



AN OVE

- Established in 1974
- Gujarat, India
- Customer 10,000

• Spread over 25 acres at Vadodara,

 Total laboratory build up area of more than 14,000 sq.m. ase of more than





AN OVERVIEW

- Total manpower strength of 410 including
 - 356 technical persons
 - 30 post graduates and research associates
- Testing of more than 50,000 samples every year
- Evaluation of more than 135 electrical products





LOCATIONS

ERDA Operates from:

- Head Office Vadodara, Gujarat
- Registered Office Rabale, Maharashtra

- -

- Regional Laboratories:
 - Gurugram, Haryana
 - Rajahmundry, Andhra Pradesh





LEGAL IDENTITY

- Not-for-Profit professional Research Organisation
- Registered under the Societies Registration Act, XXI of 1860
- Established with the support of Government of Gujarat and the Government of India (CSIR)





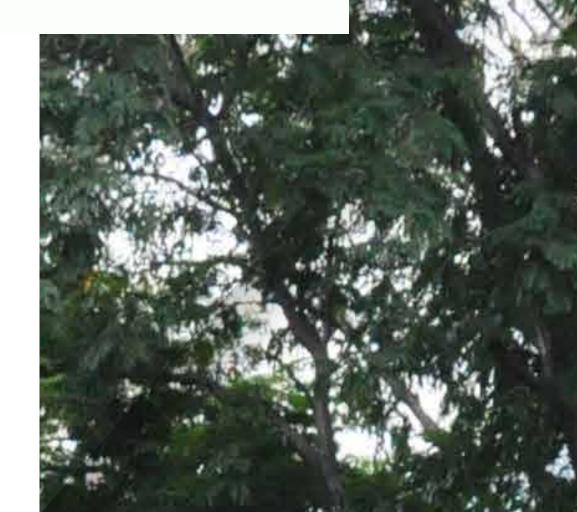


ENERGY IS LIFE





सत्यमेव जयते Department of Science and Technology Ministry of Science and Technology Government of India मानकः पथप्रदर्शकः Bureau of Indian Standards



ACCREDITATIONS NATIONAL

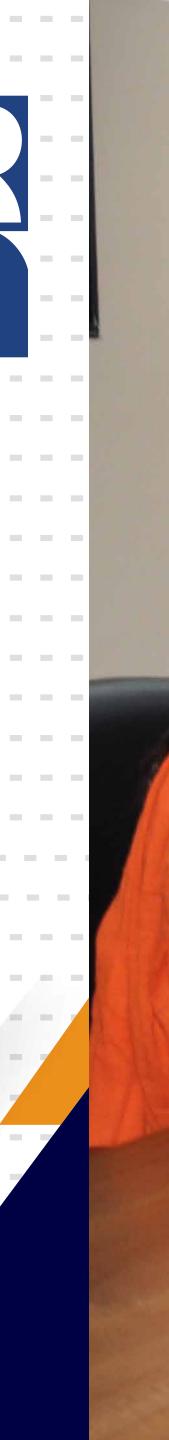
- Accredited by NABL (Govt. of India)
- Approved by BIS, BEE and PESO (Govt. of India)
- Recognized as SIRO by Ministry of Science & Technology (Govt. of India)





ACCREDITATIONS INTERNATIONAL

- Approved by
 - Intertek (ASTA)
 - DEWA (Dubai)
 - ADWEA (Abu Dhabi)
 - DCRP (Oman)
 - TNB (Malaysia)







ORGANISATI INTERNAL

 Headed & managed by highly qualified technical personnel & experienced
 professionals with core objectives of

- Achieving Excellence
- Thrust on Research & Developmer
- & Innovation -
- Customer Service





ORGANISATION INTERNAL

 Always establish and follow well laid procedures & systems

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 Emphasis on transparency & high ethical standards





ORGANISATION INTERNAL

- ERDA's surplus income is ploughed back for improvement of its infrastructure and conducting R&D in the field of electrical power
- The surplus income is not distributed as dividend or by any other means to its members





ORGANISATION INTERNAL

• Individual members of the Managing Committee have no interest in the investments of the association

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 No individual member of the Managing Committee is a debtor or creditor of the association





GOVERNMENT SUPPORT

- Established at Vadodara on land provided by Gujarat government free of cost
- Receives regular grant from Government of Gujarat for its capital projects
- Accounts get audited by CAG (Govt. of India)





IT / CUSTOM DUTY EXEMPTION

 Exempted from Income Tax and Customs duty

 Provision of maximum three government nominees (GOG & CSIR) in the ERDA Managing Committee

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XPERT SEP'



3 VERTICALS

- Testing & Evaluation
- Field Services
- R&D and Expert Services

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- 24 state-of-the-art laboratories
- Testing of more than 135 electrical products





SHORT CIRCUIT LABORATORY

Largest On-Line Low Voltage Short Circuit Laboratory in India - 120 kA, 570 V

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TRANSFORMERS

- Transformer testing facility as per IS 1180 under the mandatory BIS scheme
- ERDA tests 75% of total distribution transformers evaluated in India as per IS 1180-2014



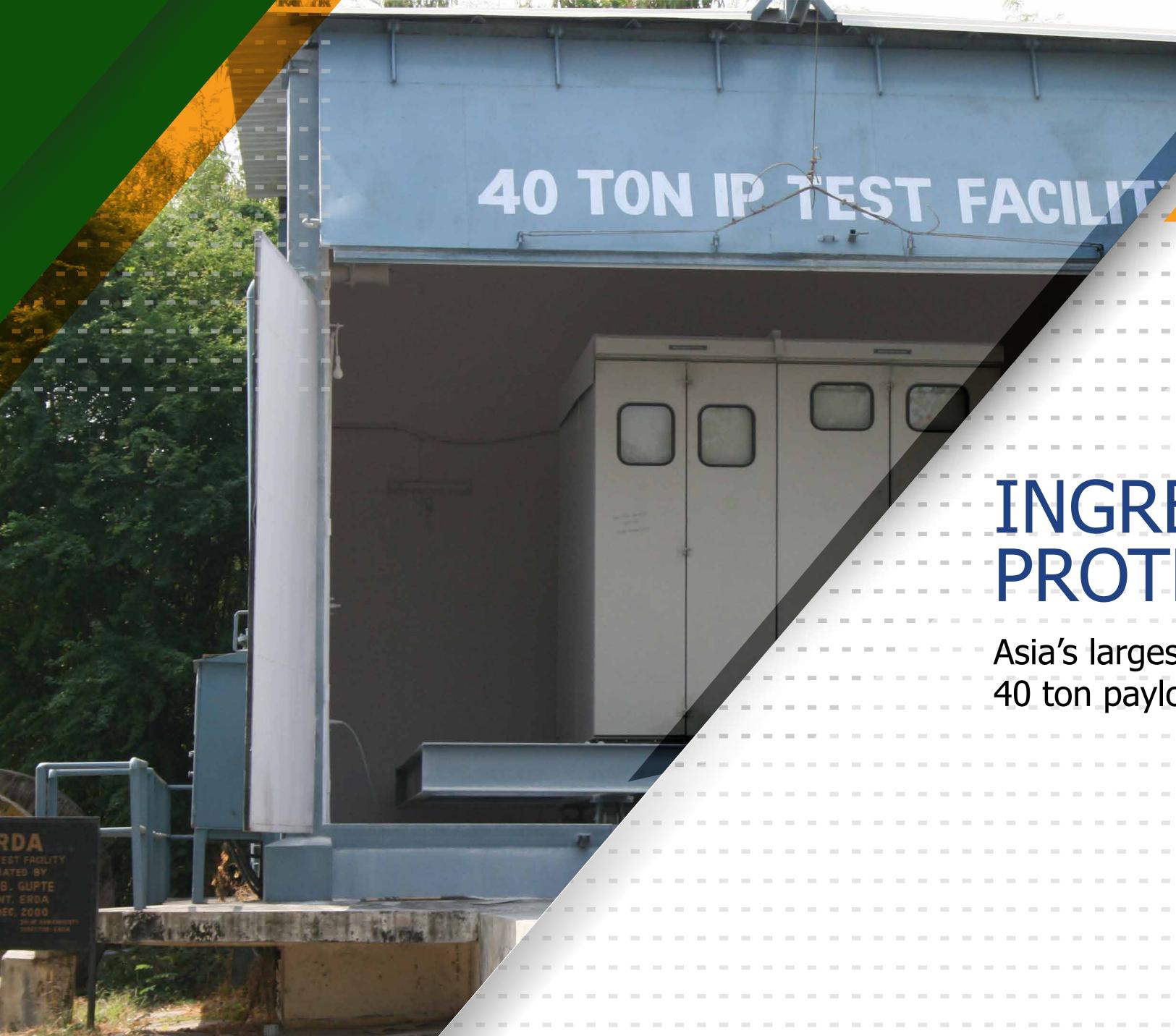


EMI/EMC

State-of-the-art EMI/EMC laboratory with 10 meter semi-anechoic chamber & 3-ton turn-table

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INGRESS PROTECTION

Asia's largest IP testing facility -40 ton payload





FIELD SERVICES

- Electrical Diagnostics for Generators, Motors, Transformer & Cables
- Mechanical Diagnostics
- Energy Audits
- Power System Studies
- Third Party Inspection





CONDITION MONITORING

Condition monitoring of lightning arrestor at live substation





R

Remnant life assessment of thermal power plant





ONSITE TESTING

NABL accredited onsite power transformer-testing-upto-100 MVA





MOBILE VAN

NABL accredited Mobile Testing Laboratory for Energy Meter / CT&PT and Oil Testing





RESEARCH & DEVELOPMENT

- Undertakes Research Projects and Expert Services in five technology missions
 - Advanced Materials
 - Renewables
 - Diagnostics
 - Power Systems
 - Smart Grids & New Product Technologies





EXPERT SERVICES

- Undertakes Expert Services in the field of
 - Power System studies
 - Power Quality measurement and analysis
 - Simulation and modelling based on finite element methods
 - Material characterisation



ARDA Uncoated coated

TECHNOLOGIES DEVELOPED

- Developed innovative patented technology on
 - Anti dust coating on solar panels
 - IE4 Induction motor
 - Charge controller for electric vehicles
 - Nano silver contact
 - Corrosion resistant paint
 - Fault current limiter
 - Online fault sensor



TECHNOLOGIES DEVELOPED - FCL

	GOVEF THE	स्यमेव जयते भारत सरकार ANMENT OF पेटेंट कार्यालय PATENT OFFICE पेटेंट प्रमाणपत्र NTCERTIFICATE 74 Of The Patents Rules)	• 화비····································
पेटेंट सं. / Patent No.		289733	
आवेदन सं. / Application No.		1200/MUM/2007	
फाइल करने की तारीख / Date of Filing		21/06/2007	
पेटेंटी / Patentee		ELECTRICAL RESEARCH AND DI ASSOCIATION	EVELOPMENT

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित FAULT CURRENT LIMITER FOR LT SWITCHGEAR AND APPLIANCES नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 21st day of June 2007 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled FAULT CURRENT LIMITER FOR LT SWITCHGEAR AND APPLIANCES as disclosed in the above mentioned application for the term of 20 years from the 21st day of June 2007 in accordance with the provisions of the Patents Act, 1970.



Date of Grant : 20/11/2017

Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 21st day of June 2009को और उसके पश्चात प्रत्येक वर्ष्ष में उसी दिन देय होगी। Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 21st day of June 2009 and on the same day in every year thereafter.



SAMEER KOCHHAR, CHAIRMAN, SKOCH GROUP





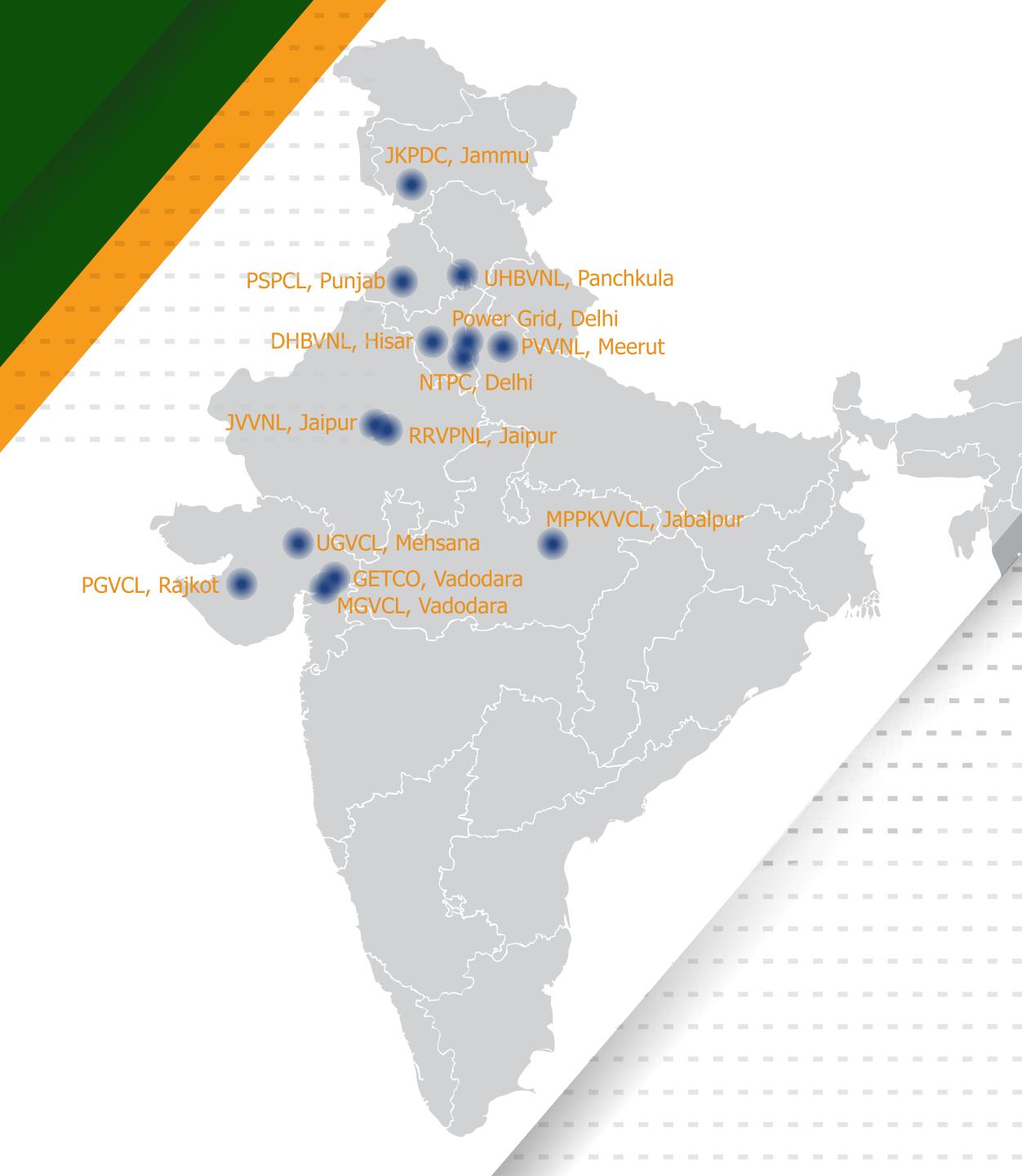


XPERT SER

CRM

- ERDA prepares around 20,000 work orders per annum
- ERDA is catering to Indian Utilities and PSUs since the last 44 years





LIST OF INDIAN UTILITIES

- JKPDC, Jammu - -
- UHBVNL, Panchkula
 RRVPNL, Jaipur
- PSPCL, Punjab
- DHBVNL, Hisar
- PVVNL, Meerut
- Power Grid, Delhi
- NTPC, Delhi

- -JVVNL, Jaipur
- - MPPKVVCL, Jabalpur
 - UGVCL, Mehsana
 - PGVCL, Rajkot
 - GETCO, Vadodara
 - MGVCL, Vadodara





LIST OF INDIAN UTILITIES

- DGVCL, Surat
- CSPTCL, Raipur
- Southern Electricity Supply Co. of Odisha • BESCOM, Bengaluru
- North Eastern Electricity Supply Co. of Odisha
- NPCIL, Mumbai

- MSEDCL, Mumbai
- TSECL, Telangana
- APTRANSCO, Vijaywada
- APSPDCL, Tirupati





INTERNATIONAL CUSTOMERS

- 50+ international customer base including all the top transformer and switchgear manufacturing companies in Middle East Region
- More than 200 panels and 100 bus ducts tested as part of ASTA Certification and tests are witnessed by ASTA observers





INTERNATIONAL CUSTOMERS

- A K Steel, USA
- Alfanar Electric Systems, Riyadh
- Alstom, Grenoble, France
- China Steel Corporation, Taiwan
- Electric House, Saudi Arabia
- Kiklanka, Sri Lanka
- Nippon Steel, Japan
- Powerbar Gulf, UAE





INTERNATIONAL CUSTOMERS

- Prysmian Cables, UK
- Pubudu, Sri Lanka
- Right Choice, UK
- Siemens, China
- Summit Power, Bangladesh
- Tamco, Malaysia
- Tetratech ES, USA



VOICE OF



То The Director, ERDA, GIDC, Makarpura, Vadodara – 390010

Sub: Appreciation for timely completion of type test on DTRs.

Dear Sirs,

We are associated with ERDA, Makarpura for more than a decade for testing of our products as per National & International Standards. We would like to thank you very much for your support for completion of type tests on PGVCL Suppliers' Distribution Transformers at your various department in last few months. We want to compliment your testing team as well as all the HOD, CRM and especially Business Development team for their extended support, quality of services and quick response on the same. Because of them, we were able to get the supply of ordered DTRs on time.

We look forward for the same support from you in future. Thanking you,

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Copy to: The C.E. (Tech) PGVCL, Corporate Office, Rajkot.

:: Save Energy For Benefit of Self & Nation::

PASCHIM GUJARAT VIJ COMPANY LIMITED REGD. & CORPORATE OFFICE, "PASCHIM GUJARAT VIJ SEVA SADAN" OFF NANA MAVA MAIN ROAD, LAXMINAGAR, RAJKOT - 360 004 CIN U40102GJ2003SGC042908 Fax No. 0281 – 2368175 E-mail: <u>proc.pg@gebmail.com</u>

Date: 1 0 NOV 2017

Yours sincerely, A Chief Engineer (Material) PGVCL: Rajkot



VOICE OF CUSTOMERS



विदुद् ब्रद्रोहे

M.P. POORV KSHETRA VIDYUT VITARAN Co. Ltd. REGD. OFFICE – BLOCK No. 8, 3RD FLOOR, SHAKTI BHAWAN, RAMPUR, JABALPUR - 482 008 (M.P.) CIN: U40109MP2002SG015120 (Telephone no. 0761-2667808, 2666040 EXTN. 270-2473, 270-2425 & 270-2461) Fax no.0761-2660048, email: cepurez@yahoo.in

We are hereby grateful to M/s ERDA for their excellent service provided to us and appreciate their hard work towards testing of our transformers at this Lab. We are also grateful to them to always arrange our testing schedule as per our requirements and complete the jobs within our urgency by working even on weekly offs & public holidays.

We praise M/s ERDA for their commitment towards their work and congratulate them to achieve the testing standard set at this Lab through which quality of transformers supplied to our stores is improved.



VOICE OF CUSTOMERS

Oman Fiber Optic Co.s.A.O.C



Sub: Appreciation for Good Work

We, Oman Fiber Optic Co. thank you for the quality of service provided by your company. We sincerely appreciate your efficient, gracious customer service, the level of detail and accountability you have demonstrated on our each project and the way you conduct business as a whole.

We have and will continue to recommend your service to other divisions and our vendors.

We are satisfied with your work and we look forward to continuing this relationship.



الشركة العمانية للألياف البصرية ش.م.ع.م

Date: 03/07/2018

LETTER OF APPRECIATION





AWARDS 2006-07

Dr. Vikram Sarabhai Award to Dr. G.S. Grewal



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AWARDS 2007-08

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WIPO Award to Dr. V. Shrinet & Dr. M.K. Shah

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AWARDS 2008-09

Dr. Vikram Sarabhai Award to Dr. M.K. Shah

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ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

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