



Authorised Assembler

Eicher Powered
Gensets



VE COMMERCIAL VEHICLES
A VOLVO GROUP AND EICHER MOTORS JOINT VENTURE

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We.The Brand >>

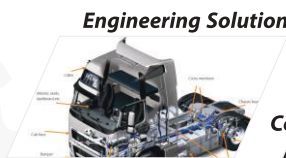
VE Commercial Vehicles Limited (VECV) is a joint venture between the Volvo Group and Eicher Motors Limited. It is a partnership that brings together Global leadership in technology, quality, safety and environmental care, along with the deep knowledge and understanding of the Indian market.

“A culmination of volvo group’s global process and world class technology and Eicher’s frugal engineering and deep knowledge of developing markets.

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Genset



Engineering Solution



Engineering Components



Engine



Bus Body & Application Manufacturing



Buses & Trucks



Manufacturing Competence

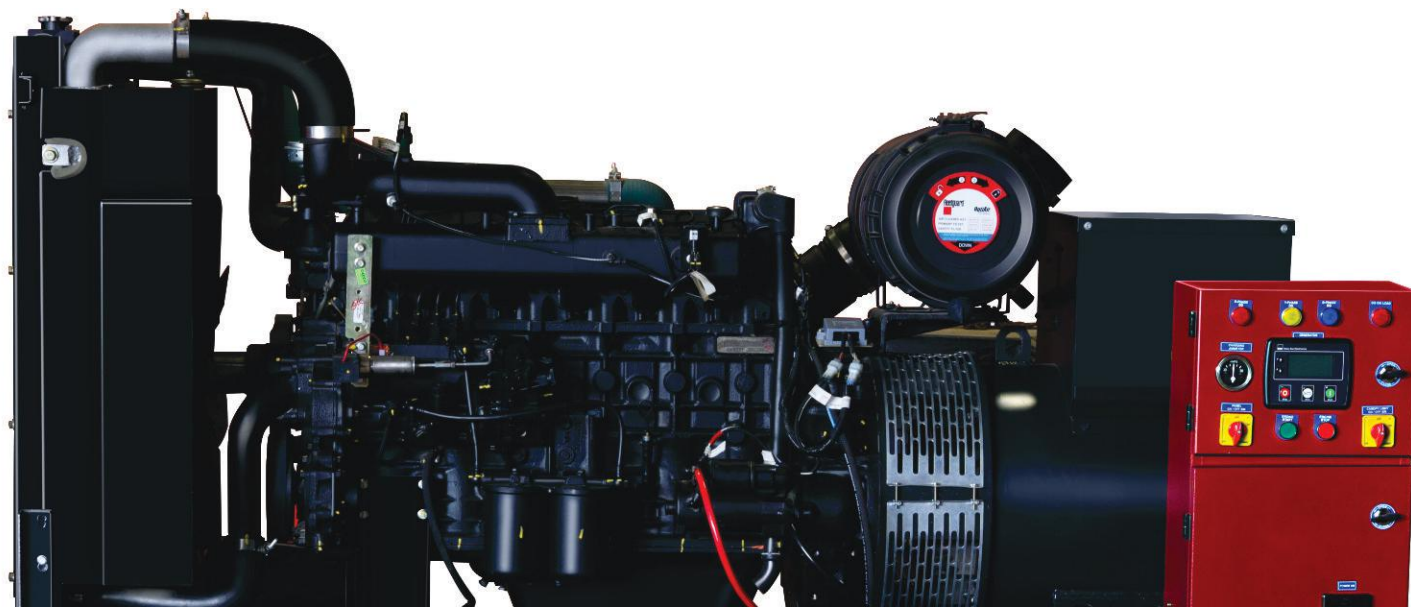
The industrial town of Pithampur, near Indore (Madhya Pradesh), is the manufacturing facility of EICHER TRUCKS AND BUSES. In 1986, it was the first commercial vehicle manufacturing plant to be set up in Central India. Spread over just 83 acres (340,000 sq. m.). It houses all that is required to design, test, produce and service Diesel Engine and commercial vehicle. The facility has been well equipped with product designing and Research & Development Centres.

The state-of-the art plant in Pithampur has access to top line manufacturing process, which includes weld shop with robotic arm, CED paint shop, integrated test facilities, 100% hot test facility of Engines and lean & scalable manufacturing set up. Plant has high degree of automation and Poke-Yoke for ensuring consistent quality Engines. The setup has passed the most stringent global quality norms of Volvo Group and is now equipped to produce highest quality engines. VE Commercial Vehicles Ltd also exports engines to many countries including European Nations, where the product is well established among other leading technology brands.

Quality Systems

VECV's Quality system are designed with the concept of "Build Quality in process" & ensured to infuse in the culture, in this "Eicher way" constructive values are defined with customer centric approach and inculcated these values across the organisation with the aim, everyone at every movement think towards the customer. As a part of that journey, the organization had taken a step to enhance the quality through great initiative of CSI1 (Customer Satisfaction India No:1) in the year 2009. CSI1 conception is from UD trucks, Japan with concepts of Hoshin Kanri, i.e policy deployment in all processes of the organisation

In CSI1, goal is an end customer satisfaction, with a slogan "Quality everywhere", product, service and sales quality. Right from the design drawing board to the manufacturing processes and the service support, everything has been developed to provide higher performance based efficiency. Our design and manufacturing quality is ensured that all engines have maximum uptime, longer life cycle and best fuel efficiency thereby leading to greater productivity.



Diesel Generating Sets >>

Better Design. Better Aesthetic. Better Value

Diesel Genset Range: 30kVA to 160kVA

VE Commercial Vehicles Ltd design and manufactures EICHER brand automotive & non-automotive engines with modern technology which is already established and known for high reliability, consistent quality and high-fuel-efficiency. The Engines and Gensets are also exported to regions like Middle East, Africa & SAARC Nations.

Engine Key Benefits

Low Operating Cost:

- **Remarkable Fuel Economy with Unmatched Engine Protections:** EICHER is the most preferred engine in terms of fuel economy & it saves fuel in the range of 10%-15% over most of the other Engines.
- **Very Economical Parts Prices:** Low cost of maintenance
- **Longer Service Interval:** 500-700 Hours or 12 Months for Lub. Oil, Oil Filter & Fuel Filter.

High Reliability:

- **Robust Engine:** Used in toughest applications like Construction Equipment, Material Handling, Marine, Agro and Pumping.
- **In-Built Oil Cooler:** Suitable for Continuous Operation and Lower Lubricating Oil Consumption.
- **Piston Cooling Jet:** provide cooling to piston at high temperature. Lower Break Down & higher reliability
- **Bypass Filter:** Secondary Filtration system, provide filtration in case of chocking of primary filter.
- **Air filter Choke indication:** Provide safety indication for chocking of Air Filter.
- **Extremely Low Vibration:** Sculpted/Ribbed block for high rigidity which results to Lower vibration and Lower wear & tear.
- **Compact size:** Engine Ideal for roof top installation & helps saving land space.

Performance:

- Quick Starting & smooth running
- Excellent Block Loading Capacity
- Excellent & unmatched fuel Efficiency
- Longer Product Life Cycle

Service Efficiency

- **Easy Serviceability:** Superior Accessibility of all Service points.
- **Easy Spares Availability:** Availability of Spare Parts across the country.
- **Commonality of Spare Parts:** Most of Spare parts used are common across the range.
- **On Site Service Support:** Proven technology will ensure that product support is available close by, without waiting for a specialist. EICHER Branded diesel engine does not require any complex or specialised tools for maintenance.

Alternator: >>

- **Description :** Self-excited, Self-regulated Single bearing, Brushless & continuous duty
- **Voltage :** 415/230 Volts
- **Power Factor :** 0.8
- **Frequency :** 50 Hz
- **No. of Phase :** 3 phase/ 1 phase
- **Construction :** SPDP enclosure
- **Protection :** IP 21 / IP 23
- **Voltage Regulation :** $\pm 1\%$
- **Insulation Class :** H

Salient Features:

- Highest Efficiency in its class
- Compact Size
- Better Response Time and allows faster recovery of stabilized rated voltage
- Excellent Motor starting capability in the range of DG sets
- Ensure constant Voltage operation even at 5% reduced speed band



Microprocessor Controlled: Integrated Controller >>

A microprocessor based Controller is being provided to the generator with self -diagnostic & self-management system.

Salient Features:

- It measures, monitor, control & operate all the required electrical mechanical parameters.
- User friendly LCD display.
- Logs last 50 Fault codes helps operator/service personal for troubleshooting.
- Safeties with annunciation.
- Engine Safeties: High Water Temperature, Low Lub. Oil Pressure, Low Fuel Level, Air Filter Choke.
- Alternator Safeties: Under Voltage, Under Frequency, Over Frequency, Overloading.



Control Panel >>

- Standard Manual Panel/AMF Panel
- MS construction Control panel
- Suitable rating 3 Pole MCB/MCCB
- All critical parameters of Engine and Alternator are displayed on Micro-processor based controller.
- Indoor Type Mounting Inside Acoustic Enclosure (Standard Manual Control Panel)



Optional:

- Auto Mains Failure Panel
- Remote Start/Stop Panel
- GPS Based system for Remote monitoring and controlling

Acoustic Enclosure:>>

- Noise level less than 75 dB(A) at a distance of 1 Meter under free field condition
- Made up of high-quality CRCA sheet
- Modular construction and good Aesthetic
- Sturdy designed built for last and Suitable for Outdoor Installation
- Single Point Lifting Arrangement: Easy Handling and avoid installation damages
- 11 Tank Surface Treatment and Pure Polyester Powder Coating for better finish and long lasting Acoustic Enclosure's Colour
- Silencer with option of Bird protection
- Integrated Fuel Tank suitable for 12 Hours with Three way Fuel measurement.
- Easy Access to accessories with secure serviceability
- Ready To Use DG set
- Optional : Super Silent Acoustic Enclosure available on request up to 65 dBA.



After Sales Support >>



No matter where you are Eicher service is never too far away. Eicher has wide service network across the country with professionally trained team, ensuring your Diesel Genset in safe hands. Our range of services includes: 24X7 helpline assistance ensures minimum downtime.

Pre-installation Guidance & Commissioning

Our Expert team gives proper guidance to all customers for installation of Diesel Generator and its related work i.e Foundation requirements, ideal placement of Diesel Generator, Power Cabling sizes, Earthing Sizes and Exhaust pipe extension etc.

Emergency Call-out Services & Preventative Maintenance Agreements

Our 24X7 helpline assistance ensures minimum downtime and maximum uptime. Customer gets personalised attention from our trained service personnel.

Annual maintenance contract (AMC) / Comprehensive AMC / Operation and maintenance contract

Our Annual maintenance contract includes unlimited breakdown visits and scheduled routine check-ups. Consumable, breakdown spares and outside labour job will be chargeable.

Our Comprehensive Service Agreement includes unlimited breakdown calls, scheduled routine service and Consumable spares of limited number of Hours/Months.

Our O&M contract include the services of trained manpower stationed at site.

Customized Product Training/Updates to Clients **

We understand the value of combining theoretical learning with practical application. As such, our training courses Often incorporate hands-on sessions where delegates are given opportunity to apply, in practice, their newly acquired knowledge and skills. This training can take place on-site or at any of our facilities. It's a concept to involve our clients in understanding the product and enabling them to handle the situations effectively.

* Standard And Optional Features



Silencer with Bird Protection



Single Point Lifting Arrangement



Emergency Stop



Stainless Steel, Strong & Robust Lock



Good Service Accessibility



Good Quality Forming



Stainless Steel Nut & Bolts



Cable Entry



Genset Legs



AVM Pads for Radiator



EGR System



Vacuum Indicator



Inline Fuel Pump



Lub Oil Bye Pass Filter



Three Way Fuel Level Monitoring



High Quality AVM



Technical Specifications :

Genset Rating	KVA	30	40	50	62.5	75	82.5	100	125	140	160	
Power Factor	PF	0.8										
Genset Rating	kWe	24	32	40	50	60	66	80	100	112	128	
Engine Rated Power	BHP	38	52	65	80	105	105	128	156	201	201	
Engine Make		EICHER (VECV)										
Engine Model		EE483TCI	EE483TCI	EE483TCI	EE483TCI	EE683TCI	EE683TCI	EE694TCI	EE694TCI	EE694TCI	EE694TCI	
No. of Cylinders	No.	4	4	4	4	6	6	6	6	6	6	
Nature of Aspiration		TCI	TCI	TCI	TCI	TCI	TCI	TCI	TCI	TCI	TCI	
Displacement	Liters	3.3	3.3	3.3	3.3	4.9	4.9	5.7	5.7	5.7	5.7	
Compression Ratio		17:01	17:01	17:01	17:01	17:01	17:01	17.5:01	17.5:01	17.5:01	17.5:01	
Bore X Stroke	MM	100 x 105	100 x 105	100 x 105	100 x 105	100 x 105	100 x 105	100 X 120	100 X 120	100 X 120	100 X 120	
Electric System	Volt	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC	12 V DC	
Battery	AH	88	88	88	88	120	120	120	120	120	120	
Lube Oil Consumption*	% F. Cons	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Lube Oil System Capacity	Liters	11	11	11	11	14	14	23.8	23.8	23.8	23.8	
BSFC at 75% Load*	Gm/HP-Hr	159	139	149	149	157	157	156	156	155	155	
Service Interval	Hours/Months	500 Hours/12 Months						700 Hours/12 Hours				
Governing	Type	Mechanical			Mechanical/ Electronic						Electronic	
Fuel Tank Cap.	Ltrs	120	120	120	120	150	150	250	250	300	300	
Alternator Make (*)		LEROY SOMER/ MECCALTE/ STAMFORD										
Alternator Type		BRUSHLESS										
No. of Phase		3 Phase/1 Phase				3 Phase						
Type of Panel		STANDARD MANUAL PANEL (OPTIONAL AMFPANEL)										
Acoustic Enclosure Size*	(LxWxH) mm	2500 X 1050 X 1500		2800 X 1050 X 1500		3200 X 1250 X 1500		3750 X 1250 X 1500		3800 x 1400 x 1800		
Approx DG Set Weight*	Kgs	1150	1200	1400	1450	1700	1700	2150	2200	2350	2400	

* Conditions Apply
(*) Other makes of Alternator can be available on request
Power rating as per standard reference condition as per –BS 5514 / ISO 3046 / ISO 8528 & IS 10002 / ISO 3046
Generator set specifications are subject to change due to continuous product development without prior notice

Standard Scope Of Supply:

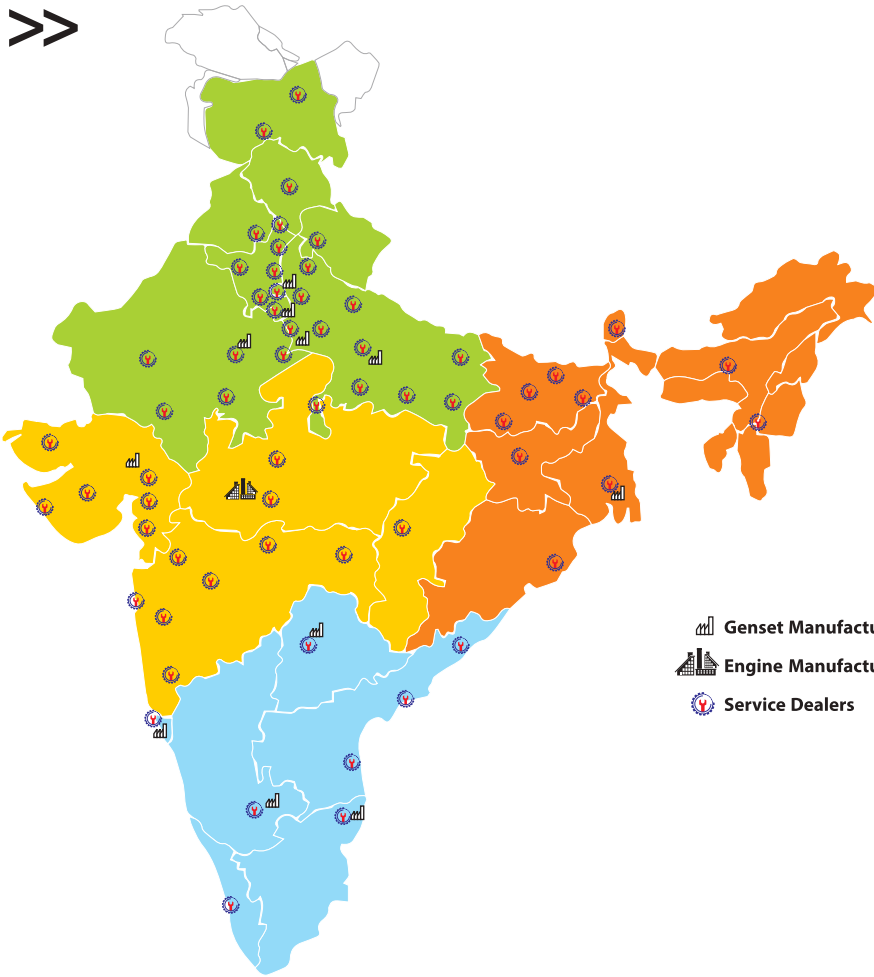
Lighting Inside the Acoustic Enclosure	Included
Fuel Tank & Fuel Piping	Inbuild (Removable Type with Lock & Key Arrangement)
First fill of Lube Oil & Coolant	Included
Power Cable	Included within Acoustic Enclosure (Between Alternator & DG Panel)
Silencer with Tail Pipe	Included
Fuel Level Gauge & Sensor	Included
Emergency Stop Button	Included

Exclusion/Optional

- Transportation & Transit Insurance
- Unloading & Shifting of DG Set at Site
- Civil Foundation at Site
- Power & Control Cabling outside Acoustic Enclosure
- Earthing of Equipment (DG Set & Panel) at Site
- Exhaust Pipe Extension
- Any kind of Statutory Approval

Warranty : Standard warranty shall be 24 Months from date of supply or 5000 running hours whichever is earlier for manufacturing defect of Equipment. However Proprietary parts would be covered as per respective manufacturer's standard warranty clause.
Optional Extended Warranty is available at extra cost.

Our reach >>



Genset Manufacturing
Engine Manufacturing
Service Dealers

Some of the Clients

