



RHINE JAYBEE POWER PVT. LTD.

A RHINE DIGITAL AND JAYBEE INDUSTRIES JOINT VENTURE





ABOUT US

With a strong foundation and value system, **Rhine Jaybee Power Pvt. Ltd.** provides high-quality & reliable solutions through our portfolio of products including Transformers, Compact Sub Stations, Servo Voltage Stabilizers, and other electrical products.

Manufacturing operations are held in our **state-of-the-art unit** in **Panchkula**, Haryana.

VISION

To be the market leader in the Power Distribution Sector while being sustainable and innovative

MISSION

To be your trusted engineering partner with our reliable, cost-effective, and high-quality integrated product ecosystems

OUR CORE VALUES – I3Q

Integrity We always focus on creating a strong client-relationship through trust & honesty

Innovate We adapt to the fast-paced environment and innovate ahead of time

Inspire At every step, we act as leaders and aim to inspire everyone we collaborate with

Quality We take pride in delivering high quality solutions with our best-in-class offerings

**100+
Employees**

**More than 25 years
of Experience**

**Executed
1000+ Projects**

**Trusted by
500+ Clients**

MANUFACTURING AND INFRASTRUCTURE

Rhine Jaybee Power Pvt Ltd. is setting new benchmarks in quality and innovation. Our **state-of-the-art manufacturing unit** is fully equipped with the latest machinery and backed by a proficient team of well-experienced engineers developing processes that produce best-in-class quality, leaving no room for inefficiencies & non-conformances.

Annual Capacity

TF → 2,500 + MVA

CSS → 400 + Units



OUR EQUIPMENT AND FACILITY INCLUDE

SHEET METAL
STATION

PAINT SHOP

CORE ASSEMBLY
TESTING

HT & LT WINDING
MACHINES

HEATING
CHAMBERS



IN-HOUSE NABL
CERTIFIED LAB



NABL ACCREDITED LAB

With an in-house NABL-accredited laboratory in accordance with ISO/IEC 17025:2017 standards, Rhine Jaybee Power sets itself apart as a vendor that focuses on providing reliable and high-quality products while maintaining a robust quality management system.




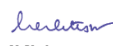
  National Accreditation Board for Testing and Calibration Laboratories
NABL
CERTIFICATE OF ACCREDITATION

JAY BEE TRANSFORMER TESTING LABORATORY
has been assessed and accredited in accordance with the standard
ISO/IEC 17025:2017
"General Requirements for the Competence of Testing & Calibration Laboratories"
for its facilities at
KHASRA NO. 13/S, VILLAGE BATWAL, PANCHKULA, HARYANA, INDIA
in the field of
TESTING

Certificate Number: TC-11082
Issue Date: 21/10/2022 Valid Until: 20/10/2024

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

Name of Legal Identity : Jay bee Industries
Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



PRODUCT RANGE WITH OVERVIEW + KEY NUMBERS

Distribution Transformer – Oil Type

Up to 2,500 kVA with a voltage class up to 33 kV

01

02

Distribution Transformer – Dry Type

Up to 2,500 kVA with a voltage class up to 33 kV in VPI & CRT Type

Power Transformer – Oil Type

Up to 20 MVA with a voltage class up to 66 kV

03

04

IDT (Inverter Duty Transformer)

Up to 18.5 MVA for Solar & Wind Energy application

Compact Sub-Station (CSS)

One of our expertise lies in manufacturing CSS units for all medium voltage requirements from 11kV to 36kV.

05

06

E-Houses

We offer a complete **one stop solution** to execute E-House projects from concept to commissioning.

Servo Voltage Stabilizers

Up to 5,000 kVA in Linear Roller Technology

07

08

OLTC

Up to 5,000 kVA with voltage class up to 33 kV

Distribution Transformer – Oil Type



We are pioneers in manufacturing Oil-type Distribution Transformers up to 2,500 kVA with a voltage class up to 33 kV.

Frequency	50 Hz
Phase	Single & Three Phase
Vector Group	Dyn. 11 or as per Customer Needs
Winding Material	Copper / Aluminium
Cooling	ONAN
Tapping Range	As per the Customer Need
Class of Insulation	A
Losses & Accessories	As per IS:1180 (latest amendment)

Distribution Transformer – Dry Type



We manufacture Dry-Type Transformers with a voltage class up to 33 kV
Our Dry type transformers are in the range of 100 kVA to 2,500 kVA in VPI & CRT Type

Frequency	50 Hz
Phase	Single & Three Phase
Vector Group	Dyn. 11 or as per Customer Needs
Winding Material	Copper / Aluminium
Cooling	ANAN
Tapping Range	As per the Customer Need
Class of Insulation	F / H
Losses & Accessories	As per IS:11171 / ECBC norms

Power Transformers – Oil Type



Our core competency includes manufacturing Power Transformers up to 20 MVA with a voltage class up to 66 kV

Frequency	50 Hz
Phase	Single & Three Phase
Vector Group	Dyn. 11 or as per Customer Needs
Winding Material	Copper / Aluminium
Cooling	ONAN
Tapping Range	As per the Customer Need
Class of Insulation	A
Losses & Accessories	As per IS:1180 (latest amendment)

IDT (Inverter Duty Transformer)



Inverter Duty Transformers are used to convert direct current to alternate current. They are used to get desired voltage levels when the output voltage is low but the desired voltage is high.

Our range of **IDT varies from 100 KVA to 18.5 MVA**, the precise requirements vary from device to device and from site to site. We offer Inverter Duty Transformers in ONAN and ONAF cooling.

We specifically design inverter duty transformer for Wind and Solar Energy applications and provide them with multiple windings on the primary/secondary side of the transformer, which enhances their performance by enabling them to connect multiple inverters to the grid. We also provide Earth Shield between the HV and LV windings whose purpose is to reduce harmonic and path to ground residual resonance. Special multiple windings design on primary side of the transformer enables to connect multiple inverters to the grid with minor number of transformers in total.

Special foil winding machines are used to make the primary and secondary coils of the transformer, as the current in low voltage side if the transformer is high, foil winding machines help to reduce the number of conductors the time of coil winding. Tap Leads are designed across the axial length of the winding so that during short circuit the forces will be distributed equally across the winding. Taps are used to adjust the turn's ratio to compensate for the variance in supply, thus increasing the transformer's accuracy to match the specified output.

Compact Sub-Stations (CSS)



One of our expertise lies in manufacturing CSS units for all medium voltage requirements from 11kV to 36 kV.

Our CSS has:

A fully type-tested protective enclosure with a protective degree up to IP54 (suitable for outdoor installation); facilitated by our In-house sheet metal manufacturing set-up

2 mm thick GI steel sheet enclosure mounted on a hot-dip galvanized base channel

Other Features:

- Customisable
- Compatible Design (with IEC 62271-202 & SCADA)
- Easy to install
- Ready for Network (SF6 insulated RMU for MV networking)
- Independent Access for all compartments
- Rust-proof enclosure

Conventional Substations	Our Compact Substation Offers
✗ Procurement of individual substation equipment	✓ Fully factory-built solution
✗ Interconnection at factory	✓ Interconnection at site Very Compact ~ Less Than 10 Sq. meters
✗ Space Required ~ Approximately 120 Sq. meters	✓ Lower Lifecycle cost → Huge Savings in Cost of Land, Building Construction & Maintenance
✗ Expensive on Total Cost of Ownership: Additional Cost of Cables, Land & Substation Room	✓ Touch Proof, Internal Arc Tested as per IEC 62271-202 and Completely Safe
✗ Safety hazards – Essential Barricading Required	✓ Faster Delivery, Installation & Commissioning
✗ More Lead Time for Completion	✓ Appealing Aesthetics

E-house

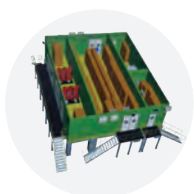


We offer a **complete one stop solution** to execute E-House projects from concept to commissioning.

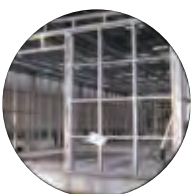
Our E-house provides a solution that is:

Cost Effective	Being pre-fabricated and pre-tested, our E-house provides a total savings of up to 20% in capital expenditure (CAPEX)
Time Efficient	Reduces overall lead time by up to 50%
Improves Safety	Foot-print optimization up to 25%
Space Saving	

Design & Integration Journey



Design



Manufacturing



Pre-Assembly



Electrical
Installation



Pre-
Commissioning
& Testing



Transport



Plug & Play

Servo Voltage Stabilizers



The **Servo Voltage Stabilizer (SVS)** is an extremely relevant component for units facing electricity breakdowns/ fluctuations

- We provides Linear type SVS, which prevents direct exposure and reduces possibility of breakdown, as even a minor fluctuation can cause severe damage to the entire system
- SVS protects appliances by maintaining a proper voltage supply output during the time of power fluctuation
- We have in-house CRGO cutting and Coil assembly station
- Capability to compensate wide range of voltage variations
- Tailor made as per voltage requirement of the customer
- Protections such has high/low cut, bypass, phase neutral, phase missing etc

We manufacture **30kVA - 5,000kVA** Servo Voltage Stabilizer with Linear Roller Technology

Frequency	50/60 Hz +/- 5%
Control Module	Microprocessor Based
Type	Balanced (Common Control for all three phases) Unbalanced (Individual Phase Control)
Output Voltage	400V ± 1% (Ph to Ph) / 230V ± 1% (Ph to N)
Input Voltage	350-450V, 340-460V, 330-470V, 320-480V, 300-500V
Optional Features	High/Low/Over-Load/Single Phase/Preventer/ Short Circuit/Surge Suppressor/Bypass as on Request

On Load Tap changer (OLTC)



An **On-Load Tap changing Transformer (OLTC)** consists of an open Load tap changer, which is also known as an on-circuit tap changer (OCTC). An OLTC is used in areas where there is an interruption in the power supply due to an unacceptable tap change. The ratio of the number of turns can be changed without breaking the circuit. Our OLTC consists of 33 taps, where one tap is the centre rated tap, 16 taps increase the ratio of the windings, and the remaining 16 taps decrease the ratio of the winding.

11 kV On Load Tapchanger Technical Specification IEC-60214-1 and IS-8468

TYPE	11KVCCX16
Rated Voltage	11KV
Rated Current	200Amp
Rated Normal Current	200Amp
Rated Frequency	50Hz
No. of Phases	3
Maximum Rated through current	200Amp
Method of Drive	Motorized
Rated Insulation Level	34kV RMS 1 Min/110 kVp 1.2/50 μ S
No. of steps	16
No. Tap Position	17
Rated step Voltage	300V
Maximum Rated step Voltage	300V
Transition Time (Contact-Make before break) (Time Interval)	8 to 12 mili second
Control circuit rated Supply	110V AC/DC

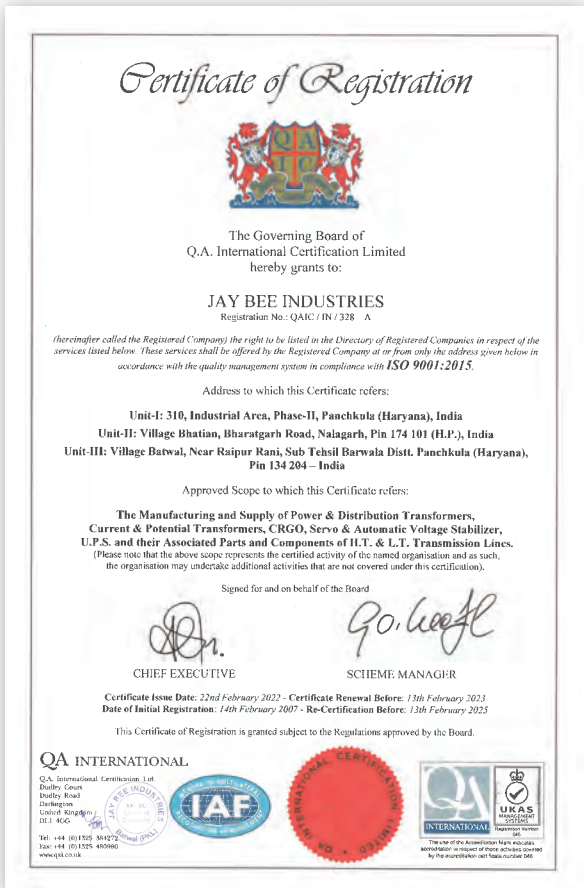
CERTIFICATIONS



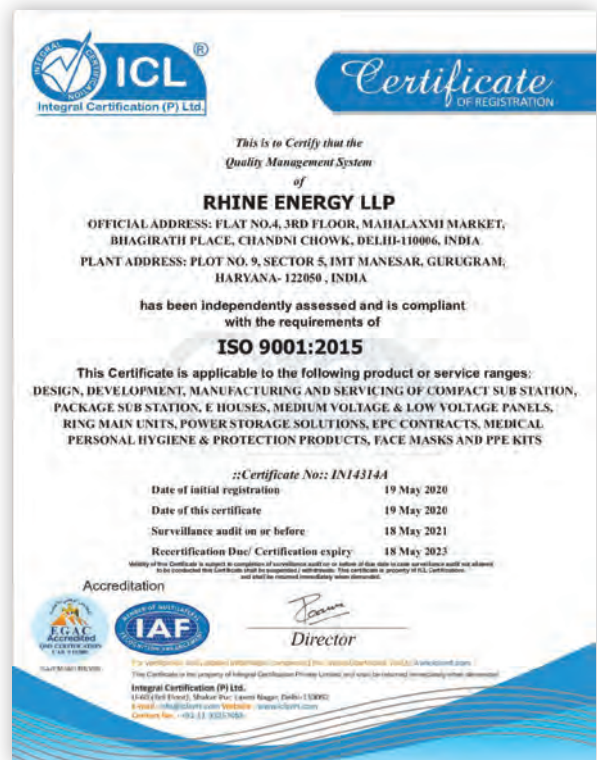
QRO: Occupational Health and Safety Management System



QRO: Environmental Management System



ISO 9001:2015 (FOR DOCUMENT CALLED "ISO RELPP" AS WELL AS "ISO VALID TILL 2023")





We take **utmost priority** toward the **health and safety** of our employees which enables us for high efficiencies and a strong team

All Company-specific procedures and requirements are designed to safeguard the safety & health conditions of all employees

Beginning 2023, as part of our Social Responsibility **for a greener and sustainable future** :



REFERENCES

Utilities & Approvals



Public Works Department
(Buildings and Roads) Punjab



Pune
Municipal
Corporation



Customer References





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