4	1.4	23.6	25.2	900	1150	2.0	23.2	700	1.20	1.44	0.097	0.86	76	63	70
4C x 35	6	1.2	0.3	4 x 0.8	1.6	1.4	1.56	25.9	27.8	1100	1400	2.0	25.5	850	0.868	1.04	0.097	0.98	92	77	86
4C x 50	6	1.4	0.4	4 x 0.8	2.0	1.56	1.56	30.3	32.7	1450	1950	2.2	30.0	1150	0.641	0.769	0.094	1.02	110	95	105
4C x 70	12	1.4	0.4	4 x 0.8	2.0	1.56	1.56	33.4	35.8	1800	2350	2.2	33.1	1450	0.443	0.532	0.09	1.18	135	115	130
4C x 95	15	1.6	0.4	4 x 0.8	2.0	1.72	1.72	38.2	40.6	2300	2950	2.4	38.0	1925	0.320	0.384	0.09	1.20	165	140	155
4C x 120	15	1.6	0.5	4 x 0.8	2.0	1.88	1.88	41.7	44.1	2750	3500	2.4	41.1	2250	0.253	0.304	0.087	1.31	185	155	180
4C x 150	15	1.8	0.5	4 x 0.8	2.5	1.88	2.04	44.7	48.4	3250	4400	2.6	44.5	2800	0.206	0.247	0.087	1.31	210	175	205
4C x 185	30	2.0	0.6	4 x 0.8	2.5	2.04	2.2	50.1	53.8	4000	5250	2.8	50.0	3425	0.164	0.197	0.087	1.31	235	200	240
4C x 240	30	2.2	0.6	4 x 0.8	2.5	2.36	2.36	56.7	60.1	5000	6450	3.0	56.4	4325	0.125	0.150	0.087	1.34	275	235	280
4C x 300	30	2.4	0.7	4 x 0.8	3.15	2.52	2.68	62.9	68.0	6100	8300	3.4	63.1	5400	0.100	0.120	0.086	1.41	305	260	315
4C x 400	53	2.6	0.7	4 x 0.8	3.15	2.84	2.84	70.6	75.3	7650	10100	3.6	70.5	6850	0.0778	0.093	0.086	1.45	335	290	375

4 CORE, COPPER CONDUCTOR, 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					CURRENT RATINGS		
				Nominal Dimension of Armour		Min Thickness of PVC Outer sheath		Approx Overall diameter of Cable with ± 2 mm tolerance		Approx weight of cable		Nominal thickness of Outer Sheath	Overall Diameter (Approx) ± 2 mm	Net Weight of Cable (Approx)	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	Buried Direct in the Ground @ 30°C	In Single way buried Duct @ 30°C	In Air @ 40°C
				Strip	Wire	Strip	Wire	Strip	Wire	Strip	Wire										
Sq.mm	No's	mm	mm	mm x mm	mm	mm	mm	mm	mm	(Kg/Km)	(Kg/Km)	mm	mm	Kg/Km	Ohm/Km	Ohm/Km	Ohm/Km	uF/Km	Amps	Amps	Amps
4C x 1.5	1	0.8	0.3	-	1.4	-	1.24	-	15.4	-	500	1.8	13.6	225	12.1	14.5	0.126	0.22	21	17	17
4C x 2.5	1	0.9	0.3	-	1.4	-	1.24	-	16.8	-	600	1.8	15.0	300	7.41	8.89	0.119	0.15	27	24	24
4C x 4	7	1.0	0.3	-	1.4	-	1.24	-	18.8	-	725	1.8	17.0	400	4.61	5.53	0.116	0.41	36	30	30
4C x 6	7	1.0	0.3	-	1.4	-	1.24	-	20.0	-	875	1.8	18.2	525	3.08	3.70	0.110	0.47	45	38	39
4C x 10	7	1.0	0.3	4 x 0.8	1.6	1.4	1.40	21.6	23.0	975	1150	1.8	20.6	700	1.83	2.20	0.100	0.56	60	50	52
4C x 16	6	1.0	0.3	4 x 0.8	1.6	1.4	1.40	22.2	23.8	1100	1300	2.0	21.8	850	1.15	1.38	0.097	0.76	77	64	66
4C x 25	6	1.2	0.3	4 x 0.8	1.6	1.4	1.40	23.6	25.2	1525	1775	2.0	23.2	1250	0.727	0.872	0.097	0.86	99	81	90
4C x 35	6	1.2	0.3	4 x 0.8	1.6	1.4	1.56	25.9	27.8	1950	2250	2.0	25.5	1650	0.524	0.629	0.097	0.98	120	99	110
4C x 50	6	1.4	0.4	4 x 0.8	2.0	1.56	1.56	30.3	32.7	2600	3100	2.2	30.0	2300	0.387	0.464	0.094	1.02	145	125	135
4C x 70	12	1.4	0.4	4 x 0.8	2.0	1.56	1.56	33.4	35.8	3450	4100	2.2	33.1	3050	0.268	0.322	0.09	1.18	175	150	165
4C x 95	15	1.6	0.4	4 x 0.8	2.0	1.72	1.72	38.2	40.6	4550	5200	2.4	38.0	4050	0.193	0.232	0.09	1.20	210	175	200
4C x 120	18	1.6	0.5	4 x 0.8	2.0	1.88	1.88	41.7	44.1	5550	6300	2.4	41.1	5000	0.153	0.184	0.087	1.31	240	195	230
4C x 150	18	1.8	0.5	4 x 0.8	2.5	1.88	2.04	44.7	48.4	6800	8000	2.6	44.5	6200	0.124	0.149	0.087	1.31	270	225	265
4C x 185	30	2.0	0.6	4 x 0.8	2.5	2.04	2.20	50.1	53.8	8250	9450	2.8	50.0	7600	0.0991	0.119	0.087	1.31	300	255	305
4C x 240	34	2.2	0.6	4 x 0.8	2.5	2.36	2.36	56.7	60.1	10500	12000	3.0	56.4	9700	0.0754	0.090	0.087	1.34	345	295	355
4C x 300	34	2.4	0.7	4 x 0.8	3.15	2.52	2.68	62.9	68.0	13000	15400	3.4	63.1	12200	0.0601	0.072	0.086	1.41	385	335	400
4C x 400	53	2.6	0.7	4 x 0.8	3.15	2.84	2.84	70.6	75.3	16800	19500	3.6	70.5	15900	0.047	0.056	0.086	1.45	425	360	455

RATING FACTORS (XLPE)

The current ratings in Table - 1 & 2 based on the normal conditions of installation as described below:

1. Maximum condr. temperature 90° C
2. Ambient air temperature 40° C
3. Ground temperature 30° C
4. Depth of laying (for cable laid directly in ground) 75 cm (1.1 kV)
5. Thermal resistivity of soil 150° C cm/watt
6. Max-short-circuit conductor temperaure 250° C cm/watt
7. 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 °C	25	30	35	40	45	50	55
Rating Factor	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 POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

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	Approx A.C Resistance of Conductor at 90°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	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable			Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	Buried Direct in the Ground @ 30°C		In Single way buried Duct @ 30°C		In Air @ 40°C	
																	2 Cables (Amps)	3 Cables (Amps)	2 Cables (Amps)	3 Cables (Amps)	2 Cables (Amps)	3 Cables (Amps)
Sq.mm	No's	No's	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Ohm/Km	Ohm/Km	Ohm/Km	uF/Km	Ohm/Km	uF/Km						
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	369	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

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1 CORE, COPPER CONDUCTOR, XLPE INSULATED, ARMOURED & UNARMOURED POWER CABLES

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

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	Approx A.C Resistance of Conductor at 90°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	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable			Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	Approx Reactance at 50 Hz	Approx Capacitance at 50 Hz	Buried Direct in the Ground @ 30°C		In Single way buried Duct @ 30°C		In Air @ 40°C	
																	2 Cables (Amps)	3 Cables (Amps)	2 Cables (Amps)	3 Cables (Amps)	2 Cables (Amps)	3 Cables (Amps)
Sq.mm	No's	mm	mm	mm	Kg/Km	Kg/Km	mm	mm	mm	Kg/Km	Ohm/Km	Ohm/Km	Ohm/Km	uF/Km	Ohm/Km	uF/Km						
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	7300	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

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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	Amps
2C x 4	1	0.7	0.3	---	1.4	---	1.24	---	14.9	---	400	7.41	9.48	0.0927	0.065	42	36	38
2C x 4	3	0.7	0.3	---	1.4	---	1.24	---	15.6	---	400	7.41	9.48	0.0927	0.065	42	36	38
2C x 6	1	0.7	0.3	---	1.4	---	1.24	---	15.9	---	450	4.61	5.90	0.0884	0.071	55	46	50
2C x 6	3	0.7	0.3	---	1.4	---	1.24	---	16.6	---	450	4.61	5.90	0.0884	0.081	55	46	50
2C x 10	1	0.7	0.3	---	1.4	---	1.24	---	17.6	---	550	3.08	3.94	0.0837	0.081	68	57	64
2C x 10	7	0.7	0.3	---	1.4	---	1.24	---	18.6	---	550	3.08	3.94	0.0837	0.088	68	57	64
2C x 16	6	0.7	0.3	---	1.4	---	1.4	---	18.8	---	600	1.91	2.44	0.0808	0.089	89	74	83
2C x 25	6	0.9	0.3	4 x 0.8	1.6	1.4	1.4	19.6	21.2	550	750	1.20	1.54	0.08	0.096	114	95	109
2C x 35	6	0.9	0.3	4 x 0.8	1.6	1.4	1.4	20.6	22.2	650	875	0.868	1.11	0.08	0.098	136	113	133
2C x 50	6	1.0	0.3	4 x 0.8	1.6	1.4	1.4	22.7	24.3	800	1050	0.641	0.820	0.078	0.10	161	134	162
2C x 70	12	1.1	0.3	4 x 0.8	1.6	1.56	1.56	25.5	27.1	1000	1250	0.443	0.567	0.077	0.11	197	164	204
2C x 95	15	1.1	0.4	4 x 0.8	2.0	1.56	1.56	28.4	30.8	1250	1700	0.320	0.410	0.074	0.11	235	196	251
2C x 120	15	1.2	0.4	4 x 0.8	2.0	1.56	1.56	30.3	32.7	1450	2000	0.253	0.324	0.072	0.11	266	222	287
2C x 150	15	1.4	0.4	4 x 0.8	2.0	1.72	1.72	33.8	36.2	1750	2300	0.206	0.264	0.072	0.11	296	248	328
2C x 185	30	1.6	0.5	4 x 0.8	2.0	1.72	1.88	37.1	39.9	2100	2700	0.164	0.210	0.072	0.11	335	281	379
2C x 240	30	1.7	0.5	4 x 0.8	2.5	1.88	2.04	40.2	43.9	2550	3500	0.125	0.160	0.072	0.11	385	324	448
2C x 300	30	1.8	0.6	4 x 0.8	2.5	2.04	2.20	45.8	49.5	3050	4200	0.100	0.128	0.071	0.12	432	364	513
2C x 400	53	2.0	0.6	4 x 0.8	2.5	2.36	2.36	50.0	53.9	3900	5100	0.0778	0.100	0.07	0.12	487	412	593

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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	Amps
2C x 4	1	0.7	0.3	1.8	13.1	175	7.41	9.48	0.0927	0.065	42	36	38
2C x 4	3	0.7	0.3	1.8	13.8	175	7.41	9.48	0.0927	0.065	42	36	38
2C x 6	1	0.7	0.3	1.8	14.1	200	4.61	5.90	0.0884	0.071	55	46	50
2C x 6	3	0.7	0.3	1.8	14.8	200	4.61	5.90	0.0884	0.081	55	46	50
2C x 10	1	0.7	0.3	1.8	15.8	250	3.08	3.94	0.0837	0.081	68	57	64
2C x 10	7	0.7	0.3	1.8	16.8	250	3.08	3.94	0.0837	0.088	68	57	64
2C x 16	6	0.7	0.3	1.8	16.8	260	1.91	2.44	0.0808	0.089	89	74	83
2C x 25	6	0.9	0.3	2.0	19.2	375	1.20	1.54	0.08	0.096	114	95	109
2C x 35	6	0.9	0.3	2.0	20.2	450	0.868	1.11	0.08	0.098	136	113	133
2C x 50	6	1.0	0.3	2.0	22.3	575	0.641	0.820	0.078	0.10	161	134	162
2C x 70	12	1.1	0.3	2.0	24.8	725	0.443	0.567	0.077	0.11	197	164	204
2C x 95	15	1.1	0.4	2.2	28.1	950	0.320	0.410	0.074	0.11	235	196	251
2C x 120	15	1.2	0.4	2.2	30.0	1100	0.253	0.324	0.072	0.11	266	222	287
2C x 150	15	1.4	0.4	2.2	33.2	1400	0.206	0.264	0.072	0.11	296	248	328
2C x 185	30	1.6	0.5	2.4	36.9	1650	0.164	0.210	0.072	0.11	335	281	379
2C x 240	30	1.7	0.5	2.6	40.0	2050	0.125	0.160	0.072	0.11	385	324	448
2C x 300	30	1.8	0.6	2.8	45.7	2500	0.100	0.128	0.071	0.12	432	364	513
2C x 400	53	2.0	0.6	3.0	50.2	3250	0.0778	0.100	0.07	0.12	487	412	593

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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 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
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	566
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

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CableGrid Australia Pty Ltd

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	4800	0.0754	0.097	0.072	0.11	486	409	566
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

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CableGrid Australia Pty Ltd

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 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
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	1.24	1.4	17.8	19.7	530.0	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	20.1	21.7	725	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	22.2	23.8	850	1025	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	1250	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	1800	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	2100	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	2550	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	3050	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	3950	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	4600	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	5500	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	7600	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 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	Ohms/Km	uF/Km	Amps	Amps	Amps
3C x 4	1	0.7	0.3	1.8	13.7	200	7.41	9.48	0.0927	0.22	35	30	32
3C x 4	3	0.7	0.3	1.8	14.5	200	7.41	9.48	0.0927	0.22	35	30	32
3C x 6	1	0.7	0.3	1.8	14.8	225	4.61	5.90	0.0884	0.25	46	38	42
3C x 6	3	0.7	0.3	1.8	15.5	225	4.61	5.90	0.0884	0.25	46	38	42
3C x 10	1	0.7	0.3	1.8	16.6	300	3.08	3.94	0.0837	0.31	57	48	54
3C x 10	7	0.7	0.3	1.8	17.7	300	3.08	3.94	0.0837	0.31	57	48	54
3C x 16	6	0.7	0.3	1.8	17.3	325	1.91	2.44	0.0808	0.36	74	61	69
3C x 25	6	0.9	0.3	2.0	19.7	500	1.20	1.54	0.08	0.41	95	79	93
3C x 35	6	0.9	0.3	2.0	21.8	600	0.868	1.11	0.08	0.47	114	94	114
3C x 50	6	1.0	0.3	2.0	24.2	750	0.641	0.820	0.078	0.50	134	112	138
3C x 70	12	1.1	0.4	2.2	28.6	1025	0.443	0.567	0.077	0.53	164	137	175
3C x 95	15	1.1	0.4	2.2	30.8	1250	0.320	0.410	0.074	0.61	197	164	216
3C x 120	15	1.2	0.4	2.2	35.4	1550	0.253	0.324	0.072	0.63	223	187	249
3C x 150	15	1.4	0.5	2.4	39.0	1975	0.206	0.264	0.072	0.63	249	209	284
3C x 185	30	1.6	0.5	2.6	43.1	2350	0.164	0.210	0.072	0.63	282	238	329
3C x 240	30	1.7	0.6	2.8	46.2	2950	0.125	0.160	0.072	0.63	327	276	392
3C x 300	30	1.8	0.6	3.0	51.6	3600	0.100	0.128	0.071	0.67	369	312	452
3C x 400	53	2.0	0.7	3.2	58.2	4650	0.0778	0.100	0.07	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	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	Amps
3C x 4	1	0.7	0.3	---	1.4	---	1.24	---	15.5	---	500	4.61	5.90	0.0927	0.22	45	38	41
3C x 4	7	0.7	0.3	---	1.4	---	1.24	---	16.3	---	500	4.61	5.90	0.0927	0.22	45	38	41
3C x 6	1	0.7	0.3	---	1.4	---	1.24	---	16.6	---	625	3.08	3.94	0.0884	0.25	56	47	52
3C x 6	7	0.7	0.3	---	1.4	---	1.24	---	17.3	---	625	3.08	3.94	0.0884	0.25	56	47	52
3C x 10	7	0.7	0.3	---	1.4	---	1.24	---	19.5	---	800	1.83	2.34	0.0837	0.31	74	62	70
3C x 16	6	0.7	0.3	4 x 0.8	1.6	1.24	1.40	17.8	19.7	825	1000	1.15	1.47	0.0808	0.36	95	79	89
3C x 25	6	0.9	0.3	4 x 0.8	1.6	1.40	1.40	20.1	21.7	1150	1350	0.727	0.931	0.080	0.41	122	102	119
3C x 35	6	0.9	0.3	4 x 0.8	1.6	1.40	1.40	22.2	23.8	1450	1650	0.524	0.671	0.080	0.47	146	122	147
3C x 50	6	1.0	0.3	4 x 0.8	1.6	1.40	1.56	24.6	26.5	1900	2200	0.387	0.495	0.078	0.50	173	144	179
3C x 70	12	1.1	0.4	4 x 0.8	2.0	1.56	1.56	28.9	31.3	2550	3050	0.268	0.343	0.077	0.53	212	177	226
3C x 95	15	1.1	0.4	4 x 0.8	2.0	1.56	1.56	31.1	33.5	3250	3800	0.193	0.247	0.074	0.61	254	212	279
3C x 120	18	1.2	0.4	4 x 0.8	2.0	1.56	1.72	35.7	38.4	4000	4650	0.153	0.196	0.072	0.63	287	240	320
3C x 150	18	1.4	0.5	4 x 0.8	2.0	1.72	1.88	39.2	42.0	4950	5650	0.124	0.159	0.072	0.63	321	269	365
3C x 185	30	1.6	0.5	4 x 0.8	2.5	1.88	2.04	43.3	47.0	6000	7100	0.0991	0.127	0.072	0.63	362	304	422
3C x 240	34	1.7	0.6	4 x 0.8	2.5	2.04	2.20	46.3	50.0	7600	8850	0.0754	0.097	0.072	0.63	418	352	500
3C x 300	34	1.8	0.6	4 x 0.8	2.5	2.20	2.36	51.6	53.3	9350	10750	0.0601	0.077	0.071	0.67	469	396	574
3C x 400	53	2.0	0.7	4 x 0.8	3.15	2.52	2.68	58.4	63.3	12200	14400	0.0470	0.060	0.070	0.67	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	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

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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

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CableGrid Australia Pty Ltd

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 (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	1300	1550	0.727	0.931	0.080	0.41	122	102	119
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	1625	1850	0.524	0.671	0.080	0.47	146	122	147
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	2150	2500	0.387	0.495	0.078	0.50	173	144	179
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	2900	3450	0.268	0.343	0.077	0.53	212	177	226
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	3800	4350	0.193	0.247	0.074	0.61	254	212	279
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	4750	5400	0.153	0.196	0.072	0.63	287	240	320
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	5650	6400	0.124	0.159	0.072	0.63	321	269	365
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	6975	8200	0.0991	0.127	0.072	0.63	362	304	422
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	8800	10100	0.0754	0.097	0.072	0.63	418	352	500
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	10800	12350	0.0601	0.077	0.071	0.67	469	396	574
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	14050	16450	0.0470	0.060	0.070	0.67	528	447	662

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 (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	1050	0.727	0.931	0.080	0.41	122	102	119
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	147
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	179
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	226
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	279
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	320
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	365
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	422
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	500
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	574
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	662

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 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
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	1650	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

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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 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
4C x 4	1	0.7	0.3	1.8	14.7	225	7.41	9.48	0.0927	0.22	35	30	32
4C x 4	3	0.7	0.3	1.8	15.5	225	7.41	9.48	0.0927	0.22	35	30	32
4C x 6	1	0.7	0.3	1.8	15.9	260	4.61	5.90	0.0884	0.25	46	38	42
4C x 6	3	0.7	0.3	1.8	16.7	260	4.61	5.90	0.0884	0.25	46	38	42
4C x 10	1	0.7	0.3	1.8	17.9	350	3.08	3.94	0.0837	0.31	57	48	54
4C x 10	7	0.7	0.3	1.8	19.2	350	3.08	3.94	0.0837	0.31	57	48	54
4C x 16	6	0.7	0.3	1.8	20.4	425	1.91	2.44	0.0808	0.36	74	61	69
4C x 25	6	0.9	0.3	2.0	21.8	600	1.20	1.54	0.080	0.41	95	79	93
4C x 35	6	0.9	0.3	2.0	24.0	750	0.868	1.11	0.080	0.47	114	94	114
4C x 50	6	1.0	0.3	2.0	27.2	975	0.641	0.820	0.078	0.50	134	112	138
4C x 70	12	1.1	0.4	2.2	31.8	1300	0.443	0.567	0.077	0.53	164	137	175
4C x 95	15	1.1	0.4	2.2	34.9	1600	0.320	0.410	0.074	0.61	197	164	216
4C x 120	15	1.2	0.5	2.4	38.9	2050	0.253	0.324	0.072	0.63	223	187	249
4C x 150	15	1.4	0.5	2.6	42.4	2500	0.206	0.264	0.072	0.63	249	209	284
4C x 185	30	1.6	0.5	2.8	47.7	3050	0.164	0.210	0.072	0.63	282	238	329
4C x 240	30	1.7	0.6	3.0	53.8	3850	0.125	0.160	0.072	0.63	327	276	392
4C x 300	30	1.8	0.7	3.2	59.6	4800	0.100	0.128	0.071	0.67	369	312	452
4C x 400	53	2.0	0.7	3.6	67.3	6175	0.0778	0.100	0.07	0.67	420	356	526

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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	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

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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	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
4C x 4	1	0.7	0.3	1.8	14.8	300	4.61	5.90	0.0927	0.22	45	38	41
4C x 4	7	0.7	0.3	1.8	15.5	300	4.61	5.90	0.0927	0.22	45	38	41
4C x 6	1	0.7	0.3	1.8	16.0	400	3.08	3.94	0.0884	0.25	56	47	52
4C x 6	7	0.7	0.3	1.8	16.7	400	3.08	3.94	0.0884	0.25	56	47	52
4C x 10	7	0.7	0.3	1.8	19.6	575	1.83	2.34	0.0837	0.31	74	62	70
4C x 16	6	0.7	0.3	1.8	21.0	775	1.15	1.47	0.0808	0.36	95	79	89
4C x 25	6	0.9	0.3	2.0	22.4	1150	0.727	0.93	0.080	0.41	122	102	119
4C x 35	6	0.9	0.3	2.0	24.6	1550	0.524	0.67	0.080	0.47	146	122	147
4C x 50	6	1.0	0.3	2.0	27.8	2100	0.387	0.495	0.078	0.50	173	144	179
4C x 70	12	1.1	0.4	2.2	32.0	2900	0.268	0.343	0.077	0.53	212	177	226
4C x 95	15	1.1	0.4	2.2	35.5	3800	0.193	0.247	0.074	0.61	254	212	279
4C x 120	18	1.2	0.5	2.4	39.5	4775	0.153	0.196	0.072	0.63	287	240	320
4C x 150	18	1.4	0.5	2.6	43.0	5900	0.124	0.159	0.072	0.63	321	269	365
4C x 185	30	1.6	0.5	2.8	48.3	7250	0.0991	0.127	0.072	0.63	362	304	422
4C x 240	34	1.7	0.6	3.0	54.6	9300	0.0754	0.097	0.072	0.63	418	352	500
4C x 300	34	1.8	0.7	3.2	60.6	11600	0.0601	0.077	0.071	0.67	469	396	574
4C x 400	53	2.0	0.7	3.6	68.3	15250	0.0470	0.060	0.070	0.67	528	447	662

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CableGrid Australia Pty Ltd

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/ DrumLength	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	23	20
3C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	14.5	400	1000	21	17
4C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	15.4	450	1000	21	17
5C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	16.3	500	1000	16	14
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	19.4	750	1000	13	11
12C x 1.5	0.8	0.3	4 x 0.8	1.24	18.4	675	1.6	1.4	20.4	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	32	27
3C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	15.8	500	1000	27	24
4C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	16.8	550	1000	27	24
5C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	17.9	625	1000	23	19
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	20.3	850	1.6	1.4	21.9	975	1000	18	15
12C x 2.5	0.9	0.3	4 x 0.8	1.4	21.1	900	1.6	1.4	22.6	1100	1000	17	14
14C x 2.5	0.9	0.3	4 x 0.8	1.4	25.4	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	26.5	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	27.7	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	31.6	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	32.2	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	33.6	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	36.7	2050	2.0	1.56	36.7	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	23	20
3C x 1.5	0.8	0.3	1.8	12.7	175	1000	21	17
4C x 1.5	0.8	0.3	1.8	13.6	200	1000	21	17
5C x 1.5	0.8	0.3	1.8	14.5	250	1000	16	14
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	17.2	400	1000	13	11
12C x 1.5	0.8	0.3	1.8	17.8	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	21.2	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	32	27
3C x 2.5	0.9	0.3	1.8	14.0	225	1000	27	24
4C x 2.5	0.9	0.3	1.8	15.0	275	1000	27	24
5C x 2.5	0.9	0.3	1.8	16.1	325	1000	23	19
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	19.3	550	1000	18	15
12C x 2.5	0.9	0.3	2.0	20.4	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	33.7	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 2outer 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/ DrumLength	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	33	29
3C x 1.5	0.7	0.3	---	---	---	---	1.4	1.24	14.1	375	1000	25	22
4C x 1.5	0.7	0.3	---	---	---	---	1.4	1.24	14.9	425	1000	25	22
5C x 1.5	0.7	0.3	---	---	---	---	1.4	1.24	15.8	475	1000	24	21
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	18.3	700	1000	18	16
12C x 1.5	0.7	0.3	---	---	---	---	1.4	1.24	18.9	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	39	32
3C x 2.5	0.7	0.3	---	---	---	---	1.4	1.24	15.0	425	1000	34	30
4C x 2.5	0.7	0.3	---	---	---	---	1.4	1.24	15.9	500	1000	34	30
5C x 2.5	0.7	0.3	---	---	---	---	1.4	1.24	16.9	550	1000	31	28
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	18.5	725	1.6	1.4	20.5	925	1000	24	21
12C x 2.5	0.7	0.3	4 x 0.8	1.4	19.6	800	1.6	1.4	21.2	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	25.2	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	33	29
3C x 1.5	0.7	0.3	1.8	12.3	160	1000	25	22
4C x 1.5	0.7	0.3	1.8	13.1	200	1000	25	22
5C x 1.5	0.7	0.3	1.8	14.0	225	1000	24	21
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	16.5	340	1000	18	16
12C x 1.5	0.7	0.3	1.8	17.1	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	34.3	1500	1000	9	8
2C x 2.5	0.7	0.3	1.8	12.6	175	1000	39	32
3C x 2.5	0.7	0.3	1.8	13.2	200	1000	34	30
4C x 2.5	0.7	0.3	1.8	14.1	250	1000	34	30
5C x 2.5	0.7	0.3	1.8	15.1	275	1000	31	28
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	17.0	475	1000	24	21
12C x 2.5	0.7	0.3	1.8	18.6	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 : 70^0 C/85^0 C. Grade PVC, Polyethylene, Halogen Free FRLS Polymeric Compounds.

Elements : Pairs/Triples/Quads, colour coded/number printed ring marked/dual colour extruded.

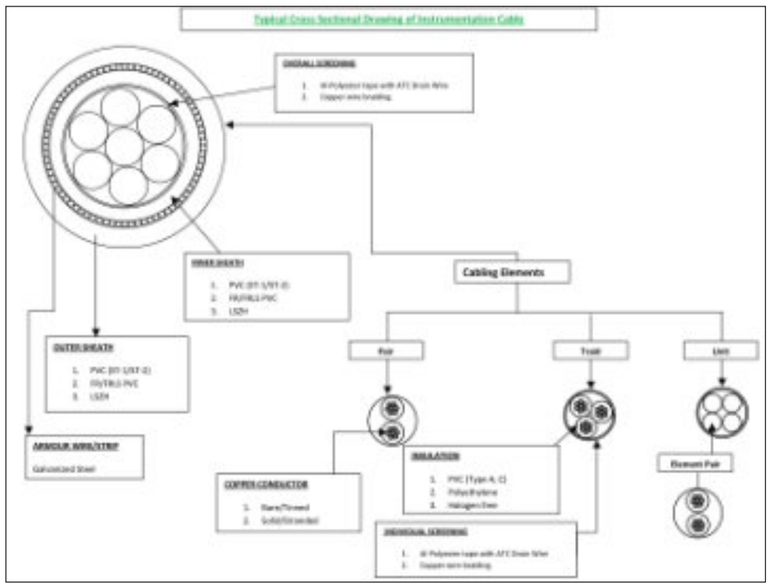
Shields : Aluminimum Polyester tape screen with Copper drain wire or alternately with with Copper wire braiding. Individual element or overall shielding as specified.

Element laying : Concentric formation or unit & group formation as per applicable specification.

Amounting : Galvanised steel wire/strip amount.

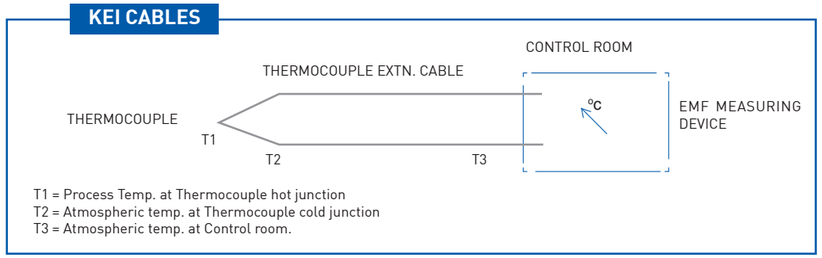
Sheathing : PVC 70^0 C/90^0 C grade, PVC FRLS, ZHFR, CSP, PCP, EVA, etc.

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
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%
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.
	Sq. Mm	Number / mm	mm	mm	PVC	HR PVC	FRLS	ZHFR	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.	Number/ size of Wire	Insulation Thickness (Nom.)	Sheath Thickness (Nom.)	Width 'W' (Approx)	Thickness 'T' (Approx)	Resistance at 20°C (Max.)	Current carrying capacity at 40°C
	mm	No./mm	mm	mm	mm	mm	ohm/Km	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-Sulphoneted Polyethelene (CSP), Nitrile Rubber / PVC blends, Ethylene Propelene Rubber (EPR), Ethylene Vinyle 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

Seperator Tape – Suitable material seperator 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 opertation °C.	Max. Cond. Temp. for short circuit °C.	Min. Working Temp. °C.
Ethylene Propylene Rubber (EPR)	90	250	-50
Polychloroprene (PCP)	70	200	-40
Chlorosupphonated Polyethylene (CSP)	90	200	-35
Silicone Rubber	150/180	350	55
Chloropropylene Ethylene (CPE)	90	250	-30
Styrene Butaolence 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
mm²	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

Elaslomenc Cables Range	Application
Cables up to 11 kV	Machine Trailling. 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	Elaslomeric 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 NONTOXIC COMPOUNDS
Braiding Offered	ATC, Gl 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 confirming 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-compacted		Compacted		Plain Copper	Aluminium	Plain Copper	Aluminium	Plain Copper	Aluminium	PLAIN COPPER	ALUMINIUM
	COPPER	ALUMINIUM	COPPER	ALUMINIUM	PLAIN COPPER	ALUMINIUM	PLAIN COPPER	ALUMINIUM	PLAIN COPPER	ALUMINIUM	Ohm/Km	
No's	No's	No's	No's	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	-	-	7.41	12.1	8.89	14.5	9.34	15.2	9.48	15.5
4	7	3	-	-	4.61	7.41	5.53	8.89	5.81	9.3	5.90	9.48
6	7	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	1.83	1.38	2.29	1.45	2.41	1.47	2.44
25	7	7	6	6	0.727	1.15	0.872	1.44	0.916	1.51	0.931	1.54
35	7	7	6	6	0.524	0.727	0.629	1.04	0.660	1.09	0.671	1.11
50	19	19	6	6	0.387	0.524	0.464	0.769	0.488	0.808	0.495	0.820
70	19	19	12	12	0.268	0.387	0.322	0.532	0.338	0.558	0.343	0.567
95	19	19	15	15	0.193	0.268	0.232	0.384	0.243	0.403	0.247	0.410
120	37	37	18	15	0.153	0.193	0.184	0.304	0.193	0.319	0.196	0.324
150	37	37	18	15	0.124	0.153	0.149	0.247	0.156	0.260	0.159	0.264
185	37	37	30	30	0.0991	0.124	0.119	0.197	0.125	0.207	0.127	0.210
240	61	37	34	30	0.0754	0.0991	0.090	0.150	0.095	0.158	0.097	0.160
300	61	61	34	30	0.0601	0.0754	0.072	0.120	0.076	0.126	0.077	0.128
400	61	61	53	53	0.0470	0.0601	0.056	0.093	0.059	0.098	0.060	0.100
500	61	61	53	53	0.0366	0.0470	0.044	0.073	0.046	0.076	0.047	0.077
630	91	91	53	53	0.0283	0.0366	0.034	0.056	0.036	0.059	0.036	0.060
800	91	91	53	53	0.0221	0.0283	0.027	0.044	0.028	0.046	0.028	0.047
1000	91	91	53	53	0.0176	0.0221	0.021	0.035	0.022	0.037	0.023	0.037
1200	-	-	-	-	0.0151	-	-	-	-	-	0.019	0.032
1400	-	-	-	-	0.0129	-	-	-	-	-	0.017	0.027
1600	-	-	-	-	0.0113	-	-	-	-	-	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/Milliken (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)	
Sq.mm	COPPER	ALUMINIUM	COPPER	ALUMINIUM	COPPER	ALUMINIUM
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

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 cable	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	Inground	In Air	Approx Voltage Drop
sq. mm	Amp	Amp	V/Amps/Km	Amp	Amp	V/Amps/Km
16	60	51	4.0	73	70	4.24
25	76	70	2.5	95	93	2.67
35	92	86	1.8	114	114	1.94
50	110	105	1.3	134	138	1.44
70	135	130	0.94	164	175	1.00
95	165	155	0.68	197	216	0.70
120	185	180	0.55	223	249	0.56
150	210	205	0.46	249	284	0.48
185	235	240	0.37	282	329	0.40
240	275	280	0.30	327	392	0.30
300	305	315	0.26	369	452	0.26
400	335	375	0.22	420	526	0.21

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COMPARATIVE CHARACTERISTICS OF TYPICAL ELASTOMERIC AND THERMOPLASTIC INSULATING AND SHEATHING MATERIALS (I)

MATERIAL	NATURAL RUBBER BLENDED WITH SBR	EPR	CSP	PCP	NBR/PVC	SILICONE	EVA	CROSS LINKED PE.	POLY-ETHYLENE	POLY-PROPYLENE	NYLON	ETFE	FEP	PFA	POLYESTER RUBBER (HYTREL)	POLYMIDE (KAPTON)	POLY-URETHENE
USED AS INSULATION	GENERAL PURPOSE	GENERAL PURPOSE HEAT RESISTING	HEAT, OIL & FLAME RESISTANT	SPECIAL CASES		HEAT RESISTING	HEAT RESISTING LOW SMOKE, LOW HALOGEN, FIRE RESISTANT LIMITED OIL RESISTANT	LOW VOLTAGE UPTO 1.1 KV	GENERAL PURPOSE	GENERAL PURPOSE		HEAT RESISTING	HEAT RESISTING	HEAT RESISTING	HEAT RESISTING	HIGH TEMPERATURE CONTAMINATED ATMOSPHERE THIN WALL APPLICATION	
USED AS SHEATH	GENERAL PURPOSE AND HEAVY DUTY	APPLICABLE AS INNER SHEATH	GENERAL PURPOSE & HEAVY DUTY, HEAT, OIL & FLAME RESISTANT	GENERAL PURPOSE & HEAVY DUTY, HEAT, OIL & FLAME RESISTANT	GENERAL PURPOSE & HEAVY DUTY, HEAT, OIL & FLAME RESISTANT	SPECIAL CASES	HEAT, LIMITED OIL RESISTANT				HARD THIN WALL						HIGH RESISTING HYDROLYTICALLY STABLE, EXCELLENT MECH. PROPERTIES
CONDUCTOR TEMPERATURE (°C) MAX. CONTINUOUS OPERATION	60	90	90	90	90	150	110/120	90	70	70	105	150	200	260	120 (intermittent 150)	200	90
CONDUCTOR TEMPERATURE (°C) MAX. SHORT CIRCUIT	200	250	250	250	250	350	250	250	160	160	150	300 (1)	400 (1)	450 (1)	300 (1)	450-550	220
MATERIAL LIMITING TEMPERATURE (°C) MIN. FLEXING DUTY	-55	-40	-30	-30	-20	-50	-45	-30	-60	-15	-40	-160	-160	-180	-45	-50	-25
MATERIAL LIMITING TEMPERATURE (°C) MIN. FOR INSTALLATION	-55	-50	-30	-45	-30	-55	-50	-40	-60	-20	-40	-150	-150	-170	-51	-75	-30
RESISTANT TO : WEATHER																	
: WATER																	
: OIL																	
: CHEMICAL																	
: SOLVENT																	
: CORONA																	
: OZONE																	
: ABRASION																	
: FLAME																	
ELECTRICAL INSULATION RESISTANCE																	
BREAKDOWN VOLTAGE																	
A. C. LOSSES																	
INDIAN STANDARD	IS-6380	IS-6380	IS-6380	IS-6380	IS-6380	IS-6380	NONE	IS-7098(I)	IS-6474	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE
BRITISH STANDARD	BS-6899	BS-6899	BS-6899	BS-6899	BS-6899	BS-6899	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE

VERY GOOD | GOOD | FAIR | POOR | NOT APPLICABLE

NOTE : (1) GENERAL GUIDANCE ONLY, IN SPECIFIC CASES CONSULT THE MANUFACTURER.
(2) THESE ARE USED IN INSTRUMENTATION CABLES, HENCE SHORT CIRCUIT TEMP. ARE NOT RELEVANT. VALUES ARE GIVEN FOR REFERENCE ONLY.

SBR : STYRENE BUTADIENE RUBBER
PCP : POLYCHLOROPRENE
NBR/PVC : ACRYLONITRILE BUTADIENE RUBBER / POLY VINYL CHLORIDE
EPR : ETHYLENE PROPYLENE RUBBER
CSP : CHLOROSULPHONATED POLYETHYLENE
EVA : ETHYLENE VINYL ACETATE
PFA : COPOLYMER OF TETRAFLUORO ETHYLENE AND PERFLUORO ALKYL VINYL ETHER.
FEP : FLOURINATED ETHYLENE PROPYLENE
ETFE : ETHYLENE TETRA FLUORO ETHYLENE

COMPARATIVE CHARACTERISTICS OF TYPICAL POLY VINYL CHLORIDE INSULATING AND SHEATHING MATERIALS (I)

MATERIAL	PVC TYPE 'A'	PVC TYPE 'B'	PVC TYPE 'C'	PVC TYPE 'D'	PVC TYPE 'ST1'	PVC TYPE 'ST2'	PVC TYPE 'ST3'	PVC TYPE 'ST2-FRLS' (2)	PVC TYPE 'ST2-FR' (2)	PVC TYPE 'LOW PERMITIVITY'	PVC TYPE 'LOW TEMP'
USED AS INSULATION	GENERAL PURPOSE	GENERAL PURPOSE (HIGH VOLTAGE >-3.3 KV)	HEAT RESISTING	GENERAL PURPOSE FLEXIBLE						INSULATION FOR INSTRU-MENTATION CABLE	INSULATION FOR VERY LOW TEMP. APPLICATION
USED AS SHEATH					GENERAL PURPOSE	HEAT RESISTING	FLEXIBLE GENERAL PURPOSE	HIGH RESISTING LOW SMOKE, LOW HOLOGEN FIRE RESISTING	HEAT RESISTANT, HIGHLY FIRE RESISTANT		SHEATHING FOR VERY LOW TEMP. APPLICATION
CONDUCTOR TEMPERATURE (°C) MAX. CONTINUOUS OPERATION	70	70	85	70	70	85/90	70	85/90	85/90	85	70
CONDUCTOR TEMPERATURE (°C) MAX. SHORT CIRCUIT	160	160	160	160	160	160	160	160	160	160	120
MATERIAL LIMITING TEMPERATURE (°C) MIN. FLEXING DUTY	-20	+15	-15	-25	-30	-15	-20	-15	-15	-15	-40
MATERIAL LIMITING TEMPERATURE (°C) MIN. FOR INSTALLATION	0	+10	0	-10	-10	0	-10	+10	+10	0	-30
RESISTANT TO : WEATHER											
: WATER											
: OIL											
: CHEMICAL											
: SOLVENT											
: CORONA											
: OZONE											
: ABRASION											
: FLAME											
ELECTRICAL INSULATION RESISTANCE											
BREAKDOWN VOLTAGE											
A. C. LOSSES											
INDIAN STANDARD	IS-5831	IS-5831	IS-5831	IS-5831	IS-5831	IS-5831	IS-5831	IS-5831 (3)	IS-5831 (3)	NONE	NONE
BRITISH STANDARD	BS-6746	BS-6746	BS-6746	NONE	BS-6746	BS-6746	NONE	NONE	NONE	NONE	NONE

VERY GOOD | GOOD | FAIR | POOR | NOT APPLICABLE

NOTE :
(1) GENERAL GUIDANCE ONLY, IN SPECIFIC CASES CONSULT THE MANUFACTURER.
(2) ALSO SUITABLE FOR ST1 - FRLS & ST1-FR.
(3) FRLS & FR PROPERTIES AS PER IS-1554 (PT 1&2) 1988.

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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 availabe, 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 horixontal.

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	
kV	SIngle Core	Multicore
Upto 1.1	15D	15D
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 pitting 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.

KEI Wires and Cables

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