

# **YASH HIGHVOLTAGE LTD.**

COMPANY INTRODUCTION

September 2024



# Agenda

- INTRODUCTION
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- INDIA & VADODARA IN PERSPECTIVE OF THE WORLD
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- MANUFACTURING CAPABILITY
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# Introduction

Yash Highvoltage Ltd.® (Yash®) is an established leader in power engineering & manufacturing of niche condenser graded High Voltage & High Current **Transformer Bushings** serving the global power transmission & generation landscapes for over 2 decades with highly sought after innovative solutions.

Yash® is an independent, indigenous manufacturer of HV & EHV condenser graded transformer bushings (High Voltage & High Current) with more than **35,000+ bushings** performing satisfactorily globally.

In a short span of 20 years, Yash have emerged as one of the **preferred partners** catering to the upper segment of the Power Transformer Industry (generation as well as transmission) across India & abroad.

## Key Advantages

- Comprehensive product range ready to cater to global standards.
- Proven performance record on foreign soil for **>15 years** in **60+ countries**.
- Independent player with benefit of fast decision-making advantage on business strategies, product development etc.
- International experts & renowned agents already on board.
- Support of Indian government initiatives promoting “**Made in India – for the World**” products.



YEAR OF ESTABLISHMENT: **2002**

**ISO 9001:2015** COMPLIANT

FY2023-24 TURNOVER: **INR 108 CR**



## VISION

To be recognised among the top 5 transformer bushing manufacturers in the world with global manufacturing facilities.

## MISSION

We are steadfastly committed to delivering superior quality products, highly customised solutions and exceedingly responsive services to customers; thus, offering benchmark performance and customer experience. We shall uphold the highest standards in human values and shall invest our best efforts to fulfil the expectations of all our stakeholders.



# 2025

# 2024

# 2023



# A Visionary Leader



**Mr. Keyur Girishchandra Shah** is a first-generation entrepreneur determined to create a strong & trusted brand in the power industry. In his 25 years of professional journey, he has demonstrated a unique acumen by acquiring several low performing businesses & transforming them into successful ventures with extra ordinary conviction & innovative strategies.

Under his leadership, YASH is driven from INR 30 lakh turnover in 2008 to INR 108 crores in 2023-24 in a short span of 15 years, exporting to 60+ countries, & achieved leading position in Transformer Bushings domestic market against MNC competitors such as Hitachi, ABB, CG, GE to name a few.

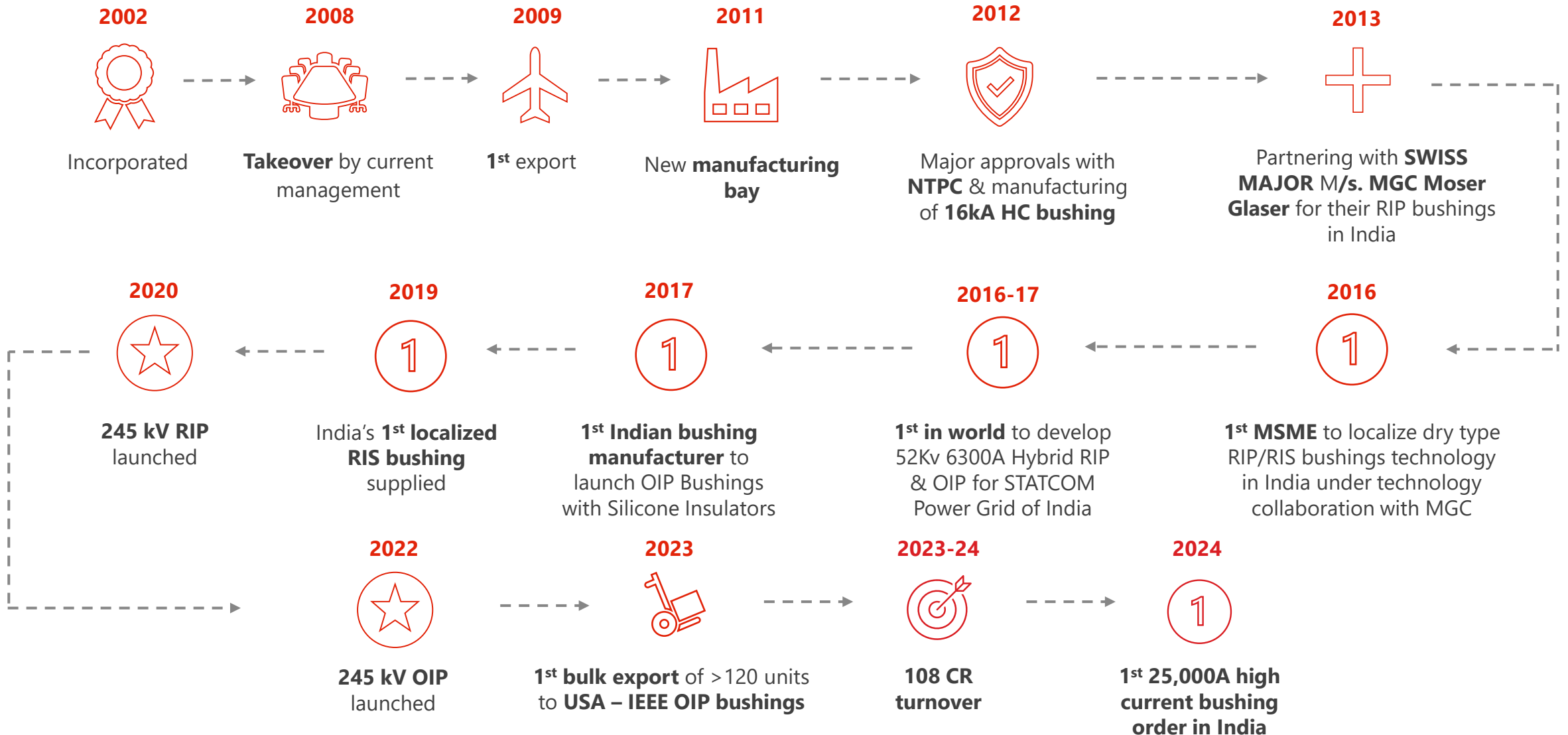
He has led equity & technology infusion from Moser Glaser Switzerland for niche & innovative dry RIP bushing solutions at Yash during 2017-2024 (buying back the stake in 2024 from Moser Glaser).

He is the Chairman of the Board, & also chairs the technical advisory plus corporate HR boards at Yash consisting of a team of industry & regional experts with over 2 centuries of collective years of technical engineering & managerial experience.

## His professional engagements include:

- Chairman & Managing Director - Yash Highvoltage Ltd., 2008 onwards
- Director – Yash Swisstech Pvt. Ltd., 2013 onwards
- National Executive Committee Member for Indian Electrical & Electronics Manufacturers' Association (IEEMA)
- Patron Member – Baroda Management Association
- Former President – Baroda Round Table 49
- Former Treasurer – Northern India Cultural Association
- Member – Rotary Club of Baroda Sayaji Nagari

# History of Yash Highvoltage Ltd.



# | Board of Directors



**MR. KEYUR SHAH**  
**MANAGING DIRECTOR**

Mr. Keyur Shah is the founder of Yash and has an experience of 25+ years in the industry. He is the Chairman of the Board, and also chairs the technical advisory board consisting of a team of industry and regional experts with over 2 centuries of collective years of technical engineering and managerial experience.

His visionary leadership and conviction has led the company to emerge rapidly as a highly sought after solution provider in the field of Transformer Bushings and a debt free organization poised for a stellar valuation and having a global technology collaborator such as Swiss based MGC. The company driven by strategic management, product innovation, and his robust business insight has been awarded in 2019 by BHEL-one of the premiere public sector units of the nation – for carrying out import substitution for RIP bushings under the Make-in-India initiative.



**MRS. TWINKLE SHAH**  
**DIRECTOR**

As a seasoned professional and the director at Yash, she brings a wealth of experience and a passion for excellence to our team. With a diverse background that includes running a successful garden boutique in Vadodara, Gujarat, she has honed her skills in business management, customer relations, and creative design. Her role at Yash allows her to leverage these strengths, contributing to our company's growth and success.

# Board of Directors



**MR. R. N. NAYAK**  
**INDEPENDENT DIRECTOR**

With an experience of about 36 years in various capacities at various senior level positions in premier Central Public Sector Undertakings (PSUs) in power sector such as POWERGRID Corporation of India Limited, lastly as Chairman and Managing Director of the Company & at NTPC & SAIL Limited, Mr. Nayak has led & motivated a team of about 10,000 employees of POWERGRID having different categories of people towards an extraordinary turnaround feat resulting in more than doubling the assets, revenue, profit etc. over a period of three years. He possesses experience practically in all areas of power sector i.e. Generation, Transmission & Distribution & almost all departments of a company.



**MR. SANJOY KUMAR GOEL**  
**INDEPENDENT DIRECTOR**

Mr. Sanjoy Kumar Goel holds the position of General Manager & Dy. CFO of State Bank of India (SBI) & has led the Financial Reporting & Taxation Department. He has joined SBI in 1988 & have more than 32 years of in-depth experience in financial reporting, taxation, risk management and treasury combined.

He has also handled various foreign assignment to lead the Central Treasury Back Office, based in Hong Kong serving 8 countries.

He is leading a team of more than 60, Chartered Accountants along with experienced bankers.



**MR. SURIL MEHTA**  
**INDEPENDENT DIRECTOR**

A chartered accountant by profession, Mr. Mehta has over a decade's experience, is part of the Transaction Advisory practice of K C Mehta & Co, LLP, & leads the team in tax & regulatory advisory, restructuring, strategy formulation & valuation services. He is experienced in closing M&A transactions, including negotiation, structuring from a legal, regulatory & tax perspective, & other transaction support services spanning across a wide range of industries, involving niche sectors like shipping industry, education sector, etc., & is actively involved in advising clients to set up operations in the Gift city/IFSC, including Fintech, Alternative Investment Funds, Family Investment Funds, shipping entities, etc.



**MR. HARTMUTH FETHKE**  
**NON-EXECUTIVE DIRECTOR**

Mr. Fethke has 40+ years of industry experience with European majors like ABB Micafil (Switzerland) & HSP (Siemens, Germany). From design, development, & management of high voltage equipment & transformer bushings, he has made several breakthroughs. He has been associated with Yash for a decade & contributed extensively towards bolstering Yash products, process & technology to be at par with international quality standards.



# | Yash Sr. Management Team



**MR. SUMIT PODDAR**  
**CHIEF FINANCIAL OFFICER**

With 25+ years of experience in oil & rubber, metal & mining, & investment banking, Mr. Poddar serves as a strategic financial advisor to the MD. He oversees financial planning in line with company goals, safeguards stakeholder interests, & collaborates across departments to meet operational goals with efficient resource mobilization, evaluation of investment plans & making economically viable decisions for the organization.



**MR. TUSHAR LAKHMAPURKAR**  
**COMPANY SECRETARY**

Mr. Tushar Lakhmapurkar, is having over 29 years of experience in the area of Secretarial, Legal, Insurance and Risk Management of the Company. He has worked with various NBFC, Power Sector, MNC and other Manufacturing Sectors. Being reporting to the Managing Director of various companies, he has exposure to liaison with BSE Limited, NSE Limited, to appear before SEBI authorities. He dealt with various legal matters of the Company before various District Courts, High Court, Supreme Court, NCLT and other tribunal authorities.



**MR. NIRAV PATEL**  
**EXECUTIVE DIRECTOR –**  
**GLOBAL BUSINESS**

Mr. Nirav Patel, an electrical engineer, with over 18 years in the power industry, excels in global sales, marketing, operations, & branding. His significant contributions to Yash include facilitating international business growth, establishing global channels, & nurturing relationships with key export clients. As a senior management team member, he plays a vital role in identifying new markets & products, contributing to the company's global brand development.



**MR. GAUTAM NIKAM**  
**EXECUTIVE DIRECTOR –**  
**OPERATIONS**

Mr. Gautam Nikam, an electrical engineer with 14+ years of experience in the power industry, has a pivotal role as a COO in optimizing plant operations, implementing strategic business plans, leading the crucial technology function & policy making, & capex planning. His expertise in the intricacies of bushing, from design, manufacturing & testing highlights his comprehensive understanding of the industry.

# Sr. Consultants



**MR. DAVID STOCKTON**  
**ADVISOR - GLOBAL STRATEGIES**

Mr. Stockton advises Yash on global strategy, business development, marketing & sales, & executive management. With over 2 decades of experience in transformers, components, & insulation, he has served at ABB & The H-J Family of Companies. He helps Yash expand through market penetration, multinational localization, & portfolio expansion opportunities, leveraging his extensive business travel to more than 50 countries.



**MR. CHRIS GERBER**  
**CHIEF STRATEGY OFFICER (EMEA)**

Mr. Gerber is the CSO with 20+ years of experience in the industry having worked in the international transformer manufacturing, power generation & distribution utility, after sales & services & consulting environments. He forms part of the Strategic & Advisory Board & is responsible for strategy formulation, implementation & business development in EMEA.



**MR. BISWAROOP UKIL**  
**STRATEGIC ADVISOR – S&M**

Mr. Ukil has 34 years of association with CG where he grew to VP - Marketing for all 3 business verticals of Asia region. He also held additional responsibilities as Business Head of Engineering Projects division, Electricity Distribution at Jalgaon circle, Distribution Management System & automation business, reporting to MD. He has worked in KEC as a Subject Matter Expert for Substation Business, both domestic & International, & Transrail Lighting to develop their S/S business



**MR. PRAMOD RAO**  
**TECHNICAL ADVISOR**

Mr. Rao is an electrical engineer with over 45 years of experience in highvoltage engineering & power industry. His experience spans from engineering & design, manufacturing, high voltage testing & ultimately leading the business as P&L Head for Bushings & Instrument Transformers business of CG-Global in India. He advises Yash on several technical fronts including product design & development, process enhancement & manufacturing excellence.



**MR. Y. V. JOSHI**  
**SR. EXPERT – POWER UTILITIES**

Mr. Joshi has 37+ years of experience with India's most powerful state transmission utility, GETCO. He is renowned in Indian power utilities for bringing innovations in LV to EHV class electrical equipment technologies, quality assurance, asset management for reliability, economy & sustainability. Distinguished member of CIGRE & Ex-President of ERDA, including CEA, BIS, CBIP, IEEMA, Mr. Joshi adds immense value in Yash to analyse market trends & address pain areas from utilities point of view.

# | Sr. Operating Team



**MR. VIDYADHAR SHEVADE, Sr. VP – Sales & Marketing (India)**

Mr. Shevade, an Electrical Engineer, has over 37 of distinguished career in design, testing, & marketing in the electrical sector. Over last decade, he headed the PAN India marketing at CG for Extra High Voltage products, including Instrument Transformers, Bushings, Circuit Breakers, Lightning Arresters, & Gas Insulated Switchgear. At Yash, he will lead our domestic sales & BD team in driving strategic initiatives & delivering high-quality solutions to our clients.



**MR. SATISH ASHTAKAR, Sr. VP Operations**

Mr. Ashtakar has completed B. E. Mechanical and EPGP from IIM- Kozhikode has around 25 years of experience. His addition to the team brings a plethora of opportunities & possibilities to excelling Yash's operations & management.



**MR. GIRISH KULKARNI, Head – Quality Control**

Mr. Kulkarni, Head of QA&QC at Yash, brings over 30 years of manufacturing experience, specializing in quality, after-sales service, and Six Sigma methodology for bushings, instrument transformers & LA. He oversees the implementation of the Quality Management System and ensures comprehensive QA for Yash's bushings.



**MR. P M YADAV, Head – Services**

Mr. Yadav is a seasoned techno-commercial professional with 23 years of experience in the transformer industry. With extensive expertise spanning over Production Planning, Operations, BD, Branding, & Customer Relationship Management, he plays a pivotal role in Yash's Services division, dedicated to fostering lasting customer relationships.



# | Sr. Operating Team



**MR. MADHUR DUBEY, Sr. Manager – Marketing & Business Development**

Madhur is an experienced Business Development Manager in the power and transformer industry with a strong background in customer service, sales, and strategic planning. He holds a Bachelor Degree in Engineering from RGPV with expertise in fields of industrial digitalization, expanding business opportunities, transformer and generator services.



**MR. VIKAS KUMAWAT, General Manager – IT**

Mr. Kumawat has 20 years experience as an IT professional. Ex. L&T, INOX. Qualified Master in computer application, Sap S4 Hana certified specialist. information security management system and Business Continuity certified professional. Awarded IT Infrastructure leader of the year 2023.CIO100Rich experience in ERP Implementation, IT INFRASTRUCTURE Management, IT Security, Digital Transformation and implement and support Manufacturing 4.0.



**MS. DEBANJANA MUKHERJEE, Head – Branding & Global Positioning**

Ms. Mukherjee has done M.Sc. in psychology and is an ITIL® certified communication and process specialist with over 15 years of experience in client success management, IT service delivery, driving operational excellence, and digital corporate and investor relations consultancy. With a strong working background in corporate communication, brand strategy and management, and digital and traditional marketing, she plays a key role at Yash in developing and managing the brand and communications strategy and campaigns aimed to strengthen the global positioning and brand identity of the company.

# Our Full Product Range



- **Independent Manufacturer** of Transformer Bushings
- **Indigenous Products:** Oil Impregnated Paper (OIP) Capacitive Bushings & High Current Bushings
- **World-class** comprehensive range of products

## OIP CONDENSER BUSHINGS

**Rated Voltage:** 15 kV – 245 kV

**Rated Current:** Upto 3150 A\*

### Standards:

IEC-60137:2017 / IEEE C57.19.00/01 / Others

**Connection:** Draw lead / Draw rod / Stem type

**Housing:** Porcelain / Composite / Silicone-Polymer

\*Customized rated current >3150A available upon request

## OIP WALL BUSHINGS - OIL TO OIL BUSHINGS

**Rated Voltage:** 24 kV – 245 kV

**Rated Current:** 400 A – 3150 A\*

### Standard:

IEC-60137:2017 / IEEE C57.19.00/01 / Others

**Connection:** Draw lead / Draw rod / Solid conductor

**Housing:** Porcelain / Composite / Silicone-Polymer

\*Customized rated current >3150A available upon request

## HIGH CURRENT BUSHINGS

**Rated Voltage:** 24 kV – 52 kV

**Rated Current:** 4000 A – 25000 A

### Standard:

IEC-60137:2017 / IEEE C57.19.00/01 / Others

**Types:** Oil filled / Communicating / OIP Condenser

## RETROFIT SOLUTIONS

Interchangeable solutions possible for OIP-to-OIP, OIP-to-RIP, OIP-to-RIS bushings of global reputed makes for up to 245 kV and 25,000 A.

## RIP/RIS CONDENSER BUSHINGS

**Rated Voltage:** 24 kV – 245 kV

**Rated Current:** 400 A – 3150 A\*

### Standard:

IEC-60137:2017

**Connection:** Draw lead / Draw rod / Stem type

**Housing:** Composite / Silicone-Polymer

\*Customized rated current >3150A available upon request

AVAILABLE FOR EXPORT

FOR INDIA ONLY

# Our Comprehensive Retrofit Solutions

- ✓ Bushings, having an average lifespan of 30 years, depending on service conditions, may require maintenance/retrofit (replacement) earlier than 30 years due to several ageing factors e.g., Temperature, Voltage, etc.
- ✓ Shortage of spare parts for older bushing designs due to legacy models, unavailable original manufacturers or technological advancements creates rising demand for bushings replacement.

## Our Retrofit Solutions: An interchangeable bushing solutions for any reputed global make

### A Comprehensive Bushing Retrofit Solutions

- One-to-one replacement of old bushings with new advanced bushings
- Offering an upgrade to advanced dry-type bushings (RIP/RIS) from traditional OIP bushings
- Flexible procurement options for any quantity of bushings needed
- Swift development times for non-standard designs and parts
- On-site evaluations and measurements offered
- In-house testing capabilities for new designs, including impulse and cantilever testing

### B On-Site / Off-Site Bushings Technical Testing & Analysis Services

- Our dedicated services team provides on-site "Capacitance and Tan Delta" test services for bushings, aiding in early fault detection and condition monitoring
- With 20+ years of expertise, our engineers offer valuable recommendations for corrective action during bushings assessments, ensuring optimal performance

### C On-site / Off-site Bushings Repairing Services

- Transformer bushings, particularly those with porcelain insulators, require careful handling and maintenance
- Our service team offers specialized repair solutions, including porcelain replacement and comprehensive overhauling

## Retrofit solutions offered to the customers



145kV OIP bushings retrofitted to replace existing OIP bushings having tan delta issues – at an Aluminum Plant in Central India

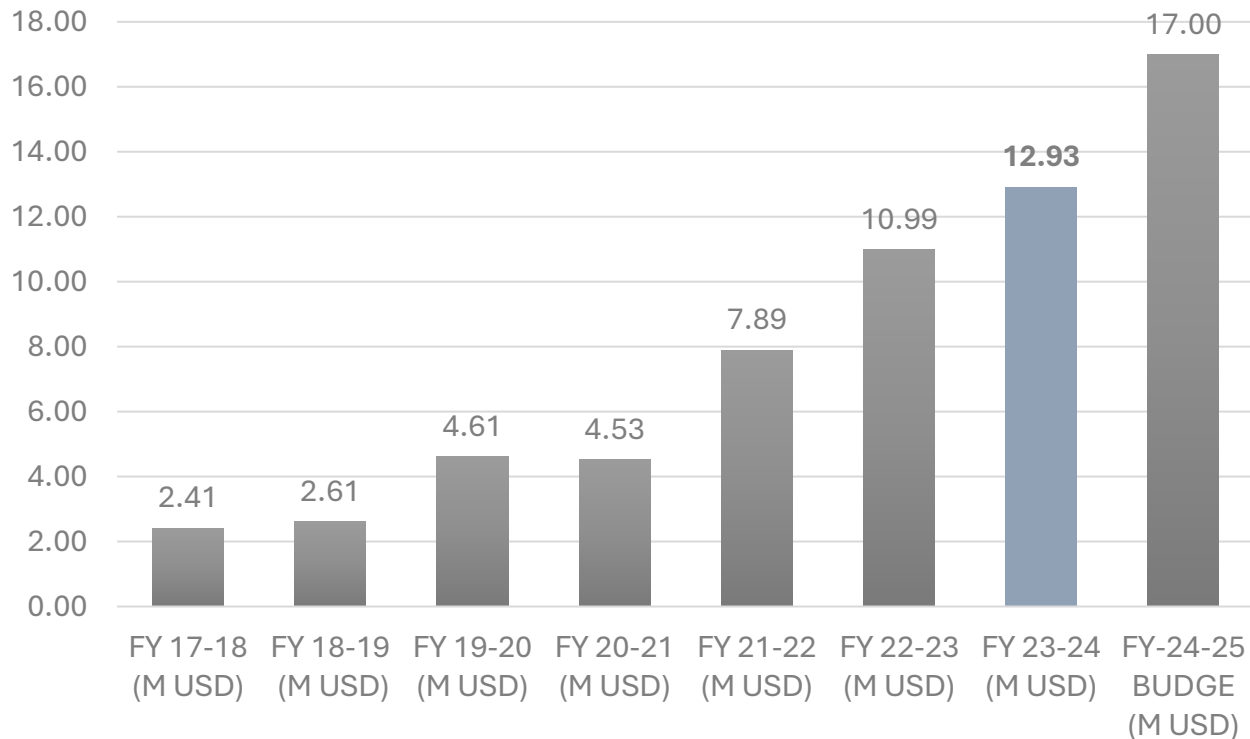


Specialized retrofitted bushings for 36kV & 52kV 1250A OIP condenser bushings for a Transmission utility in Central India



# Quick Stats

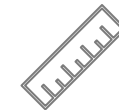
SALES (M USD) - FY 17/18 TO FY 23/24



Total employees  
**250+**



Accumulated  
knowledge of sr. team  
**130+ years**



Engineers  
**70+**



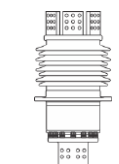
Manufacturing area  
**~65,000 sq. ft.**



Operators  
**130+**



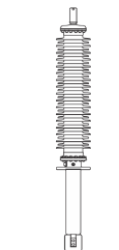
Open area  
**>100,000 sq. ft.**



High Current  
Bushings supplied  
till date  
**4500+**

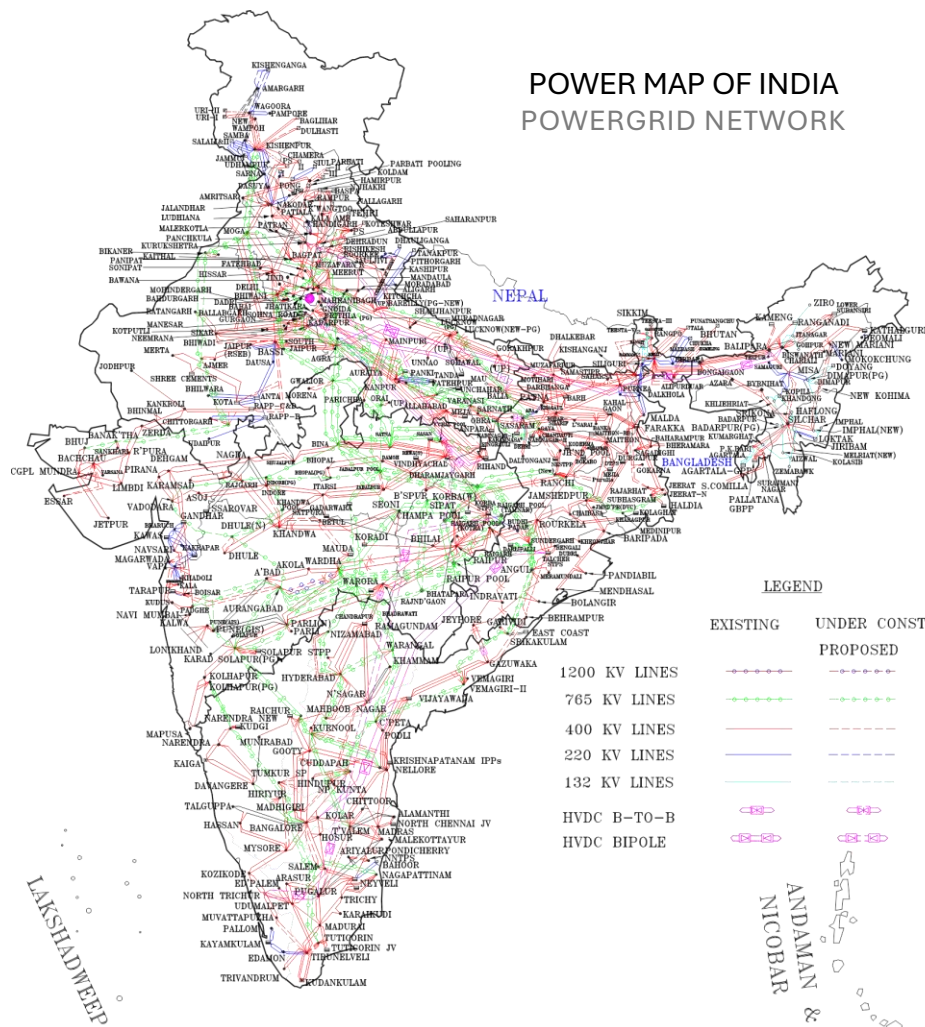


OIP Bushings  
supplied till date  
**23,000+**



RIP Condenser Bushings supplied since 2017  
**10,500+**

# India – One of the Largest Operational Synchronous Grids in the World



POWER MAP OF INDIA  
POWERGRID NETWORK

WORLD'S **3RD LARGEST** PRODUCER & CONSUMER OF ELECTRICITY

THE NATIONAL ELECTRIC GRID IN INDIA HAS AN INSTALLED CAPACITY OF  
**416 GW** AS OF MARCH 2023



## AREA

Approx. **3,287,263** sq km



## POPULATION

**1.4** bn



## TOTAL POWER GENERATION IN FY2022-23

**1844** TWh



## NO. OF STATES

**28**

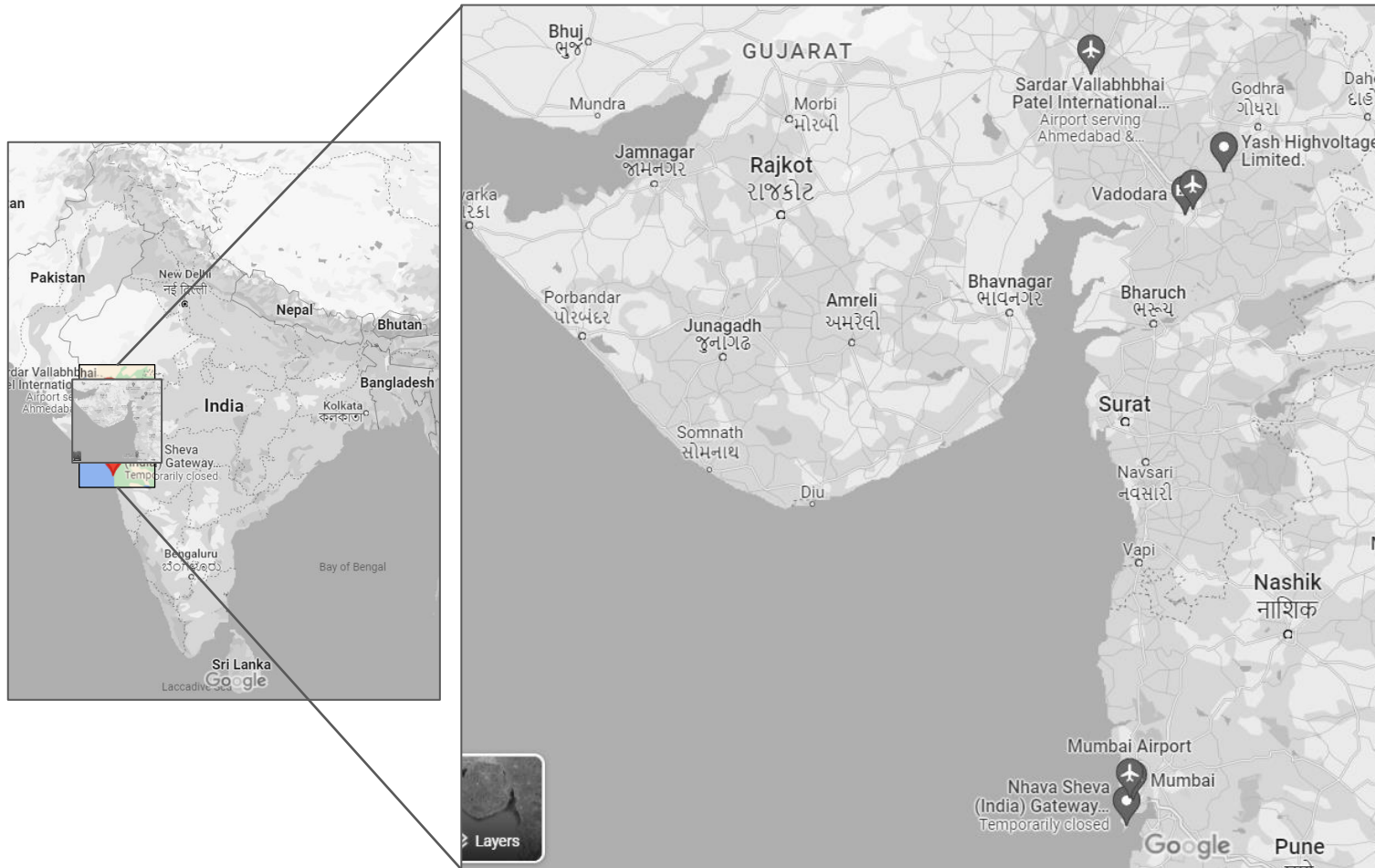


## UNION TERRITORIES

**8**

# Vadodara – the Transformer Hub of India

India is the 2<sup>nd</sup> largest Transformer manufacturer globally, most of them having situated in Vadodara.



## Major Sea Ports:

Mumbai Nhava Sheva – 466 km  
(1 day by road)



## Major International Airports:

Mumbai – 448 km (1 day by road)

Ahmedabad – 132 km (2 hours by road)

Vadodara airport – (2 hours by road)

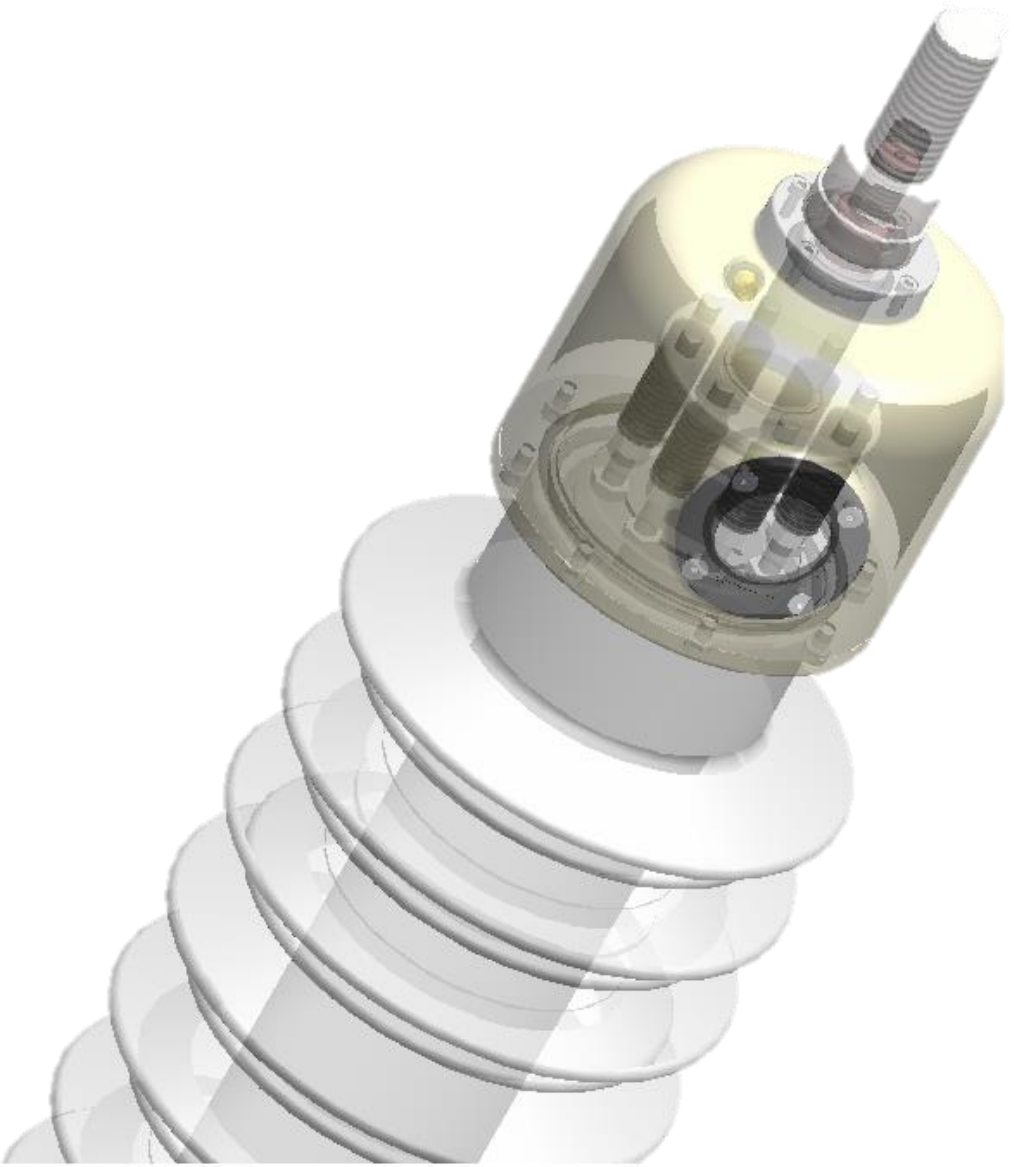


## Robust Freight forwarders & CHAs:

Well established network of Freight forwarders & CHAs enables us to ship around the world



# | Quick Facts



- **The first Indian** manufacturer of **25,000 A High Current bushing**
- **Leading Indian transformer bushing manufacturer** to have developed & supplied transformer bushings as per the **IEEE/ANSI standard for USA & European markets.**
- **35,000+ products** installed globally
- Installation over **60+ countries**
- **1,000+ customers** served over 2 decades
- Approved by **all** generation, transmission & distribution **utilities of India.**
- Yash bushings are installed in **all nuclear power generation utilities of India**
- Only **2<sup>nd</sup> company in world** to develop **OIP Condenser bushing with Polymer insulator**

# Installed in 60+ Countries



# Few of Our Esteemed Patrons

## TRANSFORMER OEMs



## END CUSTOMERS



## GLOBAL CUSTOMERS





# World-Class Infrastructure

## High Speed - Condenser Core Winding machines

Our winding machines have a combined output capacity of winding upto 500 active parts each month for OIP & high current bushings.



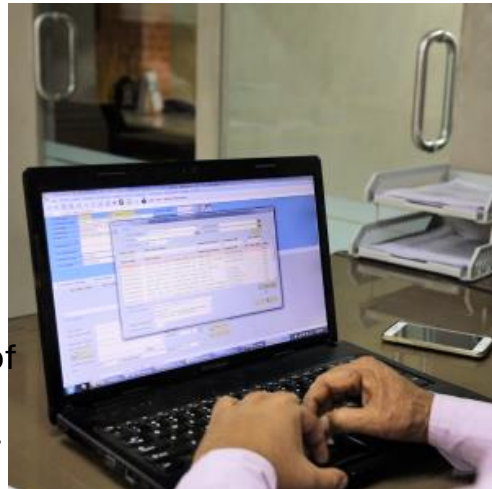
## Fully integrated Oil Storage & Handling system

Our fully integrated facility for raw oil storage, processed oil storage & used oil storage, with online re-filtration provides efficient oil management for the production of large batches of OIP cores across all autoclaves.



## Integrated ERP system

Our customers highly appreciate our fully integrated ERP system with stages covered from lead generation to after-sales, optimizing the material flow tied seamlessly to our quality management principles, & providing the quickest retrievability of data at any stage - thus leaving nothing to chance for us to serve our customers timely & well.



## SCADA Controlled Autoclave system

In 2020, Yash added a brand-new autoclave system with fully automatic vacuum drying & oil impregnation cycle management for OIP condenser cores processing, in addition to the existing autoclaves. This doubled the annual capacity for condenser core impregnation to about 8000 units total.





# World-Class Infrastructure

## Electrical Testing Capability

- High voltage (Dry Power Frequency testing) 600kV
- Impulse testing
- Partial discharge testing
- Tangent delta (Dissipation factor) testing
- Capacitance testing



## Additional In-house Type Testing Capability:

- Temperature rise test
- Cantilever test

Various field performance reports from end-users over the past 10 years. Our 600kV EHV test lab has online oil filtration capabilities, automatic test report generation & state-of-the-art test equipment from globally renowned brands such as HAEFELY.



## Impulse lab with capability of 1500kVp

Capability for testing Lightning Impulse & Chopped/Switching Impulse as per IEC 60137:2017

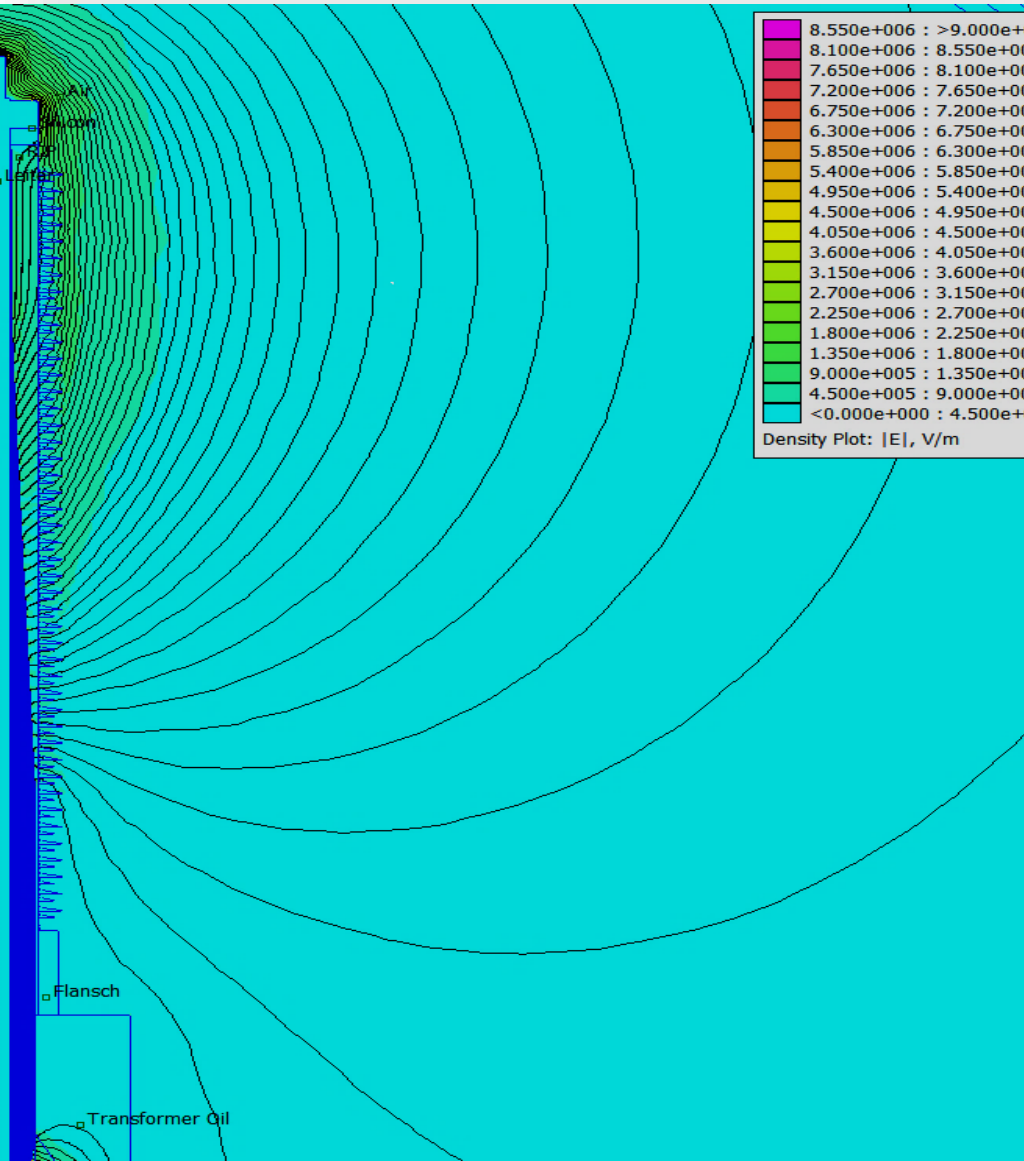


## Online Bushing Oil Flooding System

Brand new automatic oil flooding & levelling system commissioned in 2020 augmenting the existing production capacity & increased process capability of oil filling under fine vacuum.

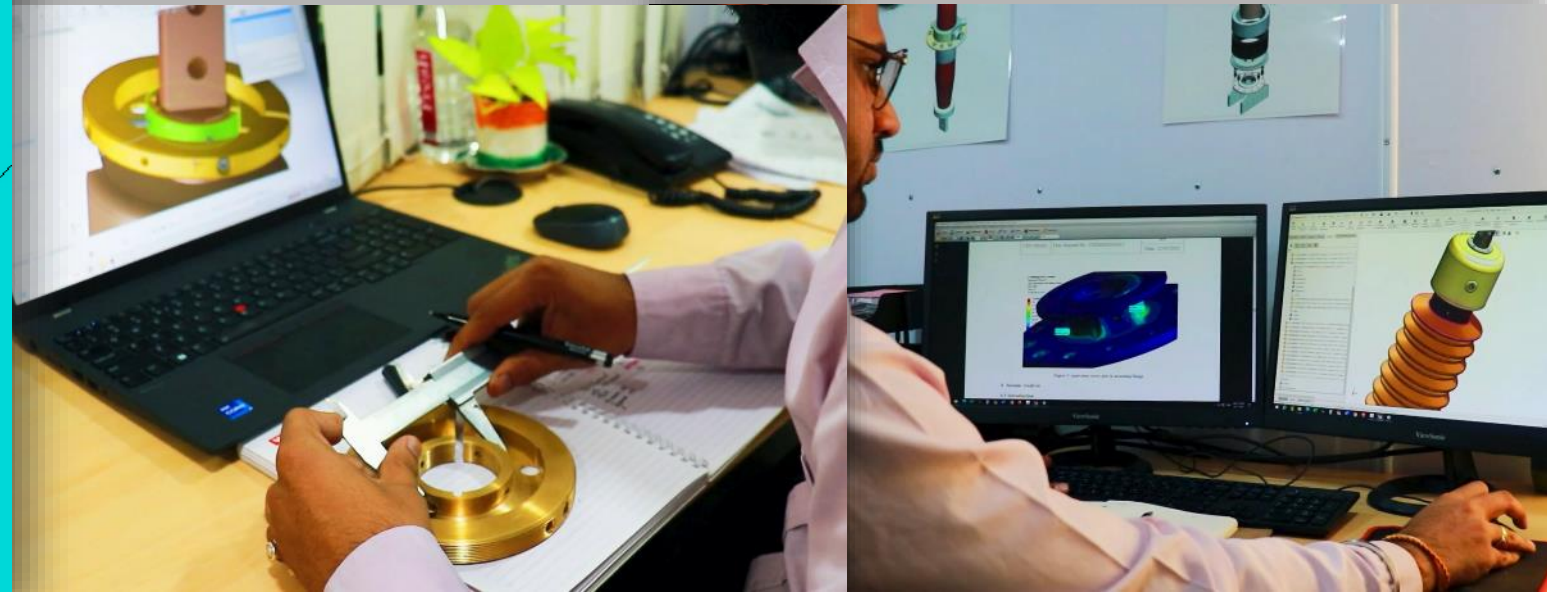


# Design Precision by Industry Experts









Yash has some of the brightest & most experienced minds in the industry working on our products & quality excellence. Our team of experts have more than 100 years of combined experience hailing from the best in **Transformer Bushings, Power Transformers, Instrument Transformers & High-voltage Substation Engineering & allied fields**, having spent distinguished careers with notable MNCs & utilities in India & Europe.

At Yash, our industry best **3D computer-aided modelling** coupled with **Finite Element Method (FEM) simulations** for design calculations & analysis, delivers perfection in prototype development & design validation.



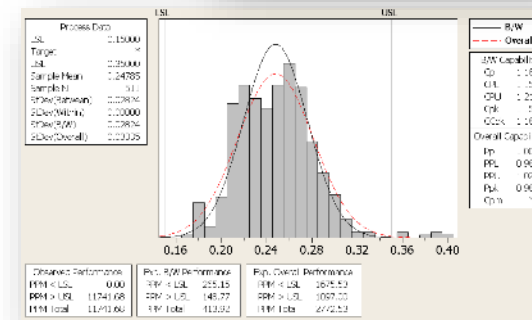


# NABL Accredited Inhouse Lab

EQUIPMENT	CAPACITY	MAKE	COUNTRY
Partial Discharge testing	Lab ambient <2 Pc	 <b>HAEFELY</b> Current and voltage – our passion	Switzerland
		 <b>OMICRON</b>	Austria
Tangent delta (Dissipation factor testing)	-	 <b>HAEFELY</b> Current and voltage – our passion	Switzerland
Capacitance testing	-	 <b>HAEFELY</b> Current and voltage – our passion	Switzerland
High voltage (Dry Power Frequency Testing)	550kV	 <b>FSHV</b>	China
Impulse testing	1500kVp	 <b>BHT</b>	China



100% OIP Bushings at Yash are subjected to OIL FILLED pressure test at **1.8 kg/cm<sup>2</sup>** for **16 hours** to establish leak-tightness.



The autoclave process for capacitive cores for OIP bushings is controlled through **SCADA system-based Autoclave Ovens**.




A guaranteed tangent delta of **<0.4% at 50/60 Hz** for all OIP bushings is achieved.

# Type Testing at Accredited Labs

PIFFNER TEST LAB – SWITZERLAND – ACCREDITED TO INTERNATIONAL LABORATORIES COLLABORATION AGREEMENT (ILAC)

 Current and voltage – our passion	
<b>Test report</b> <b>No. VB3 – 003e</b>	
Version:	1.0
Date of edition:	30 <sup>th</sup> November 2017
Number of pages:	15
 	
Accredited testing laboratory to ISO/IEC 17025 for - Instrument transformers - High voltage tests Accreditation number: STS 0210	
<b>Object:</b>	<b>Type:</b>
	<b>OIP 170kV 800A 300CT Condenser Bushing</b>

ERDA TEST LAB – INDIA – ACCREDITED TO NABL, WHICH IS A MEMBER OF INTERNATIONAL LABORATORIES COLLABORATION AGREEMENT (ILAC)

 Certificate No. : TC-5389	<b>ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION</b> (Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India) ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India. EPABX : +91 (0265) 2642942, 2642964, 2642377, 3043128 / 29 / 30 / 31 / 33 Fax : +91 (0265) 2638382 E-mail : erda@erda.org Web : http://www.erda.org	 
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The **Electrical Research & Development Association - ERDA** (<https://www.erda.org/>) is accredited with **National Board of Accreditation for Laboratories (NABL)** in India.

(Certificate no. TC-5389)

This, along with **NABL logo** is visible in each **ERDA type test report** in top left corner.

**NABL** follows accreditation guidelines as per **IEC 17025** & is a signatory of the **Mutual Recognition Agreement (MRA)** for the **International Laboratories Accreditation Co-operation (ILAC)**.



# Stringent Quality Measures

ISO 9001:2015 COMPLIANT



## STATE-OF-THE-ART ASSEMBLY BAY

OIP & RIP bushing assembly at Yash is carried out in **ambient controlled, enclosed & dust-free assembly** areas with due monitoring of particle count inside the areas to ensure a clean & well-controlled assembly process.



## QUALITY FOCUS

Our constantly evolving quality culture is now a lean system of checks & balances with numerous customer audits & compliances that meet the needs of major global MNCs producing Power transformers up to 765kV class.

Our quality systems is benchmarked with global standards through meeting the full-scale plant & product inspections criteria of discerning end-users such as **Power Grid, NTPC, NPCIL & RDSO** & many more utilities.



## BEST-IN-CLASS SUB-VENDORS

We have best-in-class **vendor management system** to identify & develop our sub-vendors for various raw materials. Special focus is given to selecting established brands / makes for the supply of premium material.

Each vendor is subjected to **vendor approval process** including **regular inspection** at their factory, **random quality checks, sampling & testing at accredited TPL.**



## ROBUST PACKAGING

- Environmentally conscious packaging
- High quality pine wood packing for longevity
- High density poly urethane packing cushion for impact resistance in transit & for ease of repackaging
- Shock-watch labels applied standard on all packing cases
- Hinge & latch type cover on packing cases provides ease of operation

# Made to Order for Global Standards

## OIP CAPACITIVE BUSHINGS AS PER IEC 60137:2017

### **RATED VOLTAGE:**

24 kV ~ 245 kV

### **INSULATOR:**

Porcelain – Brown /  
Hollow Silicon  
Insulator – Grey

### **CURRENT:**

Upto 3150 Amp

**20,000+**

Bushings executed



## OIP CAPACITIVE BUSHINGS AS PER IEEE

### **RATED VOLTAGE:**

25 kV ~ 230 kV

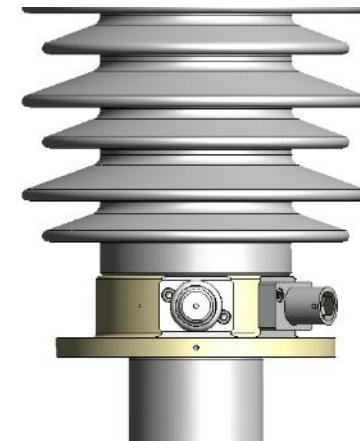
**INSULATOR:** Porcelain  
– Brown / Hollow  
Silicon Insulator – Grey

### **CURRENT:**

Up to 3000 Amp\*

**20kV Potential  
Tap for >115kV**

\*Current rating >3000A available upon request.  
Seismic calculations as per IEEE 693 available upon request





# Manufacturing Capacity

BUSHING TYPE	ANNUAL PRODUCTION CAPACITY (UNITS)	UTILISED AS ON AUG 2023	REMARKS
OIP Bushings (Oil-Air type) IEC/IEEE standards	6,000	50%	
High Current Bushings (Oil-Air type)	1,000	20%	
Oil-Oil bushings / Wall bushings	500	10%	
Retrofit / Custom made bushings	500	20%	
<b>TOTAL</b>	<b>8,000</b>		Expanding to 12,000 units by March 2024*

\*Capex Additions to increase manufacturing capacity have been ordered

**New High speed winding machine** for capacitive cores up to 245kV

**SCADA Controlled Autoclave ovens**

**New production areas** for winding, autoclave & assembly under construction

115kV 800A 584 BCT OIP for VIRGINIA TRANSFORMERS – USA



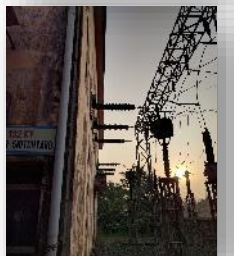
OIP BUSHINGS WITH POLYMER INSULATORS FOR ITALIAN RAILWAYS' HIGH-ALTITUDE APPLICATIONS



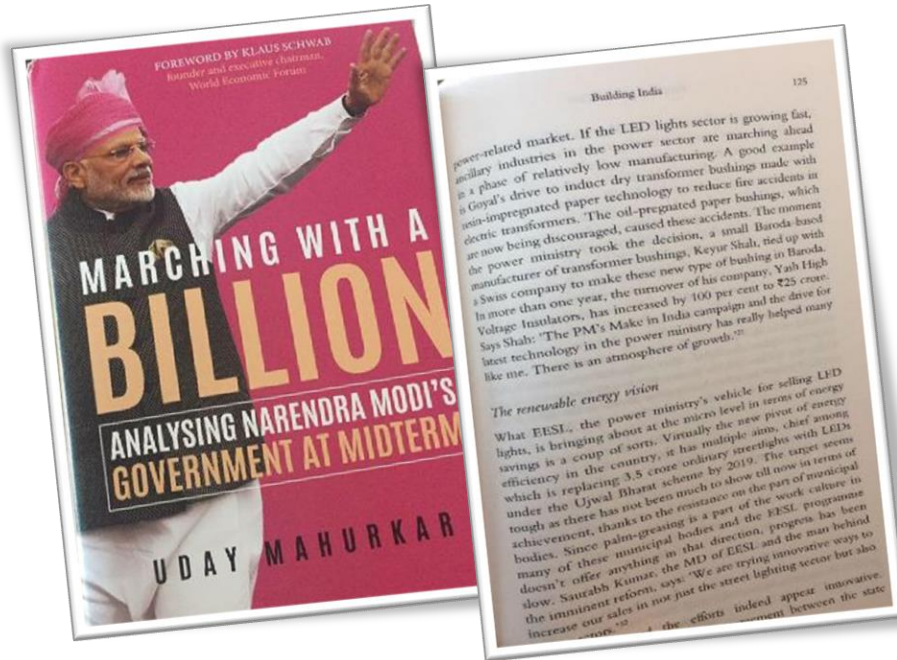
145KV OIL-OIL CONDENSER BUSHINGS FOR TATA POWER



145KV AIR-AIR CONDENSER WALL BUSHINGS - FOR AN INDOOR SUBSTATION



# Rewards & Recognitions



Yash's exemplary efforts acknowledged in the book on Hon'ble PM – Mr. Narendra Modi – **“Marching with a billion”**, by Uday Mahurkar.



## Notable mention:-

“

... The moment the power ministry took the decision, a small Baroda-based manufacturer of transformer bushings, Keyur Shah, tied up with a Swiss company to make these new type of bushing in Baroda. In more than one year, the turnover of his company, Yash Highvoltage Insulators, has increased by 100 per cent to Rs. 25 crore.

Says Shah: 'The PM's Make in India campaign and the drive for latest technology in the power ministry has really helped many like me. There is an atmosphere of growth.

”



**GEO Excellence Award** for Entrepreneur Leadership (MSME) 2024.



Awarded in 2019 by **Bharat Heavy Electricals Ltd.** for carrying out Import substitution under Make in India Initiative & outstanding supply performance to BHEL, for RIP bushing.



**Switch Global Award** for Excellence – 2016.



Felicitated at BHEL Samvaad 3.0 for **indigenous development of RIP Bushings up to 245 kV** as a part of Atmanirbhar Bharat Mission.



Federation of Gujarat Industries Certificate of **Merit – Outstanding MSME 2015-16.**



Federation of Gujarat Industries Certificate of **Merit – Research in Science & Technology 2014-15.**

and many more...



100

 <p>सूचना/TEL : 26562816, 26562373 (EPRAIO) : 26565694, 26562133 26565687, 26562144 26562134, 26562122 फैक्स/FAX : 26565626, 265629748 Website : <a href="http://www.dstir.gov.in">http://www.dstir.gov.in</a> (आपका पता 9021-2086 इण्डिया विमान) (AN 800 900 2086 CONTACT TO NEW DELHI 110016)</p>	 <p>भारत सरकार विज्ञान और प्रौद्योगिकी मंत्रालय वैज्ञानिक और औद्योगिक अनुसंधान विभाग टेक्नोपार्क रोड, नया महरौली रोड, नई दिल्ली - 110016 GOVERNMENT OF INDIA MINISTRY OF SCIENCE AND TECHNOLOGY Department of Scientific and Industrial Research Technology Bhawan, New Mehrauli Road, New Delhi - 110016</p>
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F.No. TUIV-RD/4946/2023 Date: 21<sup>st</sup> December, 2023

To  
M/s Yash Highvoltage Ltd.  
213 Param Park, BH, Taksh  
Bungalows, Vasna Road,  
Vadodara -390 007  
Gujarat

Subject: RECOGNITION OF YOUR IN-HOUSE R&D UNIT(s)

Dear Sir,

This has reference to your application for recognition of your in-house R&D unit(s) by the Department of Scientific and Industrial Research.

2. This is to inform you that it has been decided to accord recognition to the in-house R&D unit(s) of your firm at 84/1B, P.O. Khakharia, Savli, Vadodara, Gujarat from 20.11.2023 to 31.03.2026. Terms and conditions pertaining to this recognition are given overleaf.

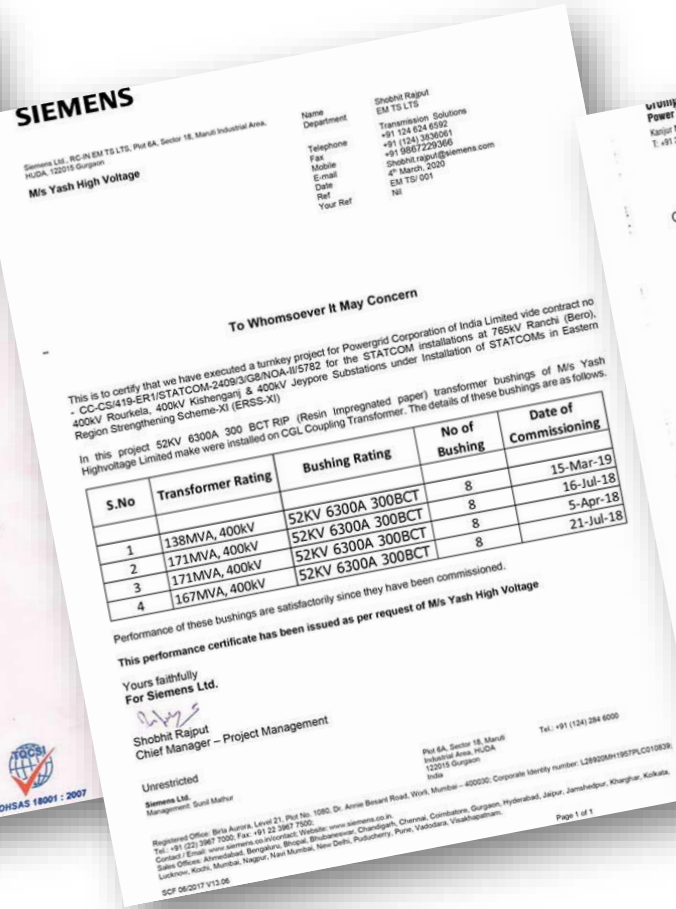
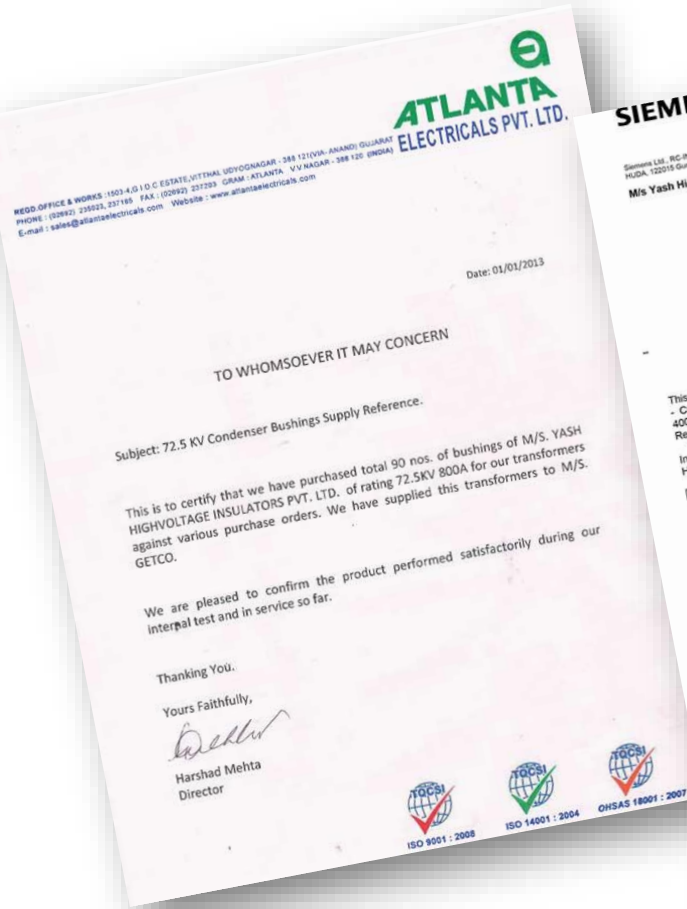
3. Kindly acknowledge the receipt of this letter.

Yours faithfully,  
  
(Dr. P. K. Dutta)  
Scientist - 'G'

Our inhouse Research and Development unit has been accorded prestigious recognition as a Scientific and Industrial Research Organization (SIRO) by the Central Government through the Department of Scientific and Industrial Research (DSIR).

This recognition underscores our commitment to advancing innovation and excellence in our industry. We look forward to leveraging this esteemed support from DSIR, Ministry of Science & Technology, to drive forward-thinking research initiatives that will benefit our customers and stakeholders alike.

# Our Testimonials





# Global Reach of Yash



Transformer Magazine – Apr'24



T&D India – Oct'23



IEEMA – Aug'23



EPR Magazine – Dec'23





# | Yash Highvoltage's Manufacturing Facility





# DREAM 2027

**YASH**  
HIGH VOLTAGE





# Thank You



<https://yashhv.com/>



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[/company/yashhv](https://www.linkedin.com/company/yashhv)



[@yashhighvoltage](https://www.youtube.com/@yashhighvoltage)