



# GLOBAL POWER SOLUTIONS





# TAFE POWER

On the occasion of its Diamond Jubilee year, TAFE launches a new indomitable product range for the international markets and presents with pride, another benchmark brand - TAFE POWER.

TAFE's 60-years rich legacy combined with its expertise in manufacturing diesel engines for the Indian subcontinent, drives this newly launched TAFE POWER brand of Diesel Generators and Engines to countries in Asia, Africa, Europe, Australia and the Americas. TAFE, through its subsidiary TAFE Motors and Tractors Limited (TMTL), has been one of the pioneers in manufacturing diesel engines in India. TMTL Engines has its origin in European engineering and technology, and are currently being used as a prime mover for various applications such as tractors, power generation, construction equipment, agriculture equipment, marine applications and various pumping applications including firefighting, dewatering pumps etc.

TAFE, through TMTL, has technical collaboration with global players such as Ricardo Consulting (UK), AVL (Austria), Sisu Diesel and Valtra (Finland). TAFE POWER Diesel Generators have low operational expenses, high fuel efficiency and offer value for money. The products adhere to prescribed safety norms and can be customized based on the application and requirement.





## WHY TAFE POWER?

- TAFE's manufacturing might and rich engineering expertise spanning over 60 years
- International product quality - Safe and highly customizable
- Strong base of over 1 Million satisfied users
- Deep understanding of Engines and Diesel Generators business
- Market leader in India, dominant player in the telecom industry
- Strong experience in building and managing global networks and alliances in over 100 countries
- Operating on principles of TQM, TPM, SGA, Kaizen to meet global standards of quality and productivity
- Best-in-class service and after-sales support

## HIGHLIGHTS

- International technology
- Low cost of ownership
- Long service interval
- Best-in-class service support
- Low cost of spare parts
- High fuel efficiency
- Rugged build quality
- Unmatched reliability
- Easy to maintain
- Customizable to requirement

## CUSTOM OPTIONS

- Special control panel options
- Super silent option ( $\leq 65$  db)
- Fuel tank size options
- Ready-to-use (RTU) diesel generator set
- Custom made options for telecom industry

# OUR LEGACY

TAFE - Tractors and Farm Equipment Limited, headquartered at Chennai, India, is an internationally reputed organization in the global agriculture machinery business, with an annual turnover in excess of US \$1.5 billion. The world's third largest tractor manufacturer by volumes and among the leading exporters of tractors from India, TAFE has been powering farms, hospitals, schools, infrastructure projects, small and large business organizations with its wide range of products and services.

A global tractor major, a multi-brand multi-business conglomerate, TAFE has diversified business interests through its subsidiaries into farm machinery, diesel engines and generators, agriculture engines, engineering plastics, gears and transmission components, batteries, hydraulic pumps and cylinders, vehicle franchise and plantations. Driven by a leadership with purpose and vision, TAFE has earned the trust of customers through its range of products that are widely acclaimed for their high quality and low cost of operation. A strong distribution network across the globe effectively backs TAFE's promise of industry-best service and support.

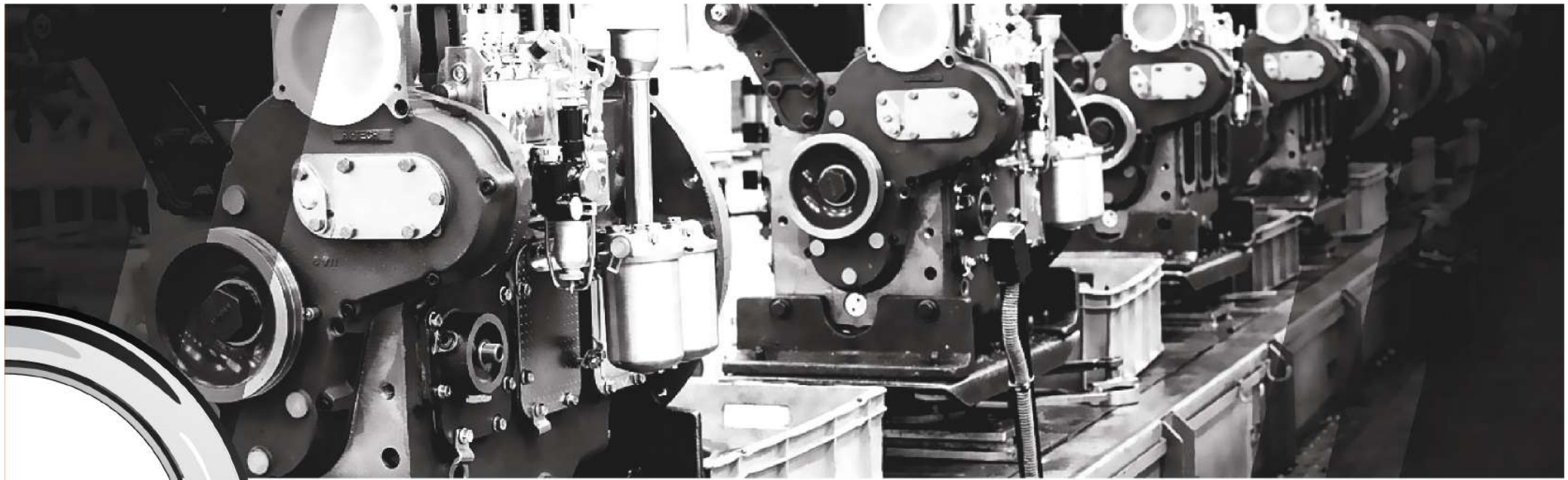
TAFE has been awarded the Engineering Export Promotion Council's (EEPC) Star Performer Award for outstanding contribution to Engineering Exports, Large Enterprise Category, for 21 consecutive years. TAFE is committed to the Total Quality Management (TQM). In the recent past, various manufacturing plants of TAFE have garnered numerous 'TPM Excellence Awards' from the Japan Institute of Plant Maintenance (JIPM), as well as a number of other regional awards for TPM excellence. TAFE became the first Indian tractor manufacturer to win the Frost & Sullivan Global Manufacturing Leadership Award in 2018, being recognized with the 'Enterprise Integration and Technology Leadership Award' and two 'Supply Chain Leadership Awards'. TAFE's plants are certified under ISO 9001 for efficient quality management systems, under ISO 14001 for environment friendly operations and ISO 45001 for occupational health and safety.

In the year 2005, TAFE acquired the legendary tractors, gears, transmissions and engines business from Eicher Motors Limited, which was widely popular for its original European Technology, to form TAFE Motors and Tractors Limited (TMTL), a wholly owned subsidiary of TAFE.

TMTL is a pioneer in manufacturing both air-cooled and liquid-cooled diesel engines in India, with a heritage of more than 60 years and manufactures specially designed engines for stationary and automotive applications. It has a strong presence in the retail, agriculture, telecom and industrial segments. Known for quality, technology and reliability, generators and engines from TMTL are eco-friendly with low emission levels, low carbon footprint and offer higher value for money.

TMTL has an existing base of over 1 Million highly satisfied customers. With over 700% volume growth in the last decade, it is one of the fastest growing engine manufacturing companies in India with a dominant market share in the telecom segment.

TMTL has won numerous awards in the recent years such as – The Most Admired Company of the Year (2021) by the World Leadership Congress and Awards, Outstanding Diesel Generators Brand of the Year (2019) by EPC World Media Group, India's Most Promising Brand (2017) by WCRC, Silver Award (2013) by Indus Towers for Excellence in Infra Equipment, etc. to name a few. With an emphasis to meet global standards of quality and productivity, TMTL employs quality management tools such as TQM, TPM, SGA and Kaizen extensively.



## DIESEL GENERATORS

Known for quality, technology and reliability, TAFE POWER Diesel Generators have low operational expenses, high fuel efficiency and offer superior value for money. They are safe, highly customizable and can be built based on the application and customer requirements. TMTL is one of the fastest growing businesses in the Indian industry, with a dominant market share in the telecom segment.

\*Product images and illustrations are for representation purposes only. Actual product colors and specifications may vary.



# TECHNICAL SPECIFICATION

	5 kVA	7.5 kVA	10 kVA	15 kVA	20 kVA	25 kVA	30-35 kVA	30 kVA	40-45 kVA	62.5 kVA	82.5 kVA	100 kVA	125 kVA
<b>Model</b>	TAF-P-5A	TAF-P-7.5A	TAF-P-10A	TAF-P-15A	TAF-P-20A	TAF-P-25A	TAF-P-30A / TAF-P-35A	TAF-P-30W	TAF-P-40W / TAF-P-45W	TAF-P-62.5W	TAF-P-82.5W	TAF-P-100W	TAF-P-125W
<b>Power</b>	5 kVA	7.5 kVA	10 kVA	15 kVA	20 kVA	25 kVA	30-35 kVA	30 kVA	40-45 kVA	62.5 kVA	82.5 kVA	100 kVA	125 kVA
<b>Duty</b>	Prime	Prime	Prime	Prime	Prime	Prime	Prime	Prime	Prime	Prime	Prime	Prime	Prime
<b>Control Panel</b>	Options Available for AMF / Manual Control	Options Available for AMF / Manual Control	Options Available for AMF / Manual Control	Options Available for AMF / Manual Control	Options Available for AMF / Manual Control	Options Available for AMF / Manual Control	Options Available for AMF / Manual Control	Options Available for AMF / Manual Control	Options Available for AMF / Manual Control	Options Available for AMF / Manual Control	Options Available for AMF / Manual Control	Options Available for AMF / Manual Control	Options Available for AMF / Manual Control
<b>Acoustic Insulation</b>	PU FR - Acoustic Foam	PU FR - Acoustic Foam	PU FR - Acoustic Foam	PU FR - Acoustic Foam	PU FR - Acoustic Foam	PU FR - Acoustic Foam	PU FR - Acoustic Foam	PU FR - Acoustic Foam	PU FR - Acoustic Foam	PU FR - Acoustic Foam	PU FR - Acoustic Foam	PU FR - Acoustic Foam	PU FR - Acoustic Foam
<b>Dimensions: Length</b>	1500 mm	1500 mm	1700 mm	1700 mm	1700 mm	2050 mm	2150 mm	2150 mm	2250 mm	2500 mm	3000 mm	3000 mm	3000 mm
<b>Breadth</b>	850 mm	850 mm	900 mm	900 mm	900 mm	900 mm	900 mm	950 mm	1000 mm	1100 mm	1300 mm	1300 mm	1300 mm
<b>Height</b>	1250 mm	1250 mm	1375 mm	1275 mm	1275 mm	1275 mm	1425 mm	1425 mm	1400 mm	1575 mm	1750 mm	1750 mm	1750 mm
<b>Fuel Tank Capacity</b>	50 L	50 L	65 L	80 L	80 L	100 L	100 L	80 L	100 L	125 L	250 L	250 L	250 L
<b>Weight</b>	650 kg	700 kg	925 kg	950 kg	950 kg	1050 kg	1200 / 1225 kg	1200 kg	1270 / 1330 kg	1470 kg	1980 kg	2000 kg	2050 kg
<b>ENGINE</b>													
<b>Engine Manufacturer</b>	TAFE Motors and Tractors Limited	TAFE Motors and Tractors Limited	TAFE Motors and Tractors Limited	TAFE Motors and Tractors Limited	TAFE Motors and Tractors Limited	TAFE Motors and Tractors Limited	TAFE Motors and Tractors Limited	TAFE Motors and Tractors Limited	TAFE Motors and Tractors Limited	TAFE Motors and Tractors Limited	TAFE Motors and Tractors Limited	TAFE Motors and Tractors Limited	TAFE Motors and Tractors Limited
<b>Engine Brand</b>	TAFE POWER	TAFE POWER	TAFE POWER	TAFE POWER	TAFE POWER	TAFE POWER	TAFE POWER	TAFE POWER	TAFE POWER	TAFE POWER	TAFE POWER	TAFE POWER	TAFE POWER
<b>Engine Model</b>	198 ES	198 ES	222 ES	322 ES	323 ES	422 ES	422 TC	461 ES	621 ES	881 ES	1121 ES	1401 ES	1753 ES
<b>Cylinders</b>	1	1	1	2	2	3	3	3	3	3	4	4	4
<b>Aspiration</b>	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Naturally Aspirated	Turbo Charged	Naturally Aspirated	Turbo Charged Inter-cooled	Turbo Charged Inter-cooled	Turbo Charged Inter-cooled	Turbo Charged Inter-cooled	Turbo Charged Inter-cooled
<b>Engine BHP (gross)</b>	11.5	11.5	18.7	25.1	25.7	35.5	48.2	38.1	59.1	82.3	102	128	160
<b>Displacement</b>	981 cc	981 cc	1557 cc	1963 cc	1963 cc	2945 cc	2945 cc	3298 cc	3298 cc	3298 cc	4910 cc	4910 cc	4910 cc
<b>Compression Ratio</b>	17.5:1	17.5:1	17.5:1	17:1	17:1	17:1	17:1	18.5:1	18.5:1	17:1	17:1	17:1	17:1
<b>Type/Class of Governing</b>	Mechanical / A1 (As per BS 5514)	Mechanical / A1 (As per BS 5514)	Mechanical / A1 (As per BS 5514)	Mechanical / A1 (As per BS 5514)	Mechanical / A1 (As per BS 5514)	Mechanical / A1 (As per BS 5514)	Mechanical / A1 (As per BS 5514)	Mechanical / A1 (As per BS 5514)	Mechanical / A1 (As per BS 5514)	Mechanical / A1 (As per BS 5514)	Mechanical / A1 (As per BS 5514)	Mechanical / A1 (As per BS 5514)	Mechanical / A1 (As per BS 5514)
<b>Bore x Stroke</b>	100 x 125 mm	100 x 125 mm	115 x 150 mm	100 x 125 mm	100 x 125 mm	100 x 125 mm	100 x 125 mm	100 x 120 mm	108 x 120 mm	108 x 120 mm	108 x 134 mm	108 x 134 mm	108 x 134 mm
<b>Type of Cooling</b>	Air Cooled	Air Cooled	Air Cooled	Air Cooled	Air Cooled	Air Cooled	Air Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled	Water Cooled
<b>Lub Oil Sump Capacity (With Filters)</b>	5	5	7.5	8	8	9.5	9.5	7.1	7.1	8	15	15	18
<b>Engine Electrical System</b>	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC
<b>ALTERNATOR</b>													
<b>Brand</b>	Stamford / Leroy Somer	Stamford / Leroy Somer	Stamford / Leroy Somer	Stamford / Leroy Somer	Stamford / Leroy Somer	Stamford / Leroy Somer	Stamford / Leroy Somer	Stamford / Leroy Somer	Stamford / Leroy Somer	Stamford / Leroy Somer	Stamford / Leroy Somer	Stamford / Leroy Somer	Stamford / Leroy Somer
<b>Phase</b>	1 Phase / 1 Phase	1 Phase / 3 Phase	1 Phase / 3 Phase	1 Phase / 3 Phase	1 Phase / 3 Phase	1 Phase / 3 Phase	1 Phase / 3 Phase	1 Phase / 3 Phase	1 Phase / 3 Phase	3 Phase	3 Phase	3 Phase	3 Phase
<b>Voltage</b>	220, 230, 240V AC / 380, 400, 415V AC	220, 230, 240V AC / 380, 400, 415V AC	220, 230, 240V AC / 380, 400, 415V AC	220, 230, 240V AC / 380, 400, 415V AC	220, 230, 240V AC / 380, 400, 415V AC	220, 230, 240V AC / 380, 400, 415V AC	220, 230, 240V AC / 380, 400, 415V AC	220, 230, 240V AC / 380, 400, 415V AC	220, 230, 240V AC / 380, 400, 415V AC	380, 400, 415V AC	380, 400, 415V AC	380, 400, 415V AC	380, 400, 415V AC
<b>Power Alternator Type</b>	Single Bearing, Brushless, Single / Three Phase, Insulation Class H	Single Bearing, Brushless, Single / Three Phase, Insulation Class H	Single Bearing, Brushless, Single / Three Phase, Insulation Class H	Single Bearing, Brushless, Single / Three Phase, Insulation Class H	Single Bearing, Brushless, Single / Three Phase, Insulation Class H	Single Bearing, Brushless, Single / Three Phase, Insulation Class H	Single Bearing, Brushless, Single / Three Phase, Insulation Class H	Single Bearing, Brushless, Single / Three Phase, Insulation Class H	Single Bearing, Brushless, Single / Three Phase, Insulation Class H	Single Bearing, Brushless, Single / Three Phase, Insulation Class H	Single Bearing, Brushless, Single / Three Phase, Insulation Class H	Single Bearing, Brushless, Single / Three Phase, Insulation Class H	Single Bearing, Brushless, Single / Three Phase, Insulation Class H
<b>Power Factor</b>	0.8 lag	0.8 lag	0.8 lag	0.8 lag	0.8 lag	0.8 lag	0.8 lag	0.8 lag	0.8 lag	0.8 lag	0.8 lag	0.8 lag	0.8 lag
<b>Rated Speed / Frequency</b>	1500 RPM, 50 Hz / 1800 RPM, 60 Hz	1500 RPM, 50 Hz / 1800 RPM, 60 Hz	1500 RPM, 50 Hz / 1800 RPM, 60 Hz	1500 RPM, 50 Hz / 1800 RPM, 60 Hz	1500 RPM, 50 Hz / 1800 RPM, 60 Hz	1500 RPM, 50 Hz / 1800 RPM, 60 Hz	1500 RPM, 50 Hz / 1800 RPM, 60 Hz	1500 RPM, 50 Hz / 1800 RPM, 60 Hz	1500 RPM, 50 Hz / 1800 RPM, 60 Hz	1500 RPM, 50 Hz / 1800 RPM, 60 Hz	1500 RPM, 50 Hz / 1800 RPM, 60 Hz	1500 RPM, 50 Hz / 1800 RPM, 60 Hz	1500 RPM, 50 Hz / 1800 RPM, 60 Hz

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# FEATURES & BENEFITS

## ENGINE

Cutting edge technology	Best-in-class fuel efficiency Low maintenance Longer oil change period Longer overhauling period Highly economical
A1 governing	Quality of power No power fluctuation
High moment of inertia and torque	Best-in-class block loading capability Better performance at varying load
Individual blowers (Air-cooled range)	Even cooling of all cylinders Better efficiency
Turbocharger with intercooler	Better engine efficiency
Most reliable engines	Prime power rating available across range Most powerful engines in their class

## ACOUSTIC ENCLOSURE

Fully automated powder coating process	Longer life All-weather-proof canopy
High density PU FR Foam Durable and efficient AVM pads	Thickest in its class Low noise and vibration level Super silent options available
Silencer inside the canopy	Better aesthetics Longer life of silencer
Compact size	Smaller footprint Suitable for rooftop installation
Large doors on both sides Drain provided for lube oil and fuel tank	Ease of maintenance
Unitary front and back panel Canopy with internal bolting Die cast Hinges with Studs Black Powder coated Slam Locks arrangement Provision for battery lock arrangement	Higher degree of safety Pilferage proof product Strong and sturdy
Central lifting arrangement Forklift pockets	Ease of logistics and handling