

A Successful team beats with one heart...

1992 self-starter, dedicated engineers ventured to seed the Asia's largest industry of Cable Accessories and Connectors. The values set forth then, has been the cornerstone of group's vision. Today the business of HEX in India and abroad carries the hallmark, that would continue as legacy. As HEX we pay tribute to our founders and pledge to uphold the HEX values and make them a way of life at work, in our personal lives and in the lives of those who we touch.

HEX enjoys a close working relationship with all its retail chains. With an extensive network of dealers and distributors worldwide, you'll never be away from a HEX stockist. HEX ensures the best of advice from its trained staff, backed up with fast product availability.

A HEX customer can always count on a highly structured commercial organization that provides the most complete and advanced, pre and post sales service.

Its centralized services are designed to reap the benefits of economies of scale for newer opportunities and ancillaries. Growth and service is our essence. We are sure you will join those who have discovered HEX's outstanding record and its commitment recognizing its quality and professional service



We have grown wings to reach the summit



AWARDS FOR EXPORT EXCELLENCE
AT BANGLORE FOR THE YEAR 2008-2009



AWARDED BY SHRI SHUBHAS SHIRODKAR
PRESIDENT OF CONGRESS AT GOA FOR ZONE LEVEL



"MAN OF THE YEAR"
FOR PROTECTION OF INFRASTRUCTURE, DUBAI UAE
AT LOS ANGELES, USA FOR THE YEAR 2010



AWARDED BY SHRI MAHESH JETHMALANI
AT MUMBAI FOR CHAPTER LEVEL



JUNIOR CHAMBER INTERNATIONAL, INDIA
KAMAL PATRA AWARD FOR
OUTSTANDING ACHIEVEMENT
IN THE FIELD OF
ENTREPRENEURSHIP, 2010



AWARDS FOR EXPORT EXCELLENCE PRESENTED BY
THE HON'BLE MINISTER OF EXTERNAL AFFAIRS
SHRI PRANAB MUKHERJEE
AT KOLKATTA FOR THE YEAR 2006-2007



AWARDS FOR EXPORT EXCELLENCE PRESENTED BY THE HON'BLE
MINISTER OF INDUSTRIES, EMPLOYMENT & SELF-EMPLOYMENT
SHRI RAJENDRA JAWAHARLAL DARDA
AT MUMBAI FOR THE YEAR 2007-2008



AWARDS FOR EXPORT EXCELLENCE PRESENTED BY
THE HON'BLE UNION MINISTER OF COMMERCE &
INDUSTRY SHRI ASHOK SHARMA
AT BANGLORE FOR THE YEAR 2008-2009



INDEX



1. Annexure 'A' - Machinery / Equipments / Testing Facilities.
2. Annexure 'B' - List of Raw Material Suppliers.
3. Annexure 'C' - Organisational Chart.
4. Annexure 'D' - Plant Layout.
5. Annexure 'E' - Details of Manufacturing Process.
6. Annexure 'F' - S.S.I Registration Certificate.
7. Annexure 'G' - List of Certificates.
8. Annexure 'H' - List of Approval Certificates.
9. Annexure 'I' - List of Approvals.
10. Annexure 'J' - List of Esteemed Clients all over India.

ANNEXURE 'A'

MACHINERY



| SR.NO. | NAME | CAPACITY | QTY. |
|--------|---|----------------------|------|
| 1 | AIR COMPRESSOR | 3 HP - 10 HP | 2 |
| 2 | BRANDSAW CUTTING MACHINE | - | 1 |
| 3 | CUTTER GRINDER | 0.5 HP - 1 HP | 2 |
| 4 | SURFACE GRINDER | 12 INCH | 3 |
| 5 | BENCH GRINDER | 3/4 HP - 1.5 HP | 4 |
| 6 | TOOL GRINDER | 2 HP | 1 |
| 7 | SHAPING MACHINE | Ø 18" & WIDTH 1.5 FT | 1 |
| 8 | DIMPLE & STAMPING MACHINE | 150 PCS / MIN. | 1 |
| 9 | LATHE MACHINE | 4 FT. - 6 FT. | 15 |
| 10 | DRILL MACHINE | ½ INCH - 1 ½ INCH | 16 |
| 11 | DRILL MACHINE | 20 MM | 1 |
| 12 | THREAD MACHINE | 0.5 HP - 2 HP | 4 |
| 13 | TAPPING MACHINE | 10 MM - 15 MM | 3 |
| 14 | SECONDARY CAPSTAN LATHE | 1 HP - 5 HP | 23 |
| 15 | SECONDARY CAPSTAN LATHE | 12 MM - 25 MM | 5 |
| 16 | CAPSTAN TURBO LATHE | 1 INCH | 1 |
| 17 | ROLL THREADING LATHE | - | 1 |
| 18 | ROLL THREADING MACHINE | 3/4 INCH | 4 |
| 19 | BELT DRIVE | 1 HP - 2 HP | 6 |
| 20 | ANNEALING FURNACE | 12 KW - 18 KW | 3 |
| 21 | ROD PACKING MACHINE | 10 - 12 RODS / MIN. | 1 |
| 22 | CONNECTORS PACKING MACHINE | 5 - 6 PKT. / MIN. | 1 |
| 23 | PRINTING MACHINE | - | 2 |
| 24 | BEND SAW MACHINE | 14 INCH | 2 |
| 25 | WELDING MACHINE | 300 AMP. | 1 |
| 26 | SEMI AUTO CAPSTAN TURBO LATHE (SLEEVE MAKING) | 3/4 INCH | 4 |
| 27 | MILLING MACHINE | 18 INCH | 1 |
| 28 | BUFFING & POLISHING MACHINE | 3 HP | 4 |
| 29 | CUTTING MACHINE | 0 HP - 3 HP | 12 |
| 30 | STRIPING MACHINE | 1/3 HP | 2 |

A Whole New Dimension In Quality



ISO 9001: 2000 CERTIFIED COMPANY

ANNEXURE 'A'

MACHINERY



| SR.NO. | NAME | CAPACITY | QTY. |
|--------|---------------------------|--------------------|------|
| 31 | FILTER MACHINE | 1 HP | 2 |
| 32 | SEALING MACHINE | - | 1 |
| 33 | RECTIFIER UNIT | 12 V, 0 - 2250 ADC | 8 |
| 34 | ELECTRICAL HEATER | 0 - 400° C | 1 |
| 35 | ELECTRONIC WEIGHING SCALE | 0 - 500 KGS. | 9 |
| 36 | MECHANICAL POWER PRESS | 5 T - 100 T | 33 |
| 37 | HYDRAULIC PRESS | 10 T - 75 T | 6 |
| 38 | HAND PRESS | 0 NO. - 4 NOS. | 5 |
| 39 | CENTRIFUGAL DRYER | 2 HP | 1 |
| 40 | SLEEVE CUTTING MACHINE | ½ INCH | 1 |
| 41 | SLEEVE CUTTING MACHINE | 2 HP | 1 |

A Whole New Dimension In Quality



ISO 9001: 2000 CERTIFIED COMPANY

ANNEXURE 'A'

EQUIPMENTS



| SR.NO. | INSTRUMENT DESCRIPTION | RANGE | ACCURACY REQ. | QTY. |
|--------|--------------------------------|------------------|---------------------|------|
| 01 | DIGITAL AMMETER | 0 - 2000 ADC | $\pm 0.5 \%$ | 2 |
| | | 0 - 1500 ADC | | 4 |
| | | 0 - 1000 ADC | | 1 |
| | | 0 - 20 AAC | | 2 |
| 02 | ANALOG AMMETER | 0 - 1000 ADC | $\pm 0.5 \%$ OF FSD | 1 |
| | | 0 - 2250 ADC | | 1 |
| | | 0 - 50 AAC | | 2 |
| | | 0 - 60 A | | 3 |
| | | 0 - 100 AAC | | 4 |
| 03 | DIGITAL VOLTMETER | 0 - 99.9 VDC | $\pm 0.5 \%$ | 7 |
| | | 0 - 750 VDC | | 2 |
| 04 | ANALOG VOLTMETER | 0 - 30 VDC | $\pm 0.5 \%$ OF FSD | 1 |
| | | 0 - 15 VDC | | 1 |
| | | 0 - 500 VAC | | 2 |
| | | 0 - 300 VAC | | 1 |
| 05 | DIGITAL MICRO METER | 0 - 25 mm | ± 0.002 mm | 1 |
| 06 | MICRO METER | 0 - 25 mm | ± 0.02 mm | 3 |
| 07 | DIGITAL VERNIER CALIPER | 0 - 150 mm | ± 0.02 mm | 3 |
| 08 | DIAL CALIPER | 0 - 150 mm | ± 0.02 mm | 1 |
| 09 | VERNIER HEIGHT GAUGE | 0 - 250 mm | ± 0.02 mm | 1 |
| 10 | DIAL CALIPER | 0 - 10 mm | ± 0.05 mm | 1 |
| 11 | BEVEL PROTECTOR | 0 - 180° | ± 1 | 1 |
| 12 | DIGITAL TEMPERATURE CONTROLLER | 0 - 1000° | $\pm 1 \%$ OF FSD | 1 |
| | | 0 - 1200° | | 1 |
| | | 0 - 800° | | 1 |
| | | 0 - 400° | | 2 |
| 13 | GLASS TUBE THERMOMETER | - 10° TO + 110°C | $\pm 1 \%$ OF FSD | 1 |
| 14 | INFRARED THERMOMETER | - 20° TO + 500°C | $\pm 1 \%$ OF FSD | 1 |
| 15 | DIGITAL PH METER | 0 - 14 PH | $\pm 1 \%$ OF FSD | 1 |

A Whole New Dimension In Quality



ISO 9001: 2000 CERTIFIED COMPANY

ANNEXURE 'A'

EQUIPMENTS



| SR.NO. | INSTRUMENT DESCRIPTION | RANGE | ACCURACY REQ. | QTY. |
|--------|--|---|--|-------|
| 16 | CONDUCTIVITY METER | 10 - 102 % I.A.C.S. | $\pm 1\%$ I.A.C.S. | 1 |
| 17 | VERNIER CALIPER | 0 - 200 mm | ± 0.02 mm | 14 |
| | | 0 - 150 mm | | 5 |
| | | 0 - 300 mm | | 2 |
| 18 | CALIBRATION MASTER FOIL | 100 mm | $\pm 1\%$ | 1 |
| | | 245 mm | | 1 |
| | | 26 mm | | 1 |
| 19 | PLATING THICKNESS TESTER | 0.1 - 999.9 mm | $\pm 5\%$ | 2 |
| 20 | MEASURING TAPE | 0 - 5 mtrs. | ± 1 mm | 1 |
| | | 0 - 3 mtrs. | | 1 |
| 21 | MICRON TESTER | 0 - 3000 mm | $\pm (2\text{ mm} + 3\% \text{ of Threading})$ | 1 |
| | | 0 - 2000 mm | | 1 |
| 22 | HARDNESS BLOCK | 60.4 HRC | ± 1.26 HRC | 1 |
| | | 95.9 HRC | ± 1.277 HRC | 1 |
| | | 217 HBW | $\pm 3.517\%$ | 1 |
| 23 | AUTOMATIC ZERO SETTING GAUGE | 0 - 10 mm | $\pm 1\%$ | 1 |
| 24 | HARDNESS TESTER (Rockwell Cum Brinell) | 60, 100 & 150 Kgf (RHN) 187.5 & 250 Kgf (BHN) | $\pm 1.5\%$ (RHN) & $\pm 3\%$ (BHN) | 1 |
| 25 | DIGITAL LOAD INDICATOR | 0 - 500 Kg. | 100 Gm. | 1 |
| | | 0 - 15 Kg. | 10 Gm. | 1 |
| 26 | DIGITAL PROGRAMMING COUNTER | 0 - 999 Sec. | ± 1 Sec. | 1 |
| | | -999 To 9999 Count | ± 1 Count | 1 |
| | | 0 To 9999 Count | ± 1 Count | 1 |
| | | -999 To 999999 Count | ± 1 Count | 2 |
| 27 | ADHERENCE TESTER | 20 TN | N.A. | 1 |
| 28 | FLEXION TESTER | 18 - 2000 AWG | N.A. | 1 |
| 29 | PULLOUT TESTER | 0 - 500 Kg | N.A. | 1 |
| 30 | RESISTANCE TO COMPRESSION TESTER | 0 - 5.6 Kg | N.A. | 1 |
| 31 | ELECTRONIC WEIGHING SCALE | 0 - 3 Kg | 500 mg. / 300 mg. | 2 / 1 |
| | | 0-300 Kg/0-500 Kg | 50 gm. | 2 / 3 |
| | | 0-100 / 200 Kg | 000 VCV | 1 |

A Whole New Dimension In Quality



ISO 9001: 2000 CERTIFIED COMPANY

ANNEXURE 'A'

TESTING FACILITIES



| SR.NO. | EQUIPMENT | RANGE | MAKE |
|--------|----------------------------------|-----------------------------|---|
| 1. | ELECTROLYTIC ANALYSER | - | M/S. SWISS ENGINEERS (I) POONA |
| 2. | SPECTRO PHOTO METER | 360-960MM | M/S. PHOTO ELECTRIC INSTRUMENTS - JODHPUR (MODEL - SPECTROCHEM MK - II) |
| 3. | SINGLE PAN BALANCE | 0-250GSM | M/S. ROY & CO. - VARANASI |
| 4. | MUFFLE FURNANCE | 0-1200°C | M/S. TEMPO INSTRUMENTS & EQUIPMENTS - MUMBAI |
| 5. | HOT AIR OVEN | 0-300°C | M/S. TEMPO INSTRUMENTS & EQUIPMENTS - MUMBAI |
| 6. | HOT PLATE | 0-300°C | M/S. TEMPO INSTRUMENTS & EQUIPMENTS - MUMBAI |
| 7. | HARDNESS TESTER | 60 - 280KGF | M/S. SAROJ ENGINEERING UDYOG (P) LTD. - MAHARASHTRA (MODEL : RAB1) |
| 8. | VACCUM PUMP | 0-0.25 HP | M/S. SAWANT ENGINEERING (P) LTD. MUMBAI. (MODEL : V-5) |
| 9. | TENSILE STRENGTH TESTING MACHINE | 0-10,000KGF | M/S. FIE.(P) LTD. MAHARASHTRA (MODEL : UTN-10 & KMT) |
| 10. | HYDRAULIC TESTER | 0-4,000lb/INCH ² | M/S. SOLAR - MUMBAI |
| 11. | CONDUCTIVITY METER | 10-110% LACSH | M/S. TECHNOFOUR - PUNE (MODEL : TYPE-901) |
| 12. | VERNIER CALLIPERS | 0-150 MM | M/S. MITYUTOYO - JAPAN |
| 13. | MICROMETER | 0-10 MM | M/S. MITYUTOYO - JAPAN |
| 14. | GO-NO-GO GAUGES | 0-20.5MM | M/S. MITYUTOYO - JAPAN |

A Whole New Dimension In Quality



ISO 9001: 2000 CERTIFIED COMPANY

ANNEXURE 'B'

RAW MATERIAL SUPPLIER'S



1. COPPER TUBE / PIPES & RODS

M/S. MEHTA TUBES PVT. LTD.
Nana Pondha, Char Rasta, Tal. Dharampur,
Dist. Valsad, Gujarat - 369 126.

M/S. METAL GEMS
Plot No. 113 - 120, Panchal Udyog Nagar,
Bhimpore, Daman (U.T.) - 396 210.

2. COPPER SHEETS / STRIPS & PHOSPHOROUS BRONZE SHEET / STRIPS.

M/S. SHANGHAI METALS
Plot No. G-1911, Near Gujarat Gas Ltd.,
Almighty Gate, G.I.D.C., Lodhik, Gujarat.

M/S. SHREE RAM VIJAY ROLLING FACTORY
Chhotalal's Chawl, Outside Delhi Gate, Ahmedabad - 380 004.

3. ALUMINIUM TUBE / PIPE & RODS

M/S. BANCO ALUMINIUM LTD.
BIL, Near Bhaili Railway Station, Padra Road, Baroda - 391 410.

M/S. JINDAL ALUMINIUM LTD.
24-A, Nariman Bhavan, Nariman Point, Mumbai - 400 021.

M/S. GAL ALUMINIUM EXTRUSION PVT. LTD.
Gat No. 180/3/1, 10th Mile Stone, Near Kalyan Road,
Bhawani, Ahmednagar - 414 001.

4. PVC RODS FOR SLEEVES & BUSHES for M.R.

M/S. P. V. PLASTIC
15, Jaya Niwas, Daulat Nagar Road No. 3, Borivali (E),
Mumbai - 400 066.

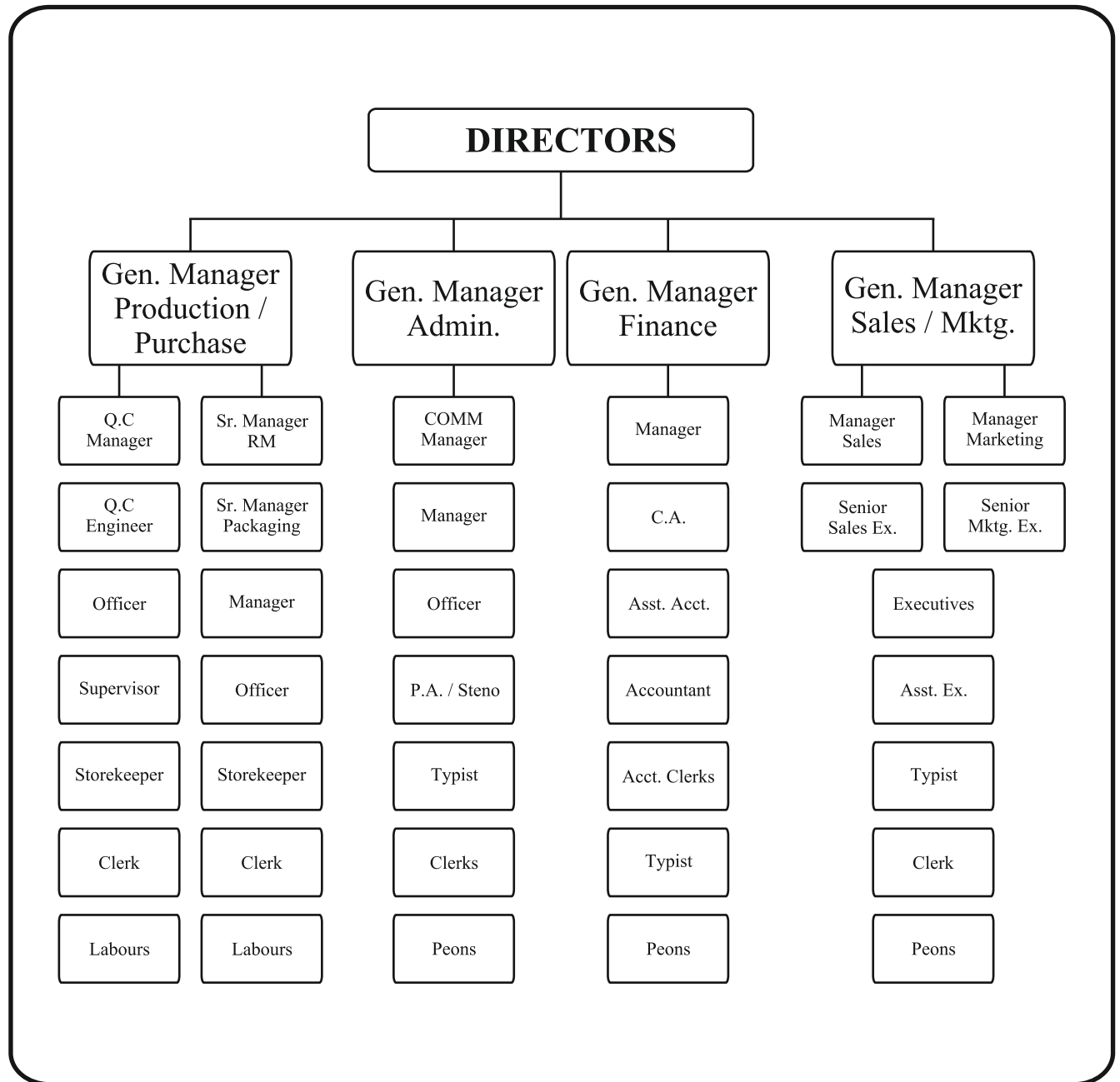
A Whole New Dimension In Quality



ISO 9001: 2000 CERTIFIED COMPANY

ANNEXURE - 'C'

ORGANISATIONAL CHART



ANNEXURE 'C'
ORGANISATIONAL CHART



EMPLOYEE STRENGTH - DIVISION WISE

| DEPARTMENT | EXPORT DIV. | LOCAL DIV. |
|---------------------|-------------|------------|
| ADMINISTRATION | 20 | 05 |
| MARKETING | 05 | 06 |
| PRODUCTION & STORES | 200 | 300 |
| TOOL ROOM | 12 | 08 |
| Q. A. | 05 | 05 |
| PACKING & DESPATCH | 15 | 10 |
| MAINTENANCE | 05 | 04 |
| TOTAL | 262 | 338 |
| GR. TOTAL | 600 | |

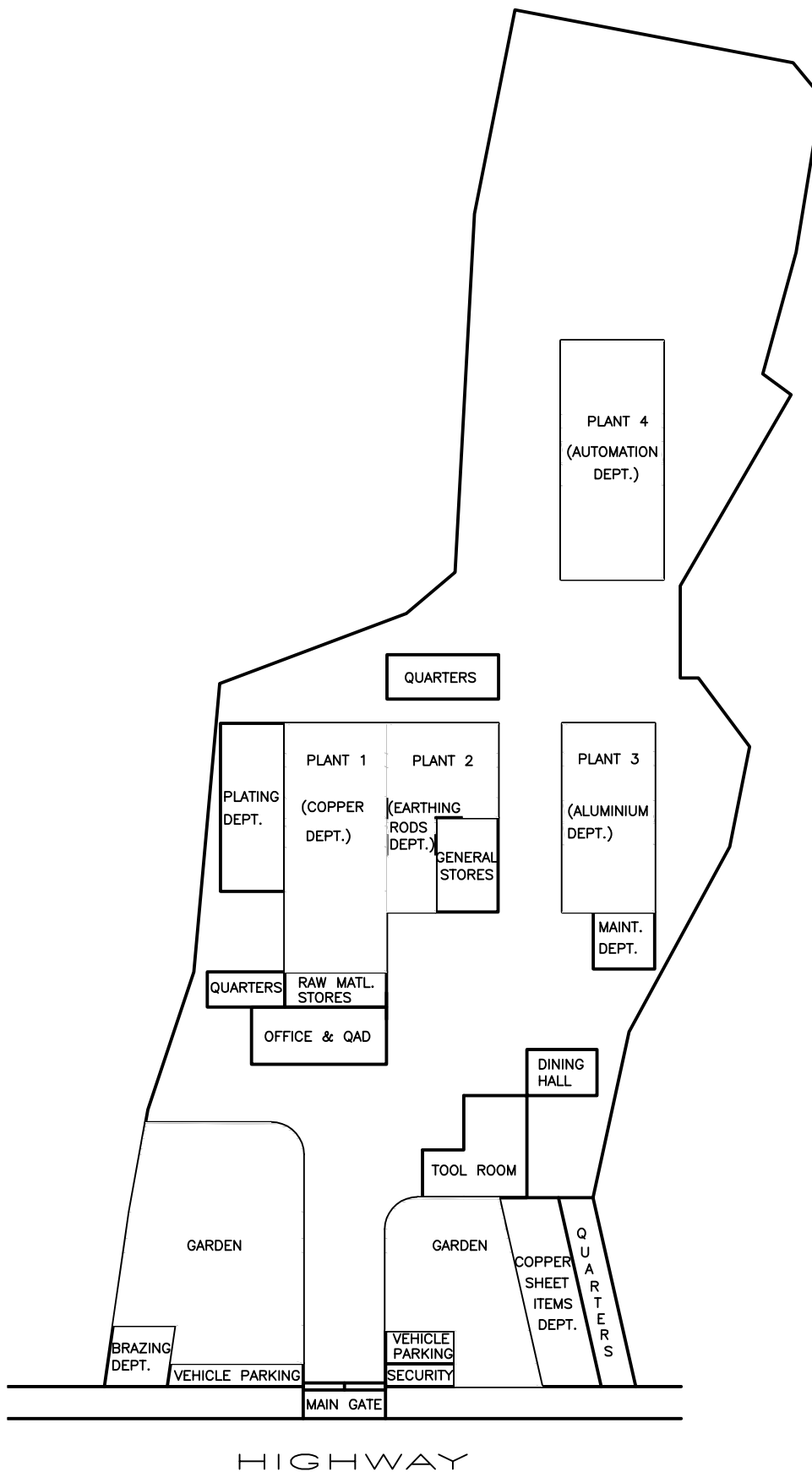
A Whole New Dimension In Quality



ISO 9001: 2000 CERTIFIED COMPANY

ANNEXURE 'D'

PLANT LAYOUT



A Whole New Dimension In Quality

ANNEXURE 'E'

MANUFACTURING PROCESS



MANUFACTURING PROCESS OF TUBULAR CABLE LUGS (STAGEWISE)

1. CUTTING OF RAW MATERIAL AS PER REQUIRED SIZE.
2. CHECKING OF THE SIZE (CUTTING).
3. ANNEALING.
4. FORGING.
5. ARC CUTTING, DRILLING, STAMPING.
6. MAKING SERRATIONS.
7. CHAMPHERING & DEBURRING.
8. INSPECTION.
9. TINNING.
10. FINAL INSPECTION.
11. PACKING.

MANUFACTURING PROCESS OF SHEET ITEMS - CABLE LUGS (STAGEWISE)

1. CUTTING OF RAW MATERIAL AS PER REQUIRED SIZE.
2. CHECKING OF THE SIZE (CUTTING).
3. BLANKING.
4. STAMPING.
5. U BENDING
6. ROUND BENDING.
7. SOLDERING.
8. CHAMPHERING.
9. INSPECTION.
10. TINNING.
11. FINAL INSPECTION.
12. PACKING.

ANNEXURE 'F'
S.S.I. REGISTRATION CERTIFICATE

NO.DIC/VLD/MSMED/ 3406
District Industries Centre,
Damanganga Bhavan, 1st Floor
B/H.M.S.Building.
Valsad. Dt. 12/02/2009.

DISTRICT INDUSTRIES CENTRE,
VALSAD

Form No.01355

EM PART-II

ACKNOWLEDGEMENT

M/S. BRASS COPPER & ALLOY (I) LTD, HAS FILED MEMORANDUM FOR A MANUFACTURING ENTERPRISE WHICH HAS BEEN SET UP AT THE ADDRESS AT BLOCK NO. 11, VADKHAMBHA 396 126 TALUKA KAPARADA DIST-VALSAD. STATED IN FORM NO. 01355 AND ALLOCATED ENTREPRENEURS MEMORANDUM NO.AS BELOW:

DATE OF ISSUE

1 2 0 2 2 0 0 9

CATEGORY OF THE UNIT

(MANUFACTURING-1,SERVICES-2)

1

(MICRO-1, SMALL-2, MEDIUM-3)

2

ENTREPRENEURS MEMORANDUM
NUMBER

2 4 0 2 5 1 2 0 1 3 5 5

(First two boxes are for State/Union Territory code, next three boxes are for District code and seventh boxes are for category of enterprise (sixth box for indicating manufacturing or set and seventh box for indicating micro or small or medium) and last five boxes are Entrepreneurs, Memorandum number)

Date: 12/02/2009

Place:Valsad:




General Manager
District Industries Centre
Valsad.

ANNEXURE 'G' CERTIFICATES



- ISO 9001-2000 QUALITY CERTIFICATE BY A.Q.A.
- EXPORT HOUSE RECOGNITION BY GOVT. OF INDIA.
- EXPORT EXCELLENCE AWARD.
- UNDERWRITERS LABORATORIES (UL) CERTIFICATE.

A Whole New Dimension In Quality



ISO 9001: 2000 CERTIFIED COMPANY



Certificate of Assessment

AQA International LLC, attests that:
BRASS COPPER & ALLOY (INDIA) LTD.

Plot No:11, Vadkhambha,
Taluka - Kaparada,
Dist.- Valsad, Gujarat-396126.

with a scope of:

**Manufacture & Supply of Cable Terminal Ends, In-line
Connectors, Earthing Rods, Earthing Plates, Sales and Support
of Crimping Tools for Electrical Industry**

has established a Quality Management System that is in conformance
with the International Quality System Standard ISO 9001:2008

"Further clarifications regarding the scope of this certificate and the applicability of
ISO 9001:2008 requirements may be obtained by consulting the organization."

1/18/2012
Initial Registration

IN015175
Certificate No.

1/18/2012 to 1/17/2015
Registration Period

CEO, AQA International



सत्यमेव जयते

भारत सरकार

GOVERNMENT OF INDIA

वाणिज्य एवं उद्योग मंत्रालय

MINISTRY OF COMMERCE & INDUSTRY

कार्यालय, मंडलीय संयुक्त महानिदेशक, विदेश व्यापार

OFFICE OF THE ZONAL JOINT DIRECTOR GENERAL OF FOREIGN TRADE

मान्यता प्रमाण पत्र

Certificate of Recognition

स्टार निर्यात सदन

STAR EXPORT HOUSE

मैसर्स STATUS HOLDER No.:03/15/1073/100127

(आई ई सी सं. और आयकर पैन सं.)
को विदेश व्यापार नीति, 2004-2009 के प्रावधानों के अनुसार स्टार निर्यात सदन
का स्तर प्रदान किया जाता है। यह प्रमाण पत्र 1 अप्रैल से 31 मार्च
तक वर्षों की अवधि के लिए वैध है।

M/s BRASS COPPER & ALLOY (INDIA) LIMITED 3RD FLOOR RAW
AL BLDG. NO. 2 418 LAMINGTON ROAD OPP. INDUSIND BANK MUMBAI
MAHARASHTRA 400004

(IEC No. 0392005361 and Income Tax PAN
No.) are hereby accorded the status of Star Export
House in accordance with the provisions of the Foreign
Trade Policy, 2004-2009. This Certificate is valid for a period of
..... years effective from 1st April to 31st March
.....
Five 2009
2014

सं.
No. B-1073
तारीख
Date 27.01.2010
स्थान
Place Mumbai



Shailish Singh
मंडलीय संयुक्त महानिदेशक, विदेश व्यापार
ZONAL JOINT DIRECTOR
GENERAL OF FOREIGN TRADE

(फाइल सं. / FILE NO. 03/82/105/00106/AM)/



EEPC INDIA

ALL INDIA AWARDS FOR EXPORT EXCELLENCE 2006-07

Beas Copper & Alloy (P) Ltd. Mumbai.....

have been awarded

*for Star Performer as Small Enterprise
in the product group of*

*"Other Fabricated Metal Products excl Machinery and Equipment"
for their outstanding contribution to Engineering Exports
in the year 2006-07*

9th August 2008
Kolkata

Rakesh Shah
Rakesh Shah
Chairman

ENGINEERING EXPORT PROMOTION COUNCIL

Certificate of Compliance

Certificate Number **20100105 - E328910**
Report Reference **E328910 , 29 December 2009**
Issue Date **2010 January 05**

Page 1 of 1



Issued to: **BRASS COPPER & ALLOY (I) LTD**

Rawal Bldg, 3rd Fl, #2
418 Lamington Rd
Opp Indusind Bank
Mumbai, 400 004 India

*This is to certify that
representative samples of*

GROUNDING AND BONDING EQUIPMENT

Grounding Clamps With Hubs : HGCH-621, HGCH-622 and HGCH-623 may be followed by A or B.

*Have been investigated by Underwriters Laboratories Inc.® in
accordance with the Standard(s) indicated on this Certificate.*

Standard(s) for Safety:

The basic standard used to investigate products in this category is ANSI/UL 467, "Grounding and Bonding Equipment."


The basic standard used to investigate products in this category is CSA-C22.2 No. 41, "Grounding and Bonding Equipment."

Additional Information:

See UL On-Line certification Directory at www.UL.com for additional information.

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers:

 the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product

Issued by: **Ranjini S**
Ranjini S, Customer Service Professional.

Reviewed by: **William R Carney**
William R Carney, Director of the North American
Certification Program.

UL India Pvt. Ltd

UL Inc. Division Office

Any information and documentation provided to you involving UL Mark services are provided on behalf of Underwriters Laboratories Inc..
For questions in India, you may call 91-80-4138 4400, UL India pvt. Ltd

Certificate of Compliance

Certificate Number 20080409- E307140
Report Reference E307140, 20080304
Issue Date 2008 April 9

UL India Private Limited a Subsidiary of

Page 1 of 4



**Underwriters
Laboratories Inc.**

Issued to:

BRASS COPPER & ALLOY (I) LTD

Rawal Bulding, 3rd Floor, #2.418, Lamington Road,
Opp. Indusind Bank, Mumbai-400 004 India.

*This is to certify that
representative samples of*

Wire Connectors and Soldering Lugs

For part numbers covered please refer addendum

*have been investigated by UL India Pvt. Ltd. a subsidiary of Underwriters
Laboratories Inc. ® according to the Standard(s) indicated on this Certificate.*

Standard(s) for Safety:


USL have been investigated using requirements contained in the Standard UL 486A-
486B, First Edition.

Additional Information:

N/A

Only those products bearing the UL Listing Mark should be considered as being covered by UL's Listing and Follow-Up Service.

The UL Listing Mark generally includes the following elements: the symbol UL in a circle:

 with the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product

Issued by: *Mallikarjuna Rao*
Mallikarjuna Rao, Project Handler
UL India Pvt. Ltd.

Reviewed by: *John Tsavalos*
John Tsavalos, IJ Reviewer
UL India Pvt. Ltd.

Any information and documentation provided to you meeting UL Mark services are provided on behalf of Underwriters Laboratories Inc. UL India Pvt. Ltd.

Certificate of Compliance

Certificate Number 20100112 - E328910
Report Reference E328910, 26 December 2009
Issue Date 2010 January 12

Page 1 of 1



Issued to: BRASS COPPER & ALLOY (I) LTD

Rawal Bldg, 3rd Fl, #2 418 Lamington Rd
Opp Indusind Bank Mumbai, 400 004 India

*This is to certify that
representative samples of*

GROUNDING AND BONDING EQUIPMENT

Bronze ground clamps, Types : HGC-412, HGC-413, HGC-625,
HGC-63ODB

*Have been investigated by Underwriters Laboratories Inc.® in
accordance with the Standard(s) indicated on this Certificate.*

Standard(s) for Safety:

The basic standard used to investigate products in this category is ANSI/UL 467,
"Grounding and Bonding Equipment."
The basic standard used to investigate products in this category is CSAC22.2 No.
41, "Grounding and Bonding Equipment."

Additional Information:

See UL On-Line certification Directory at www.UL.com for additional
Information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's
Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers; the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.



Look for the UL Listing Mark on the product

Issued by: Vidya Bhat
Vidya.Bhat, Customer Service Professional.

Reviewed by: William R Carney
William R Carney, Director of the North American
Certification Program

UL India Pvt. Ltd

UL Inc. Division Office

Any information and documentation provided to you involving UL Mark services are provided on behalf of Underwriters Laboratories Inc.
For questions in India, you may call 91 -80-4138 4400, UL India Pvt. Ltd

Certificate of Compliance

Certificate Number **20100120 - E328910**
Report Reference **E328910, 16 January 2010**
Issue Date **2010 January 20**

Page 1 of 1



Issued to: **BRASS COPPER & ALLOY (I) LTD**

Rawal Bldg, 3rd Fl, #2 418 Lamington Rd
Opp Indusind Bank Mumbai, 400 004 India

*This is to certify that
representative samples of*

GROUNDING AND BONDING EQUIPMENT

Copper bonded ground rods: Cat. Nos. HBR305, HBR-244A.
Solid copper grounding rod: Cat. No. HSC1021
Stainless steel ground rods: Cat. Nos. HSS1410, HSS1710, HSS2410,
HSS-148

*Have been investigated by Underwriters Laboratories Inc.® in
accordance with the Standard(s) indicated on this Certificate.*

Standard(s) for Safety:

The basic standard used to investigate products in this category is ANSI/UL 467,
"Grounding and Bonding Equipment."
The basic standard used to investigate products in this category is CSAC22.2 No.
41, "Grounding and Bonding Equipment."

Additional Information:

See UL On-Line certification Directory at www.UL.com for additional
Information

Look for the UL Listing Mark on the product

**Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's
Listing and FollowUp Service meeting the appropriate requirements for US and Canada.**

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers;
the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product
identifier) as indicated in the appropriate UL Directory.



Issued by: **Vidya Bhat**
Vidya.Bhat, Customer Service Professional.

Reviewed by: **William R Carney**
**William R Carney, Director of the North American
Certification Program**

UL India Pvt. Ltd

UL Inc. Division Office

Any information and documentation provided to you involving UL Mark services are provided on behalf of Underwriters Laboratories Inc.,
For questions in India, you may call 91 -80 -4138 4400, UL India Pvt. Ltd

ANNEXURE 'H'

APPROVAL CERTIFICATES



TEST REPORTS & CERTIFICATIONS

- KEMA B. V., NETHERLAND
- SABS, SOUTH AFRICA
- PSB CORPORATION, SINGAPORE
- C.P.R.I., BANGALORE, INDIA
- REGIONAL TESTING CENTRE, MUMBAI, INDIA.
- NATIONAL TEST HOUSE, MUMBAI, INDIA.

THIRD PARTY INSPECTION REPORTS

- THE KENYA POWER & LIGHTING CO. LTD., KENYA
- TUBOSCOPE VETCO INTERNATIONAL, GERMANY.
- BOURNEMOUTH & POOL ENGG., U.K.
- SGS, INDIA

A Whole New Dimension In Quality



ISO 9001: 2000 CERTIFIED COMPANY

TYPE TEST CERTIFICATE OF COMPLETE TYPE TEST

OBJECT single-core straight-throught cable joint

DESIGNATION CSJ 120 1C 24

Rated voltage U_0/U (U_m) 12/20 (24) kV Rated frequency 50 Hz

MANUFACTURER DSG-CANUSA
Bergstrand House, Parkwood Close, Broadley Industrial Park
Roborough, Plymouth PL6 7EZ, Great Britain

TESTED FOR DSG-CANUSA
Bergstrand House, Parkwood Close, Broadley Industrial Park
Roborough, Plymouth PL6 7EZ, Great Britain

DATE OF TESTS 28 July up to and including 7 November 2003

TESTED BY KEMA HIGH-VOLTAGE LABORATORY
Utrechtseweg 310 – 6812 AR Arnhem – the Netherlands

The object, constructed in accordance with the description, drawings and photographs incorporated in this Certificate, has been subjected to the series of proving test in accordance with

CENELEC HD 629.1 S1

This Type Test Certification 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 1.

The Certificate applies only to the object tested. The responsibility for conformity of any object having the same designation with that tested rest with the manufacturer.

This Certificate comprises 63 sheets in total.

Only integral reproduction of this Certificate, or reproduction of this page accompanied by any pages(s) on which are stated the endorsed ratings of the object tested are permitted without written permission from KEMA.

Electronic copies in e.g. PDF-format on scanned version of this Certificate may be available and have the status "for information only". The sealed and bound version of the Certificate is the only valid version.

KEMA Nederland B.V.



S.A.M. Verhoeven

Arnhem, 3 December 2004



RATINGS ASSIGNED BY THE MANUFACTURER AND PROVED BY TESTS

| | |
|--|---------------|
| Rated voltage U_0/U (U_m) | 12/20 (24) kV |
| Rated frequency | 50 Hz |
| Maximum rated conductor temperature for XLPE | 90 °C |
| Rated cross-section | 95-300 mm |

TEST PROGRAMME

The programme was specified by the client and was as described below.

According to table 5 of the CENELEC HD 629.1 S1 (1996) including HD 629.1 S1/A1 (2001) standard for cable joints for cables with extruded insulation.

1 Tests performed on test loop 1

- 1.1 D.c. voltage dry withstand test in accordance with CENELEC HD 628 S1 clause 5
- 1.2 A.c. voltage dry withstand test in accordance with CENELEC HD 628 S1 clause 4
- 1.3 Partial discharge test at ambient temperature in accordance with CENELEC HD 628 S1 clause 7
- 1.4 Impulse voltage test at elevated temperature in accordance with CENELEC HD 628 S1 clause 6
- 1.5 Electrical heating cycle test in air (3 cycles) in accordance with CENELEC HD 628 S1 clause 9
- 1.6 Partial discharge test at elevated and ambient temperature in accordance with CENELEC HD 628 S1 clause 7
- 1.7 Electrical heating cycle test in air (60 cycles) in accordance with CENELEC HD 628 S1 clause 9
- 1.8 Electrical heating cycle test in water (63 cycles) in accordance with CENELEC HD 628 S1 clause 9
- 1.9 Heating cycle test in water (10 cycles) in accordance with client specification and CENELEC HD 628 S1 clause 9
- 1.10 Partial discharge test at elevated and ambient temperature in accordance with CENELEC HD 628 S1 clause 7
- 1.11 Impulse voltage test at ambient temperature in accordance with CENELEC HD 628 S1 clause 6
- 1.12 A.c. voltage dry withstand test in accordance with CENELEC HD 628 S1 clause 4
- 1.13 Examination, for information only

2 Test performed on test loop 2

- 2.1 D.c. voltage dry withstand test in accordance with CENELEC HD 628 S1 clause 5
- 2.2 A.c. voltage dry withstand test in accordance with CENELEC HD 628 S1 clause 4
- 2.3 Thermal short-circuit test on screen in accordance with CENELEC HD 628 S1 clause 10
- 2.4 Thermal short-circuit test on conductor in accordance with CENELEC HD 628 S1 clause 11
- 2.5 Dynamic short-circuit test in accordance with CENELEC HD 628 S1 clause 12
- 2.6 Impulse voltage test at ambient temperature in accordance with CENELEC HD 628 S1 clause 6

- 2.7 A.c. voltage dry withstand test in accordance with CENELEC HD 628 S1 clause 4
2.8 Examination for information only

MATERIAL DATA

Cable joints

| | |
|--|----------------------------|
| Manufacturer | DSG-CANUSA |
| Type | CSJ 120 1C 24 |
| Conductor cross-section | 120 mm ² |
| Rated voltage U _i /U _m (U _m) | 12/20 (24) kV |
| Rated frequency | 50 Hz |
| Standard | CENELEC HD 629.1 S1 (1996) |

See also appendix A.

Crimp connectors in cable joints (for the cable conductors)

| | |
|--------------|-------------------------------------|
| Manufacturer | BICC |
| Type | BTHW120CS |
| Description | COPPER WATERBLOCKED CRIMP CONNECTOR |

Crime connectors in cable joints (for the cable screen)

| | |
|--------------|--|
| Manufacturer | HEX |
| Type | HAXL - 35 |
| Description | HEAVY DUTY IN LINE ALUMINIUM CRIMP CONNECTOR |

Cable lugs (for the cable conductors)

| | |
|--------------|-------------------------------|
| Manufacturer | BURNDY |
| Type | BTHW 120 C212 |
| Description | WATERBLOCKED COPPER CRIMP LUG |

Cable lugs (for the cable screen)

| | |
|--------------|--|
| Manufacturer | HEX |
| Type | HS 24 |
| Description | TINNED COPPER CABLE TERMINAL (PRE CRIMPED ONTO HEX BRAID) |

Cable

| | |
|--------------|--|
| Manufacturer | Batt/Fulgor Cables |
| Type | 1x120 mm ² CU/XLPE, 12.7/22 (24) kV |
| Designation | XLPE/CTS/PVC/AWA/PVC Red 12.7/22 kV ref 56304 |

Client : Three-D Agencies (Pty) Ltd, PO Box 18307, DALBRIDGE, 4014
Manufacturer : Three-D Agencies (Pty) Ltd, PO Box 18307, DALBRIDGE, 4014
Sample description : Six class B 150mm fugs fitted on plain stranded copper conductor. The test loop was prepared by Three-D Agencies (Pty) Ltd and witnessed by Mr G Mashinini of SABS. The PROD CODE HT-150-16 was tested and the lug Drawing and dimensions can be seen in Appendix B. The sample was allocated SABS sample No.ML/100056/SB

Tests have been carried out strictly in accordance with

Sub clause 6.3 *Heat cycle test* of SABS IEC 1238: 1993 *Compression and mechanical connectors for power cables with copper or aluminium connectors. Part 1 Test methods and requirements.*


Date of tests: 12 March 2003 to 10 October 2003

The sample complied with the relevant requirement of Sub clause 6.3 Heat cycle test of SABS IEC 1238: 1993 *Compression and mechanical connectors for power cables with copper or aluminium connectors. Part 1: Test methods and requirements.*

This report consists of:

Report forms 4
Appendix A, B and C


GB Mashinini
Senior technician
Materials Laboratory NETFA


JL Monyai
Head:Materials Laboratory: NETFA
Ollfantsfontein, 12 January 2004



Apollo Road Olifantsfontein 1665, PO Box 144 Olifantsfontein 1665, Tel: +27 (011) 316-2005, Fax: +27 (011) 316-4979.

This test was performed by Testing and Conformity Services (Pty) Ltd. on affiliate with SABS
This report relates only to the specific sample(s) tested as identified herein & does not imply SABS approval of the quality and the performance of the item(s) in question and the test results do not apply to any similar item that has not been tested.



TEST REPORT



Your Ref:

Date: 12-03-2009

Our Ref: 58503042513SYGJYCI

Page: 1 of 5

DID: 86851379

Fax: 67745708

NOTE: This Report is issued subject to the 'Terms & Conditions Governing Technical Services' set as in the 'Request for Technical Services' form. The terms & conditions governing the issues of this report are said on overleaf.

Subject

EVALUTION TEST OF BI-METALLIC CONNECTOR

Client

Chee Chiang Marketing Pvt Ltd
No. 10
Woodlands Loop
Singapore 738385

Attn: Mr Andy Tay

Sample Submission Date

28-02-2003



Your product quality and safety mark

Our Ref: 589030425/SYG/YCI

Description of Samples

BI-Metallic Connector
Model : NESCO UK
Type : Copper and Aluminium Type
Quantity : Six (6) units
Manufacturer : Hex
Country of Origin : India

Types of Test

The following tests were extracted from the HDB's testing criterias for electrical materials:-

- a) Microscopic examination of friction weld surface;
- b) Electrical interface resistance and
- c) Tensile strength of joint

Results

| Item No. | Title | Results |
|----------|--|-----------------------|
| 1 | Electrical Interface resistance Measurement between (See Appendix I): Position A Position B | 0.006m 0.007m |
| 2 | Tensile strength of joint Maximum force (kN) | 15.41 See Remark 1 |
| 3 | Microscopic examination of friction weld surface | See Remark 2 |



हिन्दी में काम देश का सम्मान
केन्द्रीय विद्युत अनुसंधान संस्थान

(भारत सरकार की शोभाशिवपुरी, विद्युत मंत्रालय)

प्रो. सर. सी. वी. रामन रोड, सदाशिवनगर डाक घर, पो.सा.सं. 8066, बंगलूर - 560 080 भारत.

CENTRAL POWER RESEARCH INSTITUTE

(A Govt of India Society, Min. of Power)

Prof. Sir C. V. Raman Road, Sadashivanagar P.O., P.B. No. 8066, BANGALORE - 560 080, INDIA.

तीव्र डाक द्वारा
BY SPEED POST

फोन: का.:
Phone: off :
2360 4554/ 2360 2526
फैक्स: Extn. 2473
Fax :

MECHANICAL ENGINEERING DIVISION

VIBRATION LABORATORY

No. VB/19/2007-08

Date: 05.10.2007

M/s. Brass Copper & Alloy (I) LTD
418, Lamington Road, 3rd Floor,
Rawal Building No - 2
Mumbai - 400 004

Fax No: 22 6636 07 08 & Telephone No: 22 6636 48 00.

Kind Attn: Mr. Hemang R. Vashi

Dear Sir,

Sub: Testing of Copper / Aluminium Lugs as per IEC 61238
Ref: Your Letter No. BCA/HM/PB/08 Dated: 31.08.2007

Please find enclosed herewith the Test report on Testing of Copper / Aluminium Lugs vide Test Report No. VB.717.T46.0708 respectively. Bill will be sent to you in due course.

Kindly acknowledge the receipt of the same.

Thanking you and assuring our professional best services at all times.

Yours faithfully

M.D. Anantha Babu
Engineering Officer (MED).



VIBRATION LABORATORY
MECHANICAL ENGINEERING DIVISION
CENTRAL POWER RESEARCH INSTITUTE
Prof. Sir C.V. RAMAN ROAD, POST BOX No. 8066
BANGALORE 560 080, INDIA

Phone: 23602525,23602526,23601662,23601905 Extn:2475 Fax : +91-80-3601213

TR No.VB.717.T46.0708

Sheet 02 of 03

TEST REPORT

MECHANICAL TEST

1. Test Sample : a) Tinned Copper lug 150 mm²
b) Tinned Copper lug 35 mm²
c) Aluminium lug 120 mm²
d) Aluminium lug 50 mm²
2. Type of test(s) : Mechanical Test
3. Identification Number : ---
4. End user : ---
5. Test Results

| Sl. No. | Type and Size | Sample Code No. | Remarks |
|---------|---------------------------------------|-----------------|---|
| 1. | Tinned Copper lug 150 mm ² | VB0708S0062 | No slipping was occurred during the last minute of the test. On increasing the load further, the Lug was slipped over at ehe crimping at a load of 97000 N. |
| 2. | Tinned Copper lug 35 mm ² | VB0708S0063 | No slipping was occurred during the last minute of the test. On increasing the load further, the Lug was slipped over at ehe crimping at a load of 25000 N. |
| 3. | Aluminium Lug 120 mm ² | VB0708S0064 | No slipping was occurred during the last minute of the test. On increasing the load further, the Lug was slipped over at ehe crimping at a load of 44000 N. |
| 4. | Aluminium Lug 50 mm ² | VB0708S0065 | No slipping was occurred during the last minute of the test. On increasing the load further, the Lug was slipped over at ehe crimping at a load of 30000 N. |


TEST ENGINEER

REGIONAL TESTING CENTRE (W.R.)**क्षेत्रीय परीक्षण केन्द्र (प.क्षे.)**

Government of India Ministry of SSI

लघु उद्योग मंत्रालय भारत सरकार,

Kurla Andheri Road, Saki Naka,

कुर्ला अंधेरी मार्ग, साकी नाका,

Mumbai - 400 072.

मुंबई - 400 072.



Tel. : (022) - 28570588/28576998/28571775

दूरभाषा : 28570588/28576998/28571775

Grams : "REGTEST" MUMBAI - 72.

तार : रजिस्टेस्ट, मुंबई - 72.

Fax (022)-857 2238

**परीक्षण / कैलिब्रेशन रिपोर्ट
TEST / CALIBRATION REPORT****कार्य संख्या**

Job Order No.

RTC/WR/ELECT/535/03-04 / 1264

तिथि

Date :

15.12.2003

रिपोर्ट संख्या

Report No. :

535

को जारी किया

Issued to :

M/s.BRASS COPPER & ALLOY (INDIA) LTD.,
3rd Floor, Rawai Building No.2, 418, Lamington Road,
MUMBAI - 400 004**जारी करने की तिथि**

Date of Issue :

17.12.2003

सैंपल पर पहचान चिन्ह

Identification Mark

of Sample :

आवेदन संख्या

Request No. :

Nil

तिथि

Date :

15.03.2002

वांछित परीक्षण

Test Required :

सामान का ब्यौरा

Material Details

TESTS CONDUCTED AS PER : AS 1939 : 1990
(Australian Standard for Degree of protection provided
by enclosures for electrical equipment)
- IP 68 Test2 Samples of Brass Cable Gland
of sizes 20MM

| क्रम संख्या Sr. No. | परीक्षण का नाम Name of the Test | मानक विशिष्ट Standard Specification | वास्तविक परिणाम Actual Sample Results | टिप्पणी Remarks |
|------------------------|--|---|--|--------------------|
| 1 | DEGREE OF PROTECTION AGAINST SOLID FOREIGN OBJECT (DUST TEST) (IP 6X) Test conducted as per Cl.13.4 considering category 1 for each sample individually | There should be no ingress of dust | No ingress of dust observed in the samples | Satisfactory |
| 2 | DEGREE OF PROTECTION AGAINST INGRESS OF WATER (CONTINUOUS IMMERSION) (IP X8) Test conducted by immersing the enclosure fitted with gland in water for 2 hours with height of water 1.2 meter above the samples under test as per Cl.14.2.8 | Ingress of water if any should not cause harmful effects. | Met with the requirement | Satisfactory |

टिप्पणी : यह रिपोर्ट परीक्षण के लिए जमा करवाए गए विशेष सैंपल के लिए है। बिना विहित अनुमति के इसे पुनरावृत्ति नहीं किया जा सकता है। परीक्षण किये गये सैंपल पर रिपोर्ट जारी करने के तुरंत बाद के भीतर वापस किये जा सकते हैं। यदि आवश्यक हो तो परीक्षण किये जाने की तारीख से 30 दिनों के भीतर लिखित रूप से वापस ले जाया जा सकता है। इस सम्बन्ध में किसी भी प्रकार के दावे या प्रस्ताव पर विचार नहीं किया जाएगा तथा ऐसे सैंपल / सैंपलों का नष्टावृत्ति प्रक्रिया के अनुसार निपटारा किया जाएगा।

N.B. 1) This report Pertain to the particular sample submitted for test.

2) This report may not be reproduced without prior written permission of RTC Mumbai

3) This tested samples(s) should be collected positively within 30 days from issue of this report failing which no claim whatsoever and no correspondence in matter shall be entertained and such sample(s) will be disposal off per Government Procedure

द्वारा अनुमोदित
Approved By:

17/12/03

Page No.

/ of /

Job Order No.

R.T.C. / WR /

/ 02-03

सहायक निदेशक
By Director
Asst. Director (Elect)

REGIONAL TESTING CENTRE (W.R.)**क्षेत्रीय परीक्षण केन्द्र (प.क्षे.)**

Government of India Ministry of SSI

लघु उद्योग मंत्रालय भारत सरकार,

Kuria Andheri Road, Saki Naka,

कुर्ला अंधेरी मार्ग, साकी नाका,

Mumbai - 400 072.

मुंबई - 400 072.



Tel. : (022) - 28570588/28576998/28571775

दूरभाष : 28570588/28576998/28571775

Grams : "REGTEST" MUMBAI - 72.

तार : रीगटेस्ट, मुंबई - 72.

Fax (022)-857 2238

**परीक्षण / कैलिब्रेशन रिपोर्ट
TEST / CALIBRATION REPORT****कार्य संख्या**
Job Order No. **RTC/WR/ELECT/ 265-1 / 03-04****तिथि**
Date : **25.04.03****रिपोर्ट संख्या**
Report No. : **265-1****को जारी किया**

Issued to :

**M/s.BRASS COPPER & ALLOY (INDIA) LTD.,
3rd Floor, Rawal Building No.2, 418, Lamington Road,
MUMBAI - 400 004****जारी करने की तिथि**

Date of Issue :

08.09.2004**सैंपल पर पहचान चिन्ह**

Identification Mark

of Sample : **Sizes : HBW-40L****आवेदन संख्या**Request No. : **NIL****तिथि**Date : **10.08.2004****वांछित परीक्षण**Test Requirements CONDUCTED AS PER BS: 6121 : Part 1:1989
(British Standard for Mechanical cable glands, Part-1
specification for metallic glands) - TYPE TESTS**सामान का ब्यौरा**

Material Details

**3 Samples of "HEX" brand Brass
Cable Gland
As per Drawing enclosed**

| क्रम संख्या Sr. No. | परीक्षण का नाम Name of the Test | मानक विशिष्ट Standard Specification | वास्तविक परिणाम Actual Sample Results | टिप्पणी Remarks |
|---------------------------|--|---|--|--------------------|
| 1 | PROOF TORQUE TEST (Cl.8.2): Gland is tested by tightening the gland with a manually operated torque spanner to the appropriate proof torque of 30N and thereafter examined | There should be no damage on dismantling the gland after the test | No sign of damage observed on dismantling the gland of any size | PASSED |
| 2 | ARMOUR CLAMP TENSILE TEST (Cl.8.4) Test conducted on pair of glands fitted to opposite ends of a cable of 300 mm long as per appendix D and the load of 6.62 KN is maintained for 2 minutes. | The armour wire should not slip under the armour clamps | All samples withstood the test without slipping of armour wire from the armour clamp | PASSED |

टिप्पणी : यह रिपोर्ट परीक्षण के लिए जमा कराया गया विशेष सैंपल के लिए है। कृपया विनिर्दिष्ट अनुमति के बिना पुनरावृत्ति न कराया जाए। परीक्षण किये गये सैंपल पर विनिर्दिष्ट रिपोर्ट जारी करने के तुरंत दिन के भीतर वापस लिये जा सकते हैं। यदि द्वारा परीक्षण (परिष्करण किया गया) सैंपल रिपोर्ट जारी किये जाने की तारीख से 30 दिनों के भीतर निर्दिष्ट रूप से वापस न जाया जाए जल्दया, इस सैंपल में किसी भी प्रकार के होने या पचाया पर विचार नहीं किया जाएगा तथा ऐसे सैंपल / सैंपलों का वास्तविक प्रक्रिया के अनुसार निपटारा किया जाएगा।

N.B. 1) This report Pertain to the particular sample submitted for test.

2) This report may not be reproduced without prior written permission of RTC Mumbai.

3) This tested samples(s) should be collected positively within 30 days from issue of this report failing which no claim whatsoever and no correspondence in matter shall be entertained and such sample(s) will be disposal off per Government Procedure.

द्वारा अनुमोदित
Approved Byउप निदेशक
Dy. Director

| क्रम संख्या Sr. No. | परीक्षण का नाम Name of the Test | मानक विशिष्ट Standard Specification | वास्तविक परिणाम Actual Sample Results | टिप्पणी Remarks |
|------------------------|---|--|---|--------------------------|
| 3 | ELECTRICAL CONTINUITY TEST (Cl.8.5): Test conducted on pair of glands of each size fitted to opposite ends of a cable of 300 mm long as per appendix E. Electrical resistance between the test blocks is measured. The assembly is heated uniformly in an oven to 130 +/- 5oC. Removed the assembly and allowed to cool naturally to ambient temperature. This heating and cooling cycle is repeated three times. Thereafter the electrical resistance between the same points as before is measured. a) Before heating the resistance between the test blocks should not exceed twice the armour of the cable (300mm) used in the test b) The electrical resistance measured after the three heating cycles should not exceed the initial value by more than 10% or 25 micro ohm whichever is the greater. | | Electrical resistance is within the limit for all glands Electrical resistance measured after heating cycle is within the limit for all glands | PASSED PASSED |
| 4 | DIMENSIONS (As desired by the Manufacturer) Dimensions of the glands are checked for values given in drawing (Attested copy attached) | Should be as per drawing | Dimensions are as per drawing enclosed | PASSED |

टिप्पणी : यह रिपोर्ट परीक्षण के लिए जमा कराया गए विशेष नमूने के लिए है। बिना निश्चित अनुमति के इसे दुबारा न बनाया जाए। परीक्षण विधियों पर वेबसाइट पर विवरण उपलब्ध है। वास्तविक परिणाम रिपोर्ट जारी करने के लोस दिनांक के आधार पर जारी किए जा सकते हैं। वास्तविक परिणाम (परिष्कार किया गया) नमूने रिपोर्ट जारी किए जाने की तारीख से 30 दिनों के भीतर निश्चित रूप से वापस ले जाया जाए। अन्यथा, दुसरे नमूने में विरती की प्रकृति के दालों का परामर्श पर विचार नहीं किया जाएगा तथा ऐसे नमूने / नमूने की वास्तविक प्रकृति के अनुसार निष्कर्ष दिया जाएगा।

- N B 1) This report Pertain to the particular sample submitted for test.
 2) This report may not be reproduced without prior written permission of RTC Mumbai.
 3) This tested samples(s) should be collected positively within 30 days from issue of this report failing which no claim whatsoever and no correspondence in matter shall be entertained and such sample(s) will nbe disposal off per Government Procedure

द्वारा अनुमोदित
Approved By

[Signature]
08/07/09
उप निदेशक
Dy. Director

REGIONAL TESTING CENTRE (W.R.)**क्षेत्रीय परीक्षण केन्द्र (प.क्षे.)**

Government of India Ministry of SSI

लघु उद्योग मंत्रालय भारत सरकार,

Kurla Andheri Road, Saki Naka,

कुर्ला अंधेरी मार्ग, साकी नाका,

Mumbai - 400 072.

मुंबई - 400 072



Tel. : (022) - 28570588/28576998/28571775

दूरभाषा : 28570588/28576998/28571775

Grams : "REGTEST" MUMBAI - 72.

तार : रजिटेस्ट, मुंबई - 72.

Fax (022)-857 2238

**परीक्षण / कैलिब्रेशन रिपोर्ट
TEST / CALIBRATION REPORT**

| | | | | |
|---|---|-----------------------|---|---|
| कार्य संख्या Job Order No. | RTC/WR/ELECT/ 266 / 04-05 | तिथि Date : | रिपोर्ट संख्या Report No. : | 266 |
| को जारी किया Issued to : | M/s. BRASS COPPER & ALLOY (INDIA) LTD., 3 rd Floor , Rawal Building No.2 418 , Lamington Road , Opposites Indusland Bank, MUMBAI - 400 004. | | जारी करने की तिथि Date of Issue : | 20.08.2004 |
| सैंपल पर पहचान चिन्ह Identification Mark of Sample : | HEX make HCW 20 L | | आवेदन संख्या Request No. : | |
| | | | तिथि Nil | 10.08.2004 |
| बांछित परीक्षण Test Required : | TESTS CONDUCTED AS PER BS: 6121 : Part 1:1989 (British Standard for Mechanical cable glands, Part-1 specification for metallic glands) | | सामान का ब्यौरा Material Details | 3 Samples of Mechanical Cable Gland. |

| क्रम संख्या Sr No | परीक्षण का नाम Name of the Test | मानक विशिष्ट Standard Specification | वास्तविक परिणाम Actual Sample Results | टिप्पणी Remarks |
|----------------------|---|---|--|--------------------|
| 1 | PROOF TORQUE TEST (CI.8.2): Gland is tested by tightening the gland with a manually operated torque spanner to the proof torque of 65 NM thereafter examined | There should be no damage on dismantling the gland after the test | No sign of damage observed on dismantling the gland. | PASSED |
| 2 | ARMOUR CLAMP TENSILE TEST (CI.8.4) Test conducted on pair of glands of each size fitted to opposite ends of a cable of 300 mm long as per appendix D and the load of 2.7KN is maintained for 2 minutes. | The armour wire shouldnot slip under the armour clamps | Samples withstood the test without slipping of armour wire from the armour clamp | PASSED |

टिप्पणी : यह रिपोर्ट परीक्षण के लिए जमा कराया गया विशिष्ट सैंपल के लिए है। जिम्मा लिखित अनुमति के बिना पुनरावृत्ति नहीं किया जा सकता है। परीक्षण विषये अन्य सैंपल परीक्षण रिपोर्ट जारी करने के लिए रिपोर्ट के भीतर वापस लिखें या सैंपल हैं। परीक्षण द्वारा परीक्षण (परीक्षण विषय) सैंपल रिपोर्ट जारी करने की तारीख से 30 दिनों के भीतर लिखित रूप में जमा करने जाया अनुमति, इस सैंपल में किसी भी प्रकार के दोषों या कमी के बिना जारी किया जाएगा। ऐसे सैंपल / सैंपल के संचालन प्रक्रिया के अनुसार निपटारा किया जाएगा।

N.B. 1) This report Pertain to the particular sample submitted for test.

2) This report may not be reproduced without prior written permission of RTC Mumbai

3) This tested sample(s) should be collected positively within 30 days from issue of this report failing which no claim whatsoever and no correspondence in matter shall be entertained and such sample(s) will be disposal off per Government Procedure.

द्वारा अनुमोदित
Approved By

Page No. 1 of 2 Job Order No. R.T.C. / WR / 266 / 04-05

 By Director

| क्रम संख्या Sr. No. | परीक्षण का नाम Name of the Test | मानक विशिष्ट Standard Specification | वास्तविक परिणाम Actual Sample Results | टिप्पणी Remarks |
|------------------------|---|---|---|----------------------|
| 3 | ELECTRICAL CONTINUITY TEST (CI.8.5): Test conducted on pair of glands of each size fitted to opposite ends of a cable of 300 mm long as per appendix E Electrical resistance between the test blocks is measured. The assembly is heated uniformly in an oven to 130 +/- 5°C. Removed the assembly and allowed to cool naturally to ambient temperature. This heating and cooling cycle is repeated three times. Thereafter the electrical resistance between the same points as before is measured. a) Before heating the resistance between the test blocks should not exceed twice the armour of the cable (300mm) used in the test b) The electrical resistance measured after the three heating cycles should not exceed the initial value by more than 10% or 25 micro ohm whichever is the greater. | | Electrical resistance is within the limit Electrical resistance measured after heating cycle is within the limit | PASSED PASSED |
| 4 | SEAL TEST (CI.8.6.1) One gland of each size is fitted to suitable enclosure as per appendix F and tested for IP 66 degree of protection | There should be no ingress of dust or water in the sample enclosure | No ingress of dust or water observed in the enclosure | PASSED |
| 5 | DIMENSIONS (As desired by the Manufacturer) Dimensions of the glands are checked for values given in drawing (Attested copy attached) | Should be as per drawing ***** | Dimensions are as per drawing enclosed | PASSED |

टिप्पणी : यह रिपोर्ट परीक्षण के लिए जमा कराया गया विशिष्ट नमूने के लिए है। किन्तु लिखित अनुमति के बिना दुबारा न कराया जाए। परीक्षण किये गये नमूने पर परीक्षण रिपोर्ट जारी करने के तीन दिन के भीतर आपत्त रिपोर्ट जमा सकते हैं। यदि छुटा परीक्षण (परिष्कार किया गया) रिपोर्ट जारी किये जाने की तारीख से 30 दिनों के भीतर लिखित रूप से वापस ले लिया जाए। अन्यथा, दूर तकल्प में किसी भी प्रकार के दावे या फलस्वरूप पर विचार नहीं किया जाएगा तथा ऐसे नमूने / नमूनों का वस्तुवारी प्रक्रिया के अनुसार निपटारा किया जाएगा।

N B 1) This report Pertain to the particular sample submitted for test.

2) This report may not be reproduced without prior written permission of RTC Mumbai

3) This tested samples(s) should be collected positively within 30 days from issue of this report failing which no claim whatsoever and no correspondence in matter shall be entertained and such sample(s) will be disposal off per Government Procedure.

द्वारा अनुमोदित
Approved By



उप निदेशक
Dy. Director



0671

भारत सरकार
GOVERNMENT OF INDIA

राष्ट्रीय परीक्षण शाला

NATIONAL TEST HOUSE

F-10, MIDC, Andheri (East), Bombay-400 093.

09136

जांच प्रमाणपत्र
TEST CERTIFICATE

संख्या BTH/E/94/34 जारी
No. dated the 16-3-1995
Issued to : M/S. Brass Copper & Alloy (India) Pvt. Ltd., 'A' Wing, Mhatre Pen Building, 2nd floor, Senapati Bapat Marg, Dadar (W), Bombay-28.

पत्र संख्या :
With reference to letter No. BCA/11/94

रजिस्टर संख्या :
Register No. E/34

जारी
dated the 11.11.94

जारी
dated the 12.1.95

नमूना मिलने की तारीख

Sample received on the 12.1.95

Three nos. of sample consisting of one no. copper tube of length 119 cm and two nos. of cable terminals marked as HS 22.

As desired, the samples were subjected to the following tests with the results noted below:-

1. Tests:-

A. Chemical composition:-

Conducted on raw material observed from copper tube.

Only the estimation of copper, silver, lead and bismuth were carried out.

- | | |
|--|-------------------|
| i) Copper content (as Cu) percent by mass. | : 97.27 |
| ii) Bismuth content (as Bi) percent by mass. | : Practically nil |
| iii) Lead content (as Pb) percent by mass. | : Practically Nil |
| iv) Silver content (as Ag) percent by mass. | : Nil |

B. Mechanical test:-

- | | |
|--|----------------|
| i) Bend test (As per I.S. 191-1977) | : Satisfactory |
| ii) Ultimate tensile strength (kg/mm^2) | : 31.3 |
| iii) 0.2% proof stress (kg/mm^2) | : 26 |

Contd.....2/-

ध्यान दें :- इस प्रमाणपत्र या रिपोर्ट को बणिज्जिक प्रयोजनों के लिए केवल पूर्णरूप से ही प्रकाशित करना चाहिए लेकिन निदेशक, राष्ट्रीय परीक्षण शाला, बम्बई की अनुमति से अनुमोदित पत्राचार प्रकाशित किया जा सकता है।

N.B. - This certificate or report may not be published for commercial purposes except in full unless permission for the publication of an approved abstract has been obtained from the Director, National Test House, Bombay.

(२) यह प्रमाणपत्र केवल उन्हीं नमूनों के लिए है, जिनकी जांच की गई है तथा पैसा की भारत सरकार द्वारा जारी किये गये प्रेस नोट, "राष्ट्रीय परीक्षण शाला में लागू होने वाली परीक्षण मूल्य सूची तथा अन्य संबंधित जानकारी" के पृष्ठ संख्या 5 में दी गयी है।

(2) This Test Certificate applies only to samples tested as mentioned in the "PRESS NOTE" shown at page (v) in the Govt. of India Publication "Schedule of Testing Charges Levied by National Test House and related information."

N. T. H. 5.



0671

09136

Page No. 2

No. BTH/E/94/34

Date: 16-3-1995

- iv) Elongation percentage on gauge length 50 mm (as per I.S. 2654-1977) : 21.8
- v) Flattening test (As per I.S. 191-77) : Satisfactory.
- vi) Vicker hardness test
(Average of four readings) : HV 168
- C. Electrical resistivity test
(As per I.S. 3035-60)
Resistivity at 27° C : 2.23×10^{-6} ohm-cm.

For 11/17/95

Uma Bhakta
(Mrs. Uma Bhakta)
Scientist SD (Elec.)
For Scientist SC-incharge.

M. Y. N. 8/14.3.95.



भारत सरकार
GOVERNMENT OF INDIA
राष्ट्रीय परीक्षण भवन

00131

NATIONAL TEST HOUSE
F-10, MIDC, Andheri (East), Bombay-400 093.

0672

जांच प्रमाणपत्र TEST CERTIFICATE

संख्या No. BTH/E/94/34 A जारीत 16-3-1995 1995
Issued to M/s. Brass Copper and Alloy (India) Pvt. Ltd., A Wing, Shatro Koli Building, 2nd floor, Senapati Bapat Marg, Dadar (W), Bombay-28.
दृष्ट संख्या BCA/11/94 जारीत 11.11.94 1994
With reference to letter No. , dated the 12.1.95
रजिस्टर संख्या E/34 , जारीत 12.1.95
Register No. , dated the

नमूना मिलने की तारीख
Sample received on the 12.1.95

Three nos. of samples consisting of one NO. ALUMINIUM tube, of length 126 cm and two nos. of cable terminal marked as HAS 229.

As desired, the samples were subjected to the following tests with the results noted below:-

1. Tests:-

A. Chemical composition:-

Conducted on raw material obtained from aluminium tube.

| | |
|------------------------------|-------------------|
| i) Aluminium content (as Al) | : 99.65 |
| Percent by mass. | |
| ii) Silicon content (as Si) | : 0.03 |
| percent by mass. | |
| iii) Iron content (as Fe) | : 0.15 |
| Percent by mass. | |
| iv) Copper content (as Cu) | : 0.01 |
| Percent by mass. | |
| v) Titanium content (as Ti) | : Practically Nil |
| percent by mass. | |

B. Mechanical test:-

| | |
|-------------------------------------|----------------|
| i) Bond test | : Satisfactory |
| (As per I.S. 8308-76) | |
| ii) Ultimate tensile strength | : 42 MPa |
| iii) 0.2% proof stress | : 31 MPa |
| iv) Elongation, percentage on gauge | : 50.4 |
| length 50 mm (As per I.S. 8308-76) | |

Contd.2/-

ध्यान दें :- इस प्रमाणपत्र या रिपोर्ट को वित्तीयक प्रयोजनों के लिए केवल गुणवत्ता के ही प्रक. शित करना चाहिए लेकिन निदेशक, राष्ट्रीय परीक्षण भवन, बम्बई की अनुमति के अनुरोधित सारांश प्रकाशित किया जा सकता है।

N.B. - This certificate or report may not be published for commercial purposes except in full unless permission for the publication of an approved abstract has been obtained from the Director, National Test House, Bombay.
(2) यह प्रमाणपत्र केवल उन्हीं नमूनों के लिए है, जिनकी जांच की गई है तथा येना की भारत सरकार द्वारा जारी किये गये हैं-
नोट. "राष्ट्रीय परीक्षण भवन से लागू होने वाली परीक्षण शुल्क सूची तथा अन्य संबंधित जानकारी" के पृष्ठ संख्या 5 में दी गयी है।

(2) This Test Certificate applies only to samples tested as mentioned in the "PRESS NOTE" shown at page (v) in the Govt. of India Publication "Schedule of Testing Charges Levied by National Test House and related information."

N. T. H. 5.



CC72

09131

Page No.2

No. BTH/E/94/34 A

Date: 16-3-1995

v) Flattening test
(As per I.S.8308-76)

: Satisfactory

vi) Vicker hardness test
(Average of four readings)

: HV 20

C. Electrical resistivity test
(As per I.S.3635-1960)

Resistivity at 27°C

: 3.1×10^{-6} ohm-cm.

Uma Bhakta
(Mrs. Uma Bhakta)
Scientist SS (Elec.)
For Scientist SC-Incharge.

ring 14.3.95.



The Kenya Power & Lighting Co. Ltd.

The Kenya Power & Lighting Co. Ltd.
General Office - P.O. Box 20000 Nairobi, Kenya
Telephone: 254(0)2037000000/2037000001
Fax: 254(0) 20000 20000
Email: info@kplc.co.ke

FAX MESSAGE

TO FAX: +254 41 228818

COUNTRY: KENYA

COMPANY: M/s B. CHANDULAL S. VORA

F.A.O: B. VORA

YOUR Ref: SAT

DATE: 28.10.2010

OUR REF: INC-KPLC/AC/PS/183/2010

DATE: 28.10.2010

URGENT ELECTRICAL INSPECTION FOR THE KAPENYIN HEALTH FACILITY UNDER THE NEMA/ACCIDENTAL DISASTERS UNIT/INVESTIGATION

Please refer to the Treasury Memorandum Transmitted out by our Department of your letter of 24th
October 2010 to Ministry of Health.

The results for Visual, Thermal and Infrared A.T.I. are indicated in annex to our Headlines and are
hereby appended.

Please proceed with alignment.

Respectfully

A. N. GATUKU
PROJECT MANAGEMENT MANAGER

This document transmittal is intended only for the use of the addressee and may contain confidential
or legally privileged information. If you are not the intended recipient you are hereby notified that any
use or dissemination of this communication is strictly prohibited. If you receive this transmittal in
error, please notify us that we will arrange for the return of the documents at no cost.



TUBOSCOPE VETCO (DEUTSCHLAND) GMBH
Postfach 31 11, 29221 Cella
Meeschweg 5, 29227 Cella
Telefon: (0)5141-9020
Telefax: (0)5141-902 188
Email: QSSD@TVDCelle.de

R.N.No. 990412/01

INSPECTION CERTIFICATE & RELEASE NOTE For Shipment

Customer P.O.: MEW / 2528F

Project NoQSSD/050/98-5

Date: 19/04/99

Customer MINISTRY OF ELECTRICITY AND WATER

Address P.O. BOX 12 13001, SAFAT, KUMAIT

Vendor/Subvendor NAFISI ELECTRICAL Ctrg Co Ltd **Location** SAFAT KUWAIT

Manufacturer M/S BRASS COPPER & ALLOY (INDIA) Ltd **Location** MUMBAI 400 028 INDIA

| Item No. | Description | Qty passed | Date of Inspection | Item Status |
|--|--|------------|--------------------|-------------|
| Item 10 1000 sets of Copper Earthrod Assembly | | | | |
| 1 | 16mm x 1.22 M x 0.25 mm Copper Eartrh Rod | 4200 | 12/04/99 | Compl |
| 2 | 16 mm x 70 mm High strength corrosion resisting copper alloy couplings | 4200 | 12/04/99 | Compl |
| 3 | 16 mm High tensile head steel driving stud | 1050 | 12/04/99 | Compl |
| 4 | Copper Alloy U Clamp with cable lugs suitable for 100 sq. Mm stranded copper conductor along with nut, bolts and washers | 1050 | 12/04/99 | Compl |
| 5 | Driving Tips of high Tensile hard steel | 4200 | 12/04/99 | Compl |

I, the undersigned Mr R D Twade
advise you that above mentioned materials are:

_____not yet ready _____held in abeyance _____rejected X accepted

This is the _____whole X part _____balance of
the Order

Remarks/ Reasons for Rejection

WE, TUBOSCOPE VETCO (DEUTSCHLAND) GMBH HEREBY CERTIFY THAT THE MATERIALS HAVE
BEEN INSPECTED BY US PRIOR TO SHIPMENT AND FOUND AS PER MEW ORDER NO 2528f TENDER
NO MEW/22/4/94-96/97 (GROUP "B")-ITEM 10 THE GOODS CAN THEREFORE BE RELEASED FOR
SHIPMENT

Under the power given to the undersigned by TVD/Celle this release note is Issued to release the above mentioned material
For shipment but does not certify that is it approved. Final release is covered only the Inspection certificate of TVD, upon
Receipt of satisfactory Inspection document liste works certificates etc The Release Note Is Issued at the request of the
Supplier and TVD accepts no responsibility.

**THE ISSUING OF THIS RELEASE NOTE IN NO WAY RELIEVES THE VENDOR OF HIS
RESPONSIBILITY TO SATISFY THE ORDER REQUIREMENTS.**

Tuboscope Vetco
(Deutschland) GmbH
Quality Support
Service Division
TVI Inspection
Meeschweg 5
D-29227 Cella/Germany

BOURNEMOUTH & POOLE ENGINEERING

Suite # 585
2 old Brompton Road
Kensington, London SW7 3DQ

Fax: (020) 7581 4445

RELEASE NOTE

Inspection # 2
1st Shipment/ Lot/ Batch (Item 7)

Ref.: 0403038845

Customer Order No.: 1058F

Sub: Inspection of various materials associated with 11KV overhead lines

Manufacturer: Brass Copper & Alloy (I) Ltd.
3rd Floor Rawal Building No. 2
418 Lamington Road
Mumbai 400 004
India

Supply Intended for: Ministry of Electricity & Water, Kuwait
Thru
Rezayat Trading Company Ltd., Kuwait

Inspection Ordered by: Ministry of Electricity & Water , Kuwait
Thru
A1 Malaifi General Trading & Cont. Co. W.L.L., Kuwait

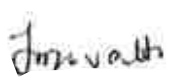
The following materials have been released for shipment:

Tinned Brass Line Taps Suitanle for: (item # 7 of MEW order)
12000 Nos. 32 mm² HDFC Conductor
12000 Nos. 70mm² HDFC Conductor
8000 Nos. 100mm² HDFC Conductor

** Order Status incomplete

The materials are being packed as per packing list.

Date: 06 March 2003

Signature: 

For + on behalf of B & P Engg.

Stamp:



Copy to: 1. Ministry of electricity & Water , Kuwait
2. Al Malaifi General Trading & Contracting Co. W.L.L., Kuwait.



SGS

CERTIFICATE NO.: F530101/MUM/C003859.

REF: IN/MUM/IND/20040045/1

DATE: 30.01.2004

PAGE: 3 of 3

IDENTIFICATION

After inspection **SGS** yellow stickers were sampled earthing rod and Single in each pallets and double on on coupling sampled boxes and & single on rest.



STUFFING

The packages were stuffed into Container No. TRIU141599-8.

CONCLUSION

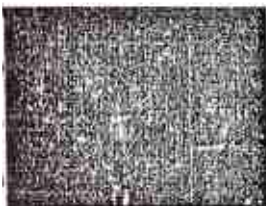
On the basis of our inspection and the buyer's acceptance above material was found satisfactory.

For **SGS INDIA PRIVATE LIMITED**



The information stated in this report (or Certificate) is derived from the results of inspection or testing procedures carried out in accordance with the instructions of our clients , and /or our assessment of such results on the basis of any technical standards , trade custom or practice , or other circumstances which should in our professional opinion be taken into account "

This certificate contains 3(three) pages.



| | | |
|---|---|--|
|  | GIS Global Quality Management System Document title PHYSICAL INSPECTION RESULT | Reference D3-GIS-02-IC-32-IN |
| | | Version 13 |
| | Date 15.12.2008 | |

(To be issued to exporters or supplier / place of inspection as a form or by E-mail / fax)

To: **BRASS-COPPER AND ALLOY (INDIA) LTD.**

Service Request number: **20906076071/01**

Internal number: **2899616911**

Intervention Number: **① 120MM² - 11AS-257 = 15143 NOS**

Description and quantity of goods inspected: **② 95MM² - 11AS-227 = 3681 NOS**

③ 185MM² - 11AS-311 = 21162 NOS

TOTAL 39986 NOS

No of packages: **8 CTNS**

Stamped/Stencilled (for re-identification purpose): **SGS - GIS - MUM - 11**

Reference documents on which the inspection is based

☒ Proforma Invoice No. **BCN/4366/009/INP**

☒ Packing List No. **282/09-10**

☒ Test / Analysis certificate **INVOICE**

☒ Others (specify): **INVOICE**

Place & Date of Inspection: **01-07/10/09 - Gohumal Sampada, NOVIMUMBLE**

☒ Satisfactory

INSPECTION RESULTS

☐ Conditional, subject to :

☐ Unsatisfactory for the following reasons :

Suggested action to be taken (where applicable) FCL ☐ / LCL ☐ _____ % OF FCL VOLUME FOR ALL ACL

Note: In order for SGS to proceed, this discrepancy should either be:

- (a) Rectified and the good presented for re-inspection by SGS prior to shipment on chargeable basis OR
- (b) Accepted by the importer or where applicable by the concerned authorities in the import country.

Inspection validity :

☒ This physical inspection result remains valid only until: **06/12/2009** i.e. 60 days from the inspection date

It is the exporter's decision whether or not to proceed with shipment but good not shipped within the above inspection validity period will automatically require re-inspection by SGS prior to shipment.

Important note :

• This is not a Clen Report of Findings (CRF) and does not relive the seller of their contractual obligation. Exporters are advised to contract SGS prior to shipment if :

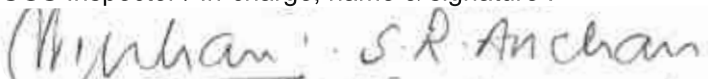
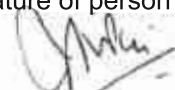
- (a) There is any doubt concerning the issuance of a CRF / Labelling of Invoice.
- (b) Requiring any other information or wishing to present their views in writing concerning this inspection result.
- (c) Requiring re-inspection of the goods, where applicable advising the date on which goods will be available.

SGS Sealing of FCLs :

- Compulsory of **Angola, Burundi and Haiti**
- To be done during inspection for **Indonesia (ID89) and Mexico**
- If specified in IO or made available during PSI for **Cameroon**

☒ Final documents to SGS : Please submit **Final invoice** and **B/L** or **AWB** for issuance of CRF / Label for

- **Angola, Burundi, Cameroon, Haiti and Mauritania**

| | |
|--|---|
| SGS Inspector / In-charge, name & signature :  | Signature of person presenting goods :  |
| SGS Branch & date VIKAROLA. 07/10/09 | Name, designation & company ABHIJIT PATHI AGM - EN/09 |

UNCONTROLLED COPY

The latest revision of this document and the official distribution list are those approved in the QMS software

ANNEXURE 'I' APPROVALS



1. ASEA BROWN BOVERI LTD., MUMBAI & NEW DELHI, INDIA (ABB).
2. AREVA T & D, HOSUR, TAMILNADU, INDIA.
3. BHARAT HEAVY ELECTRICAL LTD., BHOPAL - M.P. & BANGALORE, INDIA.
4. BSES LTD., NEW DELHI, INDIA.
5. DALAL CONSULTANTS & ENGINEERS LTD., MUMBAI, INDIA.
6. DMRTS, NEW DELHI, INDIA.
7. ECIL, HYDERABAD, INDIA.
8. HINDALCO BIRLA COPPER, BHARUCH, INDIA.
9. INDIAN OIL CORPORATION LTD., PANIPAT, INDIA.
10. INTEGRAL COACH FACTORY, CHENNAI, INDIA.
11. ITI LTD., RAE BARAEILLY, INDIA.
12. LARSEN & TOUBRO LTD, MUMBAI & MYSORE, INDIA.
13. NTPC LTD., BTPS, NEW DELHI, INDIA.
14. ORDNANCE FACTORY, AMBERNATH, INDIA.
15. POWER GRID CORPORATION OF INDIA LTD., GURGAON, HARYANA.
16. ROLLS ROYCE, MUMBAI, INDIA.
17. SIEMENS LTD., NAVI MUMBAI, INDIA.
18. TOYO ENGINEERING INDIA LTD., MUMBAI, INDIA.
19. VOLTAS LTD., MUMBAI, INDIA.

A Whole New Dimension In Quality



ISO 9001: 2000 CERTIFIED COMPANY



Date: 2001 12 12

To,

M/s BRASS COPPER & ALLOY (INDIA) LTD,

A wing, 2 nd floor, Mhatre pen bldg.,
Senapati bapat marg, Dadar (West),
Mumbai- 400028,

ATTN: Mr.Mahesh Mehta / Mr.Manish Desai

CC to: Mr. Rahul Vora/ Rahul Brothers

Dealt by: **G.Anil Kumar**

Dear Sirs,

Ref.: Vendor approval.

With reference to your introduction letter and the subsequent visit of our Quality and manufacturing department managers on 2001 09 04 to your Plant at Vadakhamba, Valsad dist, we are pleased to inform you that your unit is provisionally approved by us for the supply of the following components.

1) Cable terminal ends & connectors (1.5/2.5 Sq.mm)

Final approval will be accorded to you after studying your performance for a period of six months.

Yours faithfully,

For Asea Brown Boveri Limited,

CG Jagadeesh
Quality Assurance Manager,
Protection & Substation Automation,
Business Area – Utilities

Asea Brown Boveri Limited

Factory :
Plot No. 5 & 6, II Phase
Peenya Industrial Area
P.B. No. 5806, Peenya
Bangalore - 560 058

Telephone :
080-8395181
080-8394734
080-8392742

Fax :
080-8396552 APC, AIC, API
AICS, ICO
080-8396121 AUT
080-8392384 TPS
080-8396537 AMM

Cable :
ABBFILIAL
Bangalore - 58

Corporate Office :
15-16, Qutab Industrial Area
Guru Nanak Foundation Building
New Delhi - 110 067

Regd. Office :
Plot No. 22-A,
Shah Industrial Estate,
Off Veera Desai Road,
Andheri (West)
Mumbai - 400 053.



Ref: ATD/ P1 / Q1- 2011

Dated: 5th April 2011

512735

BRASS COPPER & ALLOY (I) LTD
PLOT NO 11, AT. VADKHAMBHA, TA.
KAPRADA, DIST.VALSAD,
KAPRADA
396126

Dear Sir / Madam

Sub: Quality performance Indicator for 1stQtr. 2011

We here by inform you the Quality Performance Indicator for the supplies to us for the last Quarter, Please note the Quality performance is an indication to initiate actions to improve the Quality performance and ensure on 100% Quality Product

Performance Jan-Mar'11 is 100 %

Please note that it is very essential to supply the Quality material. Your performance will be measured based on these Quality indicators and all future developments will be based on these Quality ratings only.

Please send us your action plan to improve the Quality performance within a week time after receipt of this letter if you are rated less than 100%.

Thanking you,

Yours faithfully,
For AREVA T&D India Ltd.,

A handwritten signature in blue ink, appearing to read 'S. Jagadeesan', is written over the typed name.

S. Jagadeesan
Manager – Supply Chain Management

AREVA T & D

AREVA T&D India Limited, No. 46, SIPCOT Industrial Complex, Zuzuvadi Village, Hosur - 635 126, Tamilnadu
Fax :-91 04344 408251 www.aveva.com

Registered Office : E- 46/7 Okhla Industrial Area, Phase II, New Delhi - 110020 Tel +91 11 47629100 Fax + 91 11 47629129 / 30



भारत हेवी इलेक्ट्रिकल्स लिमिटेड भोपाल
Bharat Heavy Electicals Limited Bhopal



YOUR REF. :

OUR REF. :

DATE : 29.03.97

TO WHOMSOEVER IT MAY CONCERN

Hex make tinned copper cable lugs are regularly used in our Switchgear division for all application satisfactorily. We Have not faced any quality problem and also delivery is also Very prompt.

Thanking you,

Your faithfully,
For BHARAT HEAVY ELECTRICALS LTD

S.C.PRASAD
(Sr.Mgr P-SCR)

भोपाल : 462022 दूरभाष : 586100 टेलिक्स : 0705 264/265/364/365, फैक्स : 0755-540425, 587591 तार : भारतेलेक
Bhopal : 462022 Phone : 586100 Telex : 0705-264/265/364/365 Fax : 0755-540425, 587591 Gram : BHARATELEC

Regd. Office : BHEL House, Siri Fort, New Delhi - 110049



भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited

(A Government of India undertaking)

ELECTRONICS DIVISION

P.B. No. 2606, Mysore Road, Bangalore - 560 026

Gram : BHARATELEC
Telex : 0845-2436 BHCE IN
0845-8151 BHCE IN
Fax : 080-5510137,6610534
RABMN : 404100000014
PHONE : 6998.....
(EPABX. NO.)

Ref : MMI:MMR:VPA:PD

DATE : 31/03/97

To
X403828
M/s. BRASS COPPER & ALLOY (I) PVT. LTD.,
'A' WING, II FLOOR, MHATRE PEN BL
DG, SENAPATI BAPAT MARG, DADAR W
BOMBAY 400028
MAHARASHTRA

Dear sir,

Sub : Performance appraisal for part supplies

We have evaluated your performance against various
supplier made (part quality) by you between july 96 and
December 96. Your performance as of now for the supplier
Made against our order upto 31st Dec is indicated below.

For a total performance rating of 100, 50% is allocated for
quality performance, 30% for delivery, 10% for quantity pro-
mised and 10% For services. If total rating is above 75% and
Quality rating above 37.5 and Delivery rating above 20 then
the supplier will be treated as "A" category Supplier. If
the rating is between 50-75% the supplier will be classified
as "B" and less than 50% will be classified as 'C'.

| P. O. no | Item | Material code & Description | Performance / Remarks |
|----------|------|--|-----------------------|
| 6155408 | 001 | CN9757401625 TERMINAL SOCKET 1.5 SQ. MM | GOOD (A) |

If classified as A category, you are requested to maintain / improve
Your performance further. If you are classified as 'B' or 'C' category
your performance has to be improved by appropriate corrective action
Please acknowledge the receipt of this letter.

Thanking You.

Your sincerely,
For Bharat Heavy Electricals Ltd.,


MANAGER (PURCHASE)



BSES Yamuna Power Limited

Regd. Office : Shakti Kiran Building,
Karkardooma, Delhi-110 092



BSES Rajdhani Power Limited

Regd. Office : BSES Bhawan,
Nehru Place, New Delhi-110 019

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

Corporate Office : BSES Bhawan, Nehru Place, New Delhi - 110019 Tel. : 39999999 Fax : 39999811

M/s Brass Copper & Alloy (I) Ltd
3rd Floor, Rawal Building No.2,
418, Lamington Road,
Mumbai – 400 004

27/04/04

Sub: Your application for Vendor Registration

Dear Sir,

This bears reference to your application for registration as a supplier of Lugs and Cable Accessories.

We are pleased to inform you that you have been approved as a Vendor for the following Items:

1. Cable Terminal Ends
2. Earthing Accessories
3. Crimping Tools
4. Glands.

Thanking You,
Yours Faithfully,

Pravir Sharma
Manager Materials



Dalal Consultants And Engineers Limited

Consultants - Architects & Engineers - Constructors

44, DR. R. G. THADANI MARG, WORLI, MUMBAI - 400 018

TEL.: 493 4821, 460 3959 FAX : (91-22) 495 0539

E-Mail: dalalcom@bom2.vsnl.net.in Website : dalalconsultants.com

Our Ref. : DCEL / PUR / SCA / 1140

Dt. : 10/04/2001

M/s. BRASS COPPER & ALLOY (INDIA)LTD
A-WING II ND FLOOR MHATRE PEN BUILDING
SENAPATI BAPAT MARG
DADAR (W) MUMBAI – 400 028

Sub :Enlistment as an approval vendor with DCEL

Dear Sirs,

We refer to your letter ref. No. BCA 2110 2000/2000 dt 21/10/2000 on the subject matter. We have examined your document and are pleased to inform you that you have been enlisted with DCEL as approved vendor for the items described below :

| Item Description : HEX | Materials | Range |
|-----------------------------|--------------------------|-----------------|
| CABLE TERMINAL & CONNECTORS | COPPER ALUMINIUM | 2.5 TO 1.000MM2 |
| | PHOSPHOROUS BRONZE | |
| CRIMPING TOOLS | AL-UPTO 8 CU.M UPTO 300M | 2.5 TO 400 MM2 |
| EARTING MATERIALS | M.S.WITH COPPER PLATING | |
| | | |

Your registration vendor Code No. is

DWE -097

Please note that this enlistment is subject to satisfactory execution of order maintaining the schedule and quality of the above mentioned items when ordered for our ongoing /future project

Further it may be note that any change in the product range location of works/ office management / organization structure etc. shall be intimated to the undersigned immediately along with relevant documentation for our necessary action

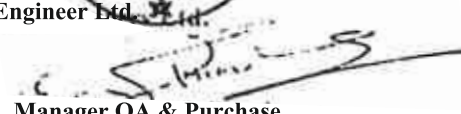
The validity of the enlistment is upto two years from date of issue of this letter.

Please note this registration does not conform any particular right on you & DCEL is not obliged to contact you For any or all items for which you have been registered for sending the enquiry / placement of order.

Kindly acknowledge receipt

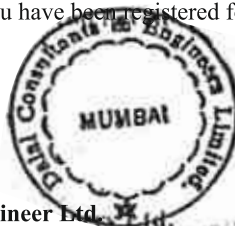
Thanking you

Yours faithfully

For Dalal Consultants and Engineer Ltd. 

Dir(O)

Manager QA & Purchase



PCI – PBI – JARTS – TONICHI – RITES

GENERAL CONSULTANTS FOR DELHI MRTS

25 Ashoka Road, New Delhi 110 001 Tel: 23345864, 23345865, 23345894

RECEIVED

Ref: GC/MC/MC1B/887/ 8012

Date: October 18, 2004

IMCC (International Metro Civil Contractors)
8, Jantar Mantar
New Delhi 110 066
[Fax: 011 23360346]



Ref No. 20954

Attn: Mr. K. L. Muenz / Project Leader

Sub : Metro Corridor Contract MC1B

Vendor & technical proposal for Cable Glands and Lugs

Ref : (i) IMCC letter no IMCC/E/DC/CB/17172 dated 01.07.04

(ii) IMCC letter no. IMCC/E/DC/TT/17937 dated 04.09.04

Dear Sir,

| INTERNATIONAL METRO CIVIL CONTRACTORS (IMCC) | | | |
|---|-------|-------|------|
| | Asstt | Comm. | Inv. |
| PL | | | |
| Construction | | | |
| Technical | | | |
| Commercial | | | |
| Contract | | | |
| QA/QC | | | |
| Safety | | | |
| Design | | | |
| Procurement | | | |
| Cost Contr. | | | |
| BRS | ✓ | | |

The vendor & technical proposal submitted by IMCC for cable Glands and Lugs in favour of M/s Brass Copper and Alloy (India) Ltd. Mumbai (HEX Brand) has been examined. There is no objection to the proposal subject to following

1. The lugs and glands shall be supplied conforming to relevant BS standards and BS 1977 and BS 6121. The firm shall submit test result of the sample pieces of the first lot for testing done as per BS standards. The class of copper used shall be suitable for the use as per BS standards.
2. The tin plating shall conform to relevant BS standard and material shall conform to the best class.
3. The LSZH shroud with Non PVC based LSZH fire retardant material shall be manufactured and test result shall be submitted as per the following details:-

| | | |
|---------------------|---|------------------|
| Oxygen Index | - | ASTM D2863 |
| Temp. Index | - | ASTM D2863 |
| Acid gas generation | - | BS6425/IEC754 |
| Smoke emission | - | BS7622/ASTMD2843 |
| Flammability | - | BS4066/IEC80332 |
4. Crimping shall meet the requirement of BS 4579
5. The life of the products shall match with the life of cables.

Yours faithfully,

Y. Zaitso

Project Manager / MC

cc CPM / DMRC, 18 Ashoka Road
CEE / LII / DMRC, PD/GC,
DM / MC, CRE / E&M



19F-12-127R2

इलेक्ट्रॉनिक्स कारपोरेशन आफ इंडिया लिमिटेड
Electronics Corporation of India Limited
भारत सरकार का उद्यम
A Govt. of India Enterprise
नियंत्रण एवं स्वचालन वर्ग (ग्रुप)
CONTROL & AUTOMATION GROUP - PURCHASE

ई. सी. आई.एल-डाक घर,
हैदराबाद - 500 062.
ECIL Post Office,
Hyderabad-500 062 (India)

Tele Fax : 0091-40-27121013
Fax : 0091-40-27123762
Email : cadmm@ecil.co.in
दूरभाष : 27120131 Ext. 2395, 3619,2242

हमारा संदर्भ
Our Reference :

दिनांक :
Date :

TO WHOM SOEVER IT MAY CONCERN

This is to certify that we are regularly using "HEX" make Terminal Copper Lugs which are found to be satisfactory quality material as well as good delivery.

जी.एस.आर. प्रसाद
G.S.R. PRASAD
सहायक प्रबंधक/Technical Manager
आर. व. व. (P) Purchase-CAG
ए. व. व. व. (P) Purchase-CAG
ECIL, HYDERABAD - 500 062



Ref: HIL/BC/VE/BG4/Q2/007

Date: 12.10.2009

Vendor Code: 5071

To,
M/s. BRASS COPPER & ALLOY (I) LTD.,
3RD FLOOR, RAWAL BLDG. NO. 2,
418, LAMINGTON ROAD,
MUMBAI - 400 005
Ph: 022-66364800
E-mail: mahesh@hexworldwide.com, mitesh@hexworldwide.com, kcb@hexworldwide.com,

Kind Attn: Mr. Kalpesh Bhansali (Cell No. 09930331110)

Dear Sirs,

As you are aware, we are doing vendor rating on quarterly basis, the vendor rating is based upon following:

| Sr No. | Aspects | Weightage |
|--------|----------|-----------|
| 1 | Quality | 65% |
| 2 | Delivery | 35% |

Quarterly rating of 3 Preceding consecutive quarters are considered at the time of ordering, for example, Order, Order I Placed between October-December shall be on rating between January- Septembers. Vendor rating is having direct bearing on the share of business, other things remaining same. The vendors have been rated based on the performance which is as under:

| Sr No. | Grade | Rating | Category |
|--------|-------|--------|--------------|
| 1 | A | 85-100 | Excellent |
| 2 | B | 65-84 | Very Good |
| 3 | C | 40-64 | Satisfactory |
| 4 | D | <40 | Poor |

The actual rating is as under:

| Rating Period | Quality | Delivery | Avg | Category |
|-----------------|---------|----------|-------|-----------|
| Apr'09-Jun'09 | 65.00 | 20.13 | 85.13 | Excellent |
| July'09-Sept'09 | 65.00 | 22.81 | 87.81 | Excellent |

You have achieved the 'EXCELLENT' Grade; we find that there is improvement in vendor rating. We are confident that you will strive & get 'EXCELLENT' rating in all time to come.

Please note that our focus is **to improve upon the delivery time**, we would request you to make the deliveries of the material as per committed delivery schedule so as to achieve 100% rating in the same.

We look forward your commitment in this regards.

Thanking you,

Yours Faithfully
For, Hindalco Industries Ltd.


Krishna Solanki

Materials Department
Krishnakumar.solanki@adityabirla.com



HINDALCO INDUSTRIES LTD.
(UNIT: BIRLA COPPER)

PO: Dahej, Dist: Bhavnagar, Gujarat-392130, Tel: 02641-251031, Fax: 02641-251003

इंडियन ऑयल कॉर्पोरेशन लिमिटेड

पानीपत रिफाइनरी

आकषर : पानीपत रिफाइनरी

जिला पानीपत - 132140 (हरियाणा)

Indian Oil Corporation Limited

PANIPAT REFINERY

POST OFFICE : PANIPAT REFINERY

DIST. PANIPAT - 132140 (HARYANA)

PHONES : 78825/26 Extn.

FAX : 01742

GRAMS : OILREFIN



पानीपत रिफाइनरी (रिफाइनरी प्रभाग)

Panipat Refinery (Refineries Division)

Date: 21.05.04

TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s Brass Copper & Alloy (India) Ltd .has been approved as our vendor for the supply of Cable Terminal Ends/Earthing accessories/Crimping Tools and Glands. They have been allotted Vendor Code – 10242085 for our all purchase enquiries. This Vendor Code is applicable for all Refineries of IOCL

Yours faithfully,

For and on behalf of

Indian Oil Corporation Ltd

(Authorised Signatory)

Telex : M.S.7390 618091 & 615941

I.C.F. 135

Telephone Nos. MS-24090



INTEGRAL COACH FACTORY, MADRAS-600 038

Office of CMM/Fur
Dt. 25.7.97

TO WHOMSOEVER IT MAY CONCERN

This is to certify that 'HEX Brand'
Solderless crimping sockets of various types and
Size to ICF drg. Are being regularly supplied to
ICF by M/S. FOMRA & FOMRA, No.2 Raghunathan Street,
First Floor, Chennai 600003 for the past two years
And the performance of the solderless crimping
Sockets supplied by this firm is found to be satis-
factorily acceptable to ICF.

K.N.NARAYANAN
Dist. Controller of stores/P
Furnishing Division

दुर्गा आईटीआई लिमिटेड

दूरभाष नगर, रायबरेली २२६०१०, भारत
तार : "दूरवाणी"
फैक्स : ०५३५-२०२४५४, २०२५८९, २०२१०६
ई मेल : <iti_rbi@itiltd.co.in>
इंटरनेट : www.itiltd_india.com

ITI LIMITED

Doorbhash Nagar, Raebareilly-226010 India
Gram : : "Doorvani"
Fax : : 0535-202454, 202589, 202106
E.MAIL : <iti_rbi@itiltd.co.in>
Internet : www.itiltd_india.com
Our letter: RP/ QA/ 06/ 2000-01/ 43
Date : 16.10.2001

To,

M/s Brass Copper & Alloy (India) Ltd
'A' wing, IInd floor, Mhatre Pen Building,
Senapati Bapat Marg,
Dadar (West),
Mumbai-400 028.

Kind atten : Mr. AMOL PAGARE

Sub : Approval to M/s Brass copper & alloy (India) Ltd, Dadar
(West) Mumbai for the supply of various type of copper
Lugs/Terminals.

Dear Sir,

We are pleased to inform you that DGI (A) have considered your letter ref. BCA/DLL/2000-01 dated 10.2.2000 meant for approval and they have accorded an educational census approval to the subject vendor for the supply of copper lugs and Terminals.

This EDN status approval is issued to the subject firm for copper lugs/Terminals subject to the satisfactory and timely supply of copper lugs in terms of quality during Bulk supply, failing which, approval will be withdrawn.

We have intimated our Pur Deptt for sending enquiries as per their requirements.

This is for your kind information and necessary action.

Thanking You,


Your Sincerely, 16.10.2001

(K. R Singh)

पंजीकृत एवं निगमित कार्यालय: ४५/१, मग्राथ रोड, बेंगलूर ५६००२५, भारत, फोन (९१)(८०)५६६५९६ फैक्स (९१)(८०)५५६३१८८
Registered & Corporate Office: 45/1, Magrath Road, Bangalore 560025, India Phone (91)(80)566118 Fax (91)(80)5593188

A UNIT WITH ISO 9002 ACCREDITATION

LARSEN & TOUBRO LIMITED

ENGINEERS

Registered Office :
L&T House, Ballard Estate, Mumbai 400 001

TELEPHONE : 858 1401, 858 1411
DID 858 1091

REPLY TO

Powai Works
SAKI VIHAR ROAD
P.O. BOX 8901
MUMBAI 400 072

E-MAIL :

IN REPLY
PLEASE QUOTE : ESE / MATERIALS / RDK

13.02.2003

M/s. Brass Copper & Alloy (I) Ltd.,
Plot No. 11, At Post - Vadkhamba,
Taluka - Kaparada, District - Valsad,
Valsad - 3961260

Attn. - Mr. Manish Desai

Dear Sir,

Sub - Cable Lugs & Glands

This is to inform you that the samples of Lugs & Glands submitted by you you have undergone tests at our end and the samples have passed all the desired tests.

We will be shortly releasing the orders on you for these items.

Thanks & Regards

Yours' Sincerely,
For Larsen and Toubro Limited,



R. D. Kulkarni,
Asst. General Manager - Materials



LARSEN & TOUBRO LIMITED

ELECTRICAL BUSINESS GROUP - ELECTRONIC PRODUCTS

Mysore Works, KIADB Industrial Area, Hebbal - Hootagalli, Mysore - 571 186 • Tel : (91) - 821 - 402561 • Fax : (91) - 821 - 402468

E - Mail :

Ref : **L&T/MPS/VQR05-06/BR019**

Date: 24.04.2006

**BRASS COPPER & ALLOY (I)LIMITED
3rd Floor, RAWAL BUILDING,
#2, 418, LAMINGTON ROAD,
MUMBAI 400004**

Kind Attn : Mr. Manish Desai (M.D.) / Mr. Hemant

Dear Sir / Madam,

Sub: VENDOR QUALITY RATING FOR THE YEAR 2005-06(MPS-SBU)

We are hereby enclosing your quality rating for the year 2005-06.

| | |
|-----------------------|------------------|
| QUALITY RATING | 100 |
| GRADE | VERY GOOD |

**Congratulations for maintaining VERY GOOD Grade
Please maintain the quality rating.**

The above rating has been worked on following details


| TOTAL LOTS RECEIVED | ACCEPTED/ACCEPTED WITH DEVIATION | FULLY/PARTIALLY REJECTED |
|----------------------------|---|-------------------------------------|
| 4 | 4 | 0 |

Your are requested to refer our GRN receipt reports and Non-conformity reports for further details.

| <u>VQR</u> | <u>GRADE</u> |
|-------------------|---------------------|
| Below 50 | Poor |
| 50 - 75 | Average |
| 75 - 90 | Good |
| 90 - 100 | Very Good |

Thanking You,

Yours faithfully,
For Larsen & Toubro Limited,


(Krishnaraja. V)
Manager – Materials.



NTPC LTD
BADARPUR THERMAL POWER STATION
MINISTRY OF POWER
Under management of NTPC Limited
NEW DELHI - 110044

REF NO. BTPS/C&M/PE/881/05-06/

775

DATED : 09-DEC-05

M/s. BRASS COPPER & ALLOY (I) LTD.
3RD FLOOR RAWAL BLDG NO 2,
418, LAMINGTON ROAD,
OPP. INDUSIND BANK,
MUMBAI - 400004

SUB : ENLISTMENT OF VENDORS

Dear Sir,

We thank you for your application for enlistment at BTPS against Press Advertisement. You have been provisionally enlisted for a period of three years from the date of issue of this letter for the items listed below :

CATEGORY : B

DESCRIPTION OF ITEMS

PE 0121 Cable Lugs, Thimble

Your enlistment No. is BTPS/C&M/PE/881

Please note that the enlistment is provisional and subject to further verification/inspection of your works, if required, before having any business transaction with you. Further, this is only an enlistment and does not create any legal/contractual relations.

Thanking you,

Yours faithfully,

(D.R. SORI)
Sr. MANAGER (C&M)



Government of India
Ministry of Defence
Ordnance Factory
Ambarnath
Maharashtra
Pin - 421502

Registration Certificate

This is to certify that M/S BRASS COPPER & ALLOY (I) LTD., 3RD FLOOR, RAWAL BLDG.NO.2, 418, LAMINGTON ROAD, OPP. INDUSIND BANK MUMBAI MAHARASHTRA-400004 after verification of their capacity / capability are Registered vide registration No. 1081 dated 03-11-08 and are found capable of manufacturing of the following items for defence.

| Products details | Specifications |
|---------------------|--------------------|
| CABLE TERMINAL ENDS | AS PER REQUIREMENT |
| CRIMPING TOOLS | AS PER REQUIREMENT |

No. of items for which registered : 02 only. This Certificate is valid upto: 02-11-11
Vendor Code allotted is : 15BC4000041113S21081MUMB11267E

Conditions of Registration :

1. Please apply for renewal of registration on the prescribed form at least 180 days before expiry of this certificate.
2. In case no application for renewal is received on the prescribed form within stipulated time as stated above your registration will lapse and the name of your firm will be automatically removed from the compendium of approved suppliers without any further notice.
3. Changes, if any, in address or constitution of the firm, major machinery/ equipment or technology used for the items registered should be intimated to the Registration Authority immediately on occurrence.
4. The Approving Authority reserves the right to cancel this Registration Certificate at any time during the validity of the Certificate.

Date of registration 03-11-08
Factory seal




J.S. DHADWAL
Jt. General Manager/QC
For General Manager

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)



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

केन्द्रीय कार्यालय : "सौदामिनी" प्लॉट सं. 2, सेक्टर-29, गुडगाँव-122 001, हरियाणा
फोन : 2571700 - 719, फैक्स : 2571760, 2571761 तार : 'नेटग्रिड'
Corporate Office : "Saudamini" Plot No. 2, Sector-29, Gurgaon-122 001, Haryana
Tel. : 2571700 - 719, Fax : 2571760, 2571761 Gram : 'NATGRID'

Ref: C/QA&I/VA/Lugs

Date: 06.06.2011

M/s. Vikas Power Equipment Pvt. Ltd.,
E-16, Chinhat Industrial Area,
Dev Road, Lucknow-226019.

Kind Attention.: Shri. N. Roy Choudhury

Subject: Approval of M/s. Brass Copper & Alloy (I) Ltd (HEX Brand) for supply of Lugs for LT Panels for POWERGRID Projects

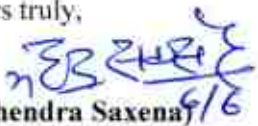
This has reference to your submission of documents for the subject matter. Based on the documents submitted by you and visit of our representative at M/s. Brass Copper & Alloy (I) Ltd, works situated at Plot No 11, Vadkhambha, Taluka-Kaprada, District Valsad, Gujarat. We are agreeable to your request for sourcing Lugs for LT Panels from M/s. Brass Copper & Alloy (I) Ltd for POWERGRID projects. However, following have to be ensured by you

- 1) Traceability should be maintained from raw material stage to the final stage.
- 2) Type test, as applicable, shall be got approved by POWERGRID.

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

Thanking you,

Yours truly,


(Mahendra Saxena)
Chief Manager (QA & I)



Rolls-Royce

Rolls-Royce Marine India Pvt. Ltd.
103, WINDSOR, KALINA,
SANTACRUZ (EAST), MUMBAI 400 098
Tel: +91-22-6640 3838
Fax: +91-22-6640 3818

To,

M/s Brass Copper & Alloy (India) Ltd.
3rd Floor, Rawal Building No. 2,
418, Lamington Road, Mumbai - 400 004 (India)

Kind Attention : Mr. Mitesh Shah

Dear Sirs,

Ref : Vendor Approval

With reference to your introduction letter and your subsequent sample submission of Brass Studding we are pleased to inform that your firm is approved by **Rolls Royce Marine India Pvt. Ltd.** for the supply of the following Brass Studding.

| RR Part No. | Description |
|--------------|-------------------|
| 60864 | M10 X 160L |
| 59310 | M10 X 180L |
| 64111 | M10 X 290L |
| 64113 | M10 X 250L |
| 70543 | M10 X 270L |

Your Faithfully

For Rolls Royce Marine India Pvt. Ltd.

Dhananjay Chavan
Manager - Procurement

M/s. Electronic Engineers
11, Damji Shamji Ind. Estate,
Complex Off Mahakali Caves,
Andheri (E),
Mumbai - 400 093
Kind Attn. : Mr. Raju Shah

Name
Division
Department
Telephone
Fax

G.P. Mulik
Poer Transmission & Distribution
PTD/M-QA
022-27623443
022-27623710

E-mail

Ganesh.Mulik@siemens.com

Your letter dated
Our reference
Date

PTD/M-QI
18th Feb 2008

Quality Approval for supply of "HEX" Lugs & Terminal

Supplier : M/s. Electronic Engineers

Material/Service supplied: "HEX" make Lugs & Terminal

The Samples submitted for the different relevant sizes of wires used by Siemens Ltd, Ptd/M-Kalawa has been passed for Dimensional Tests and Crimp joint Test as per Siemens Quality norms. Hence approved for supply to Siemens and Siemens Channel partners.

This approval is subject to annual review and approval of BOUGHT OUT PROCESS PLAN (BOPP) as per Siemens guide lines.

M/s. Siemens Ltd. Reserve the right to conduct surprise audit at random. If any nonconformity noticed during audit, vendor approval may be discontinued.

| | | |
|--|--|---|
|  For Siemens Ltd. PTD/M-PP Kalwa works |  For Siemens Ltd. PTD/M-QM Kalwa works |  |
| Siemens Ltd. | | |
| A. K. Dixit Executive Vice President Head-Power Transmission and Distribution | Postal Address Siemens Ltd. Post Box No: 85 Thane 400 601 | Office Address Siemens Ltd. Thane Belapur Road Thane 400 601 |
| Telephone +91 (022) 2760 0001-06 | Fax +91 (022) 2760 0030 | |
| Registered Office : 1-11, Pandurang Budhwar Marg, Worli, Mumbai-400 016. Telephone +91 22 2498 7000. Fax +91 22 2498 7500. Sales Offices : Ahmedabad, Bangalore, Chennai, Coimbatore, Hyderabad, Kolkata, Mumbai, New Delhi, Pune | | |
| (Form Kwa PTD/1/01 : boma021aPTDIUSER\$w154358C DIRMVEMULIK\Kwaapproval.doc) | | |
| Page 1 of 2 | | |



TOYO ENGINEERING INDIA LIMITED

TOYO HOUSE, LAL BAHADUR SHASTRI MARG, KANJURMARG (WEST),
MUMBAI - 400 078. ● TEL : (91-22) 579 9001 ● FAX : (91-22) 579 9061 / 62
INTERNET SITE : www.teil.com

REF.: PRC/0908/E-082/765

DATE : 12/09/2000

M/S BRASS COPPER & ALLOY (INDIA) LTD.
'A' WING, 2ND FLOOR,
MHATRE PEN BUILDING,
SENAPTI BAPAT MARG,
DADAR (WEST)
MUMBAI 400 028

ATTN : MR.MANISH DESAI, DIRECTOR

SUBJECT : REGISTRATION AS AN APPROVED VENDOR WITH TOYO ENGG. INDIA LIMITED (TEIL)

DEAR SIR,

WE REFER TO YOUR REQUEST ON SUBJECT MATTER AND ARE PLEASE TO INFORM YOU THAT YOU HAVE BEEN REGISTERED WITH TEIL AS AN APPROVED VENDOR FOR THE ITEMS MENTIONED BELOW :

ITEM DESCRIPTION

RANGE

CABLE TEMINAL ENDS CONNECTORS EARTHING SYSTEM
DULY TINNED / PLATED

PLASE NOTE THAT THIS RESISTRATION IS SUBJECT TO SATISFACTORY EXECUTION OF ORDERS, MAINTAINING SCHEDULE & QUALITY OF ABOVE MENTIONED ITEM IN THE EVENT OF AN ORDER FOR OUR ONGOING/FUTURE PROJECTS.

FUTHER IT MAY BE NOTED THAT ANY CHANGE IN THE FOLLOWING SHALL BE INTIMATED TO US ALONG WITH RELEVANT DOCUMENTS.

- THE PRODUCT RANGE
- LOCATION OF WORKS/SALES OFFICE
- MANAGEMENT/ORGANISATION STRUCTURE
- NEW/REVALIDATION OF ISO CERTIFICATION

YOU SHALL SUBMIT ANNUAL REPORT/BALANCE SHEET TO TEIL EVERY YEAR.

THIS REGISTRATION IS VALID TILL 30/04/2003 AND IS SUBJECT TO REVIEW ON THE BASIS OF YOUR PERFORMANCE. YOU SHALL SEND ALL THE DETAILS THREE MONTHS IN ADVANCE OF THE EXPIRY DATE FOR TEIL REVIEW FOR RENEWAL OF REGISTRATION.

PLASE NOTE, THE REGISTRATION SHALL NOT BIND TEIL FOR SENDING ENQUIRIES/PLACEMENT OF ORDERS.

TEIL RETAIN THE RIGHT TO REVIEW AND CANCEL YOUR REGISTRATION WITHOUT ASSIGNING ANY REASON

KINDLY ACKNOWLEDGE THE RECEIPT OF THIS LETTER.

THANKING YOU,

YOURS FAITHFULLY,
FOR TOYO ENGINEERING INDIA LIMITED

M. V. PRABHU
HEAD OF DEPARTMENT - PROCUREMENT





VOLTAS LIMITED

24th September 2009

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the M/s. Brass Copper & Alloy (I) limited, Mumbai has supplied Bi metallic Lugs sizes: 16 sq.mm to 630 sq.mm for our Apollo Bramwell Hospital projects in Mauriyus.

Thanking you.

VOLTAS LIMITED

International Operations Business Group

Sabir Patel
Project Manager



International Operations Business Group
Electrical and Mechanical Division

Voltas House, B. T. B. Kadam Marg, Chinchpokli, Mumbai - 400 033, India.

Tel : 91 22 66656666 Fax : 91 22 66656461 66656462 e-mail emvl@voltas.com website www.voltas.com
Registered Office : Voltas House A, dr. Babasaheb Ambedkar Road, Chinchpokli, Mumbai - 400 033, India

A TATA Enterprise

ANNEXURE 'J'

OUR ESTEEMED CUSTOMERS

ALL OVER INDIA



A Whole New Dimension In Quality



ISO 9001: 2000 CERTIFIED COMPANY

BUSINESS ASSOCIATES AROUND THE GLOBE

