



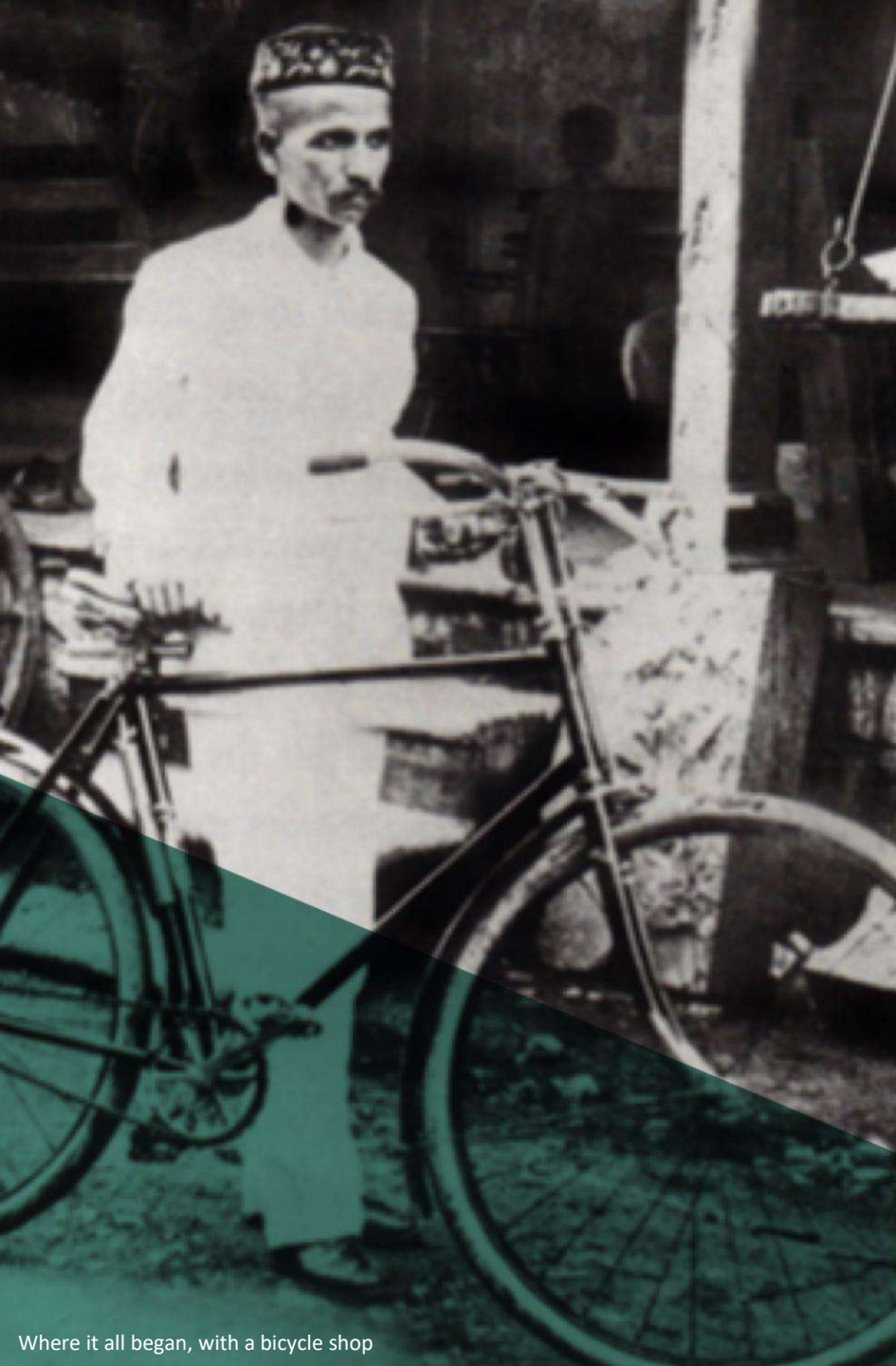
kirloskar
Oil Engines



limitless

A Kirloskar Group Company

Mark bearing word 'Kirloskar' in any form as a suffix or prefix is owned by Kirloskar Proprietary Ltd. and Kirloskar Oil Engines Ltd. is the Permitted User.



A LEGACY OF ENGINEERING A LIMITLESS FUTURE

In 1888, when others looked to the past, one man looked to the future. From a bicycle shop to India's first iron plough, he set in motion the nation's industrial revolution. Today, we are known as the leader of castings, diesel engine manufacturing, pneumatic packages and cooling solutions, forming the backbone of several industries. With many firsts to our name, we innovate solutions that challenge convention and create a limitless future.

We made India's first

CENTRIFUGAL PUMP

DIESEL ENGINE

LATHE



OUR BUSINESSES...



Kirloskar Oil Engines | Engines, Gensets, Farm mechanisation, Pumps



Kirloskar Ferrous & ISMT | Pig Iron, Iron Castings, DI Pipes, Steel



Kirloskar Pneumatic | Air, Refrigeration and Gas Compressores and Systems Gears



Kirloskar Chillers | Chillers, Pumps



Kirloskar Industries | Windmills, Real Estate



ARKA Fincap | Financial Services and Lending



OUR VALUES

OUR VALUES

EXCELLENCE
INTEGRITY
COLLABORATION
EMPATHY
VALUE CREATION
INNOVATIVE THINKING

VISION & MISSION

ARE THE VALUES THAT PROPEL OUR VISION WHERE

**WE POWER A CARING, PROSPEROUS
AND SUSTAINABLE FUTURE.**

THIS VISION PROPELS US ON A MISSION WHERE

**WE ENGINEER SOLUTIONS
TO ENABLE OUR CUSTOMERS
TO LIVE THEIR LIMITLESS POTENTIAL.**

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ABOUT

Kirloskar Oil Engines Limited

- ❖ India's # 1 Genset Brand
(Most number of Gensets Sold-Serviced-Running in India)
- ❖ Kirloskar has over 1 Million Gensets in service
across the globe
- ❖ Over 600,000 machines under care
- ❖ Over 200+ expert touch points across India
with 500+ solution oriented professionals
- ❖ More than 6000 trained service engineers
- ❖ Gensets range catered: 2 kW to 3000 kVA*
- ❖ Over 54K HHP Engines (>320kVA) in the field as of Jan 2024



Made in India



KAGAL, KOLHAPUR

- Kirloskar's Greenfield project started in 2006 in Kolhapur
- On Toyota Production System.
- End to end-Engine Machining, Assembly & Testing facility



KHADKI, PUNE

- Corporate Headquarters
- Kirloskar's R&D facility
- Engine testing & Emission Labs



NASHIK

- Large engines manufacturing site built over 10 acres of land
- High Horse Power Engine and Genset Manufacturing



OUR PRODUCT PORTFOLIO



POWER GENERATION

Genset Backup Solutions across a wide range of Power output from 2.8 kVA – 3000 kVA



INDUSTRIAL ENGINES

20 – 1750 HP in the Industrial Engine space globally



FARM MECHANISATION

Power Tillers, Power Weeder, Rotary Tiller, Allied Products



WATER SOLUTIONS

Diesel Engines, Electric Pumps, Engine Based Pumps, Allied Products

We offer products for every segment & take part in the India's growth story



Infrastructure



Industry



IT Sector



Hospitality



Healthcare



Real Estate



Government



Logistics

& many more...

POWER-GEN PRODUCT PORTFOLIO



Diesel

Ethanol

Methanol

Hydrogen

Natural Gas

Petrol

Fuel
Agnostic

kVA Range
Up to 3000kVA

Silent
Gensets

Low Switch-
over Time

Emission
Compliant

Low Total
Operational
Cost

The Kirloskar Advantage

- Prime Rating Gensets
- Complete HHP Range has HE Variant available
- Linear Fuel consumption curve
- Most Compact Gensets
- Made in India Products



M&S

2.8 kW – 5 kVA



LHP

7.5 – 250 kVA



MHP

320 – 750 kVA



HHP

750+ kVA

PROJECT SOLUTIONS

Complete Genset Application & Installation Solutions

KIRLOSKAR'S APPROCH SOLUTIONS



Load analysis for both Green field & Brown field projects



Complete Site Study & Site reports for Back up solutions



Complete electrical & mechanical System Designs



Genset Load Sizing



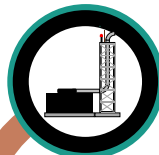
Site Study



Foundation



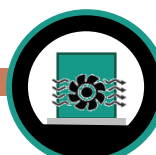
Power System



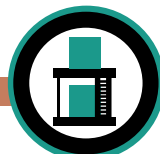
Exhaust



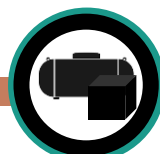
Power transfer



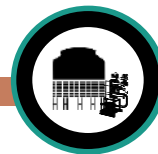
Ventilation



Structure



HSD System



Cooling Systems



Introduction to CPCB IV+

Kirloskar Innovation for CPCB IV+ norms !!

BHARAT STAGE VI			BHARAT STAGE IV
Cars & Light Trucks	2 & 3 Wheel Vehicles	Heavy-Duty Truck & Bus Engines	Non-road (Off-road) Diesel Engines

CPCB IV+

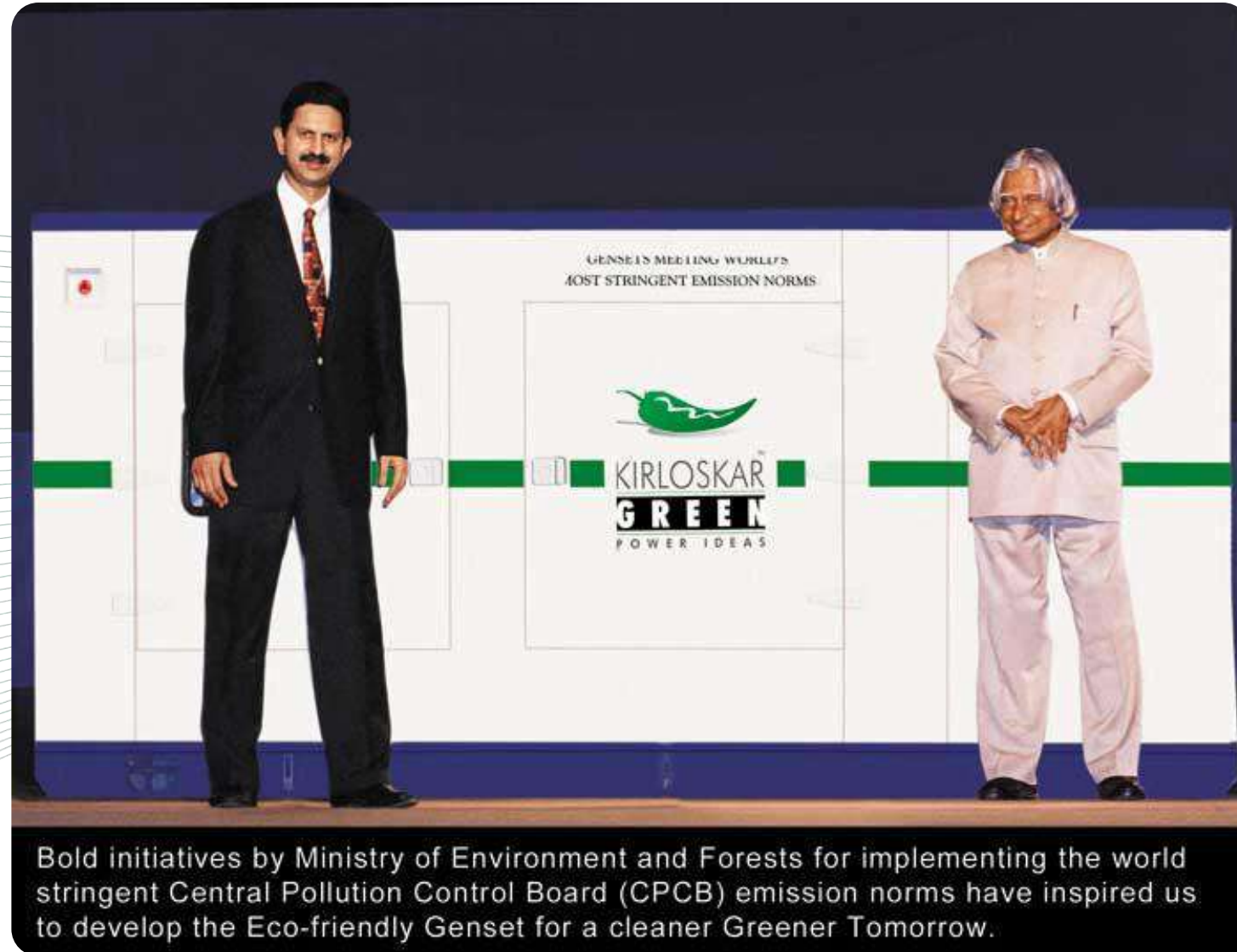
GENERATOR SETS
(>8kVA)

Effective from July 2024



GLORIOUS PAST...

India's First Silent and Emission Compliant Generating Set - KOEL



POWERFUL FUTURE...

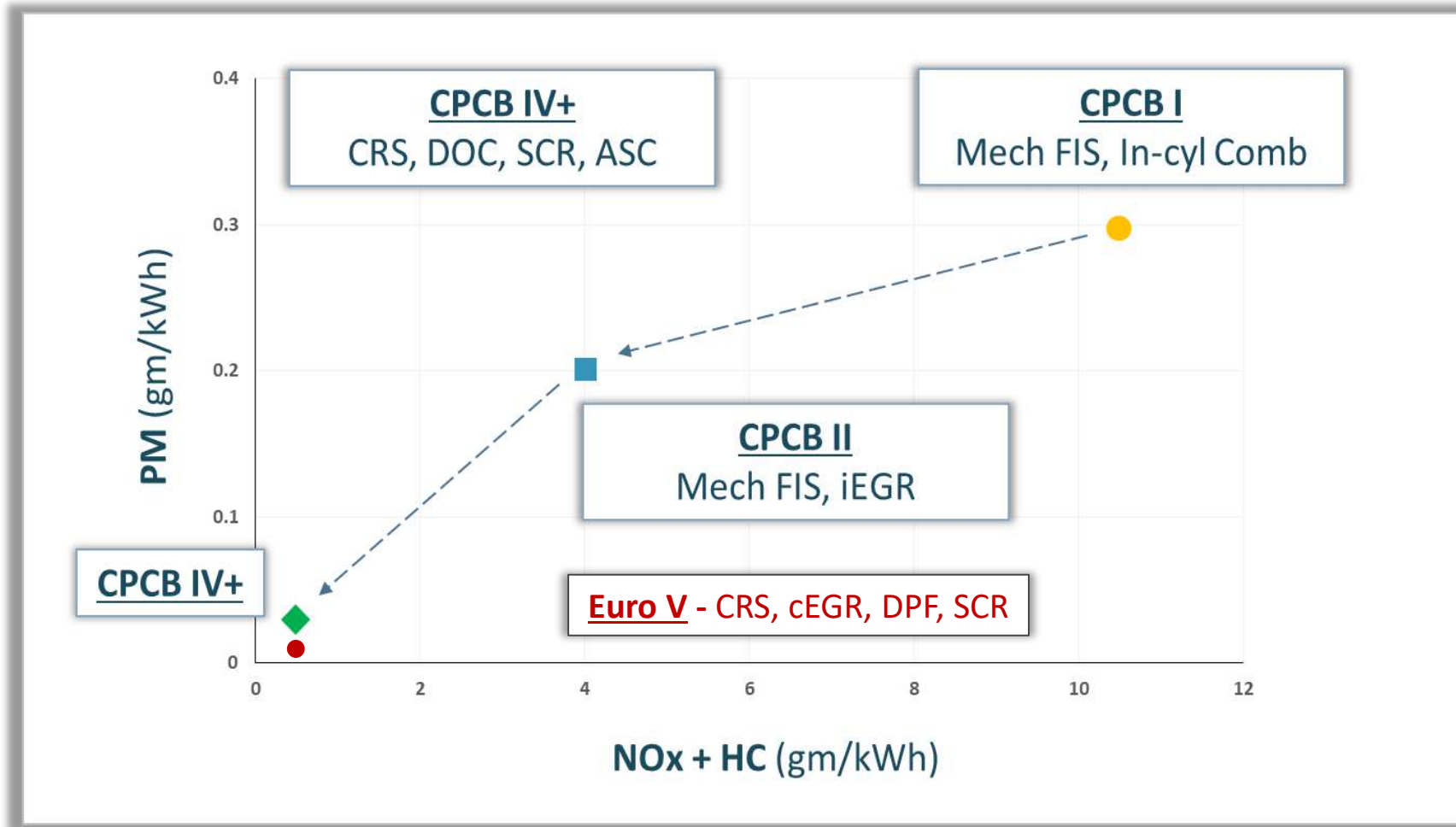
ARAI Compliance – CPCB IV+ Products



Type Approval Certificate issued to M/s. Kirloskar Oil Engines Limited for Noise Compliance of Diesel Generator Set with CPCB IV+ compliant engine

- **First Type Approval Certificate to M/S Kirloskar Oil Engine Limited from ARAI**
- **Noise Compliance of Diesel Generator Set with CPCB IV+ compliant engine**
- **Kirloskar team received this certificate from Director ARAI**

GLOBAL EMISSION NORMS

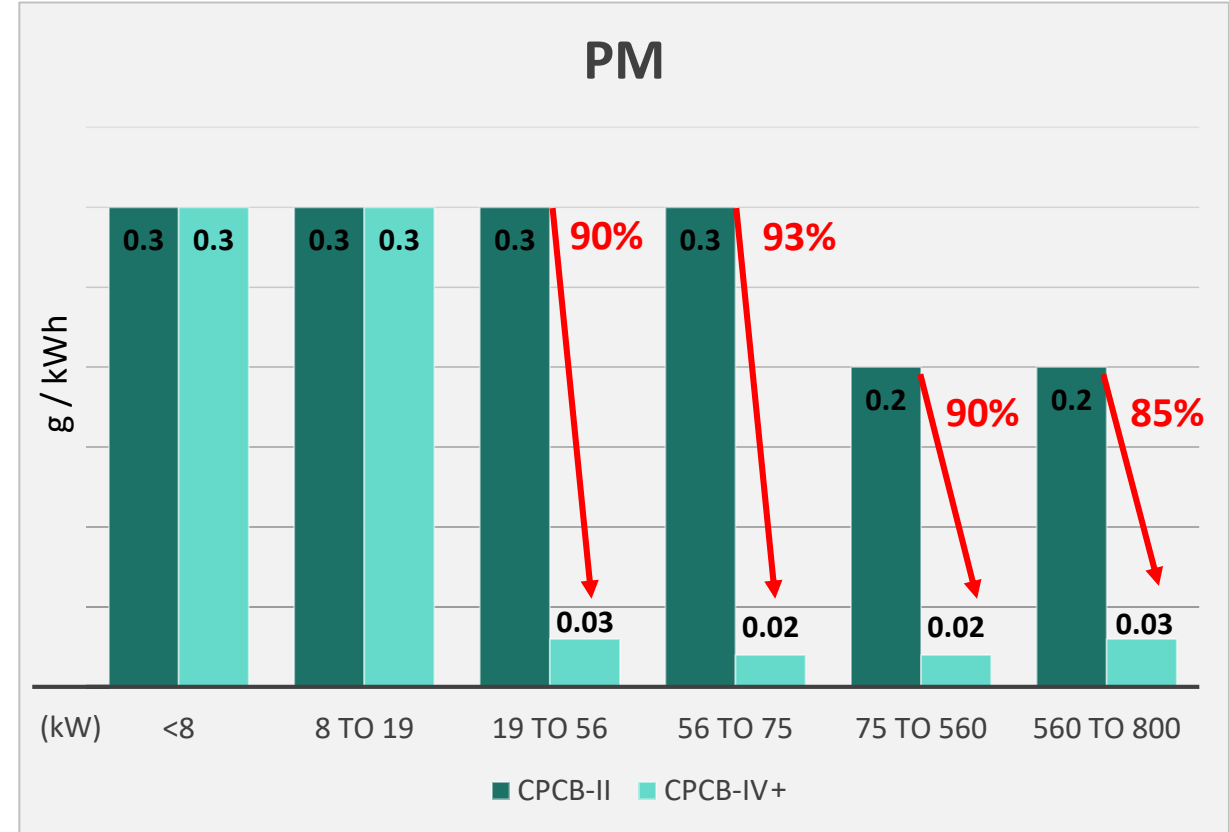
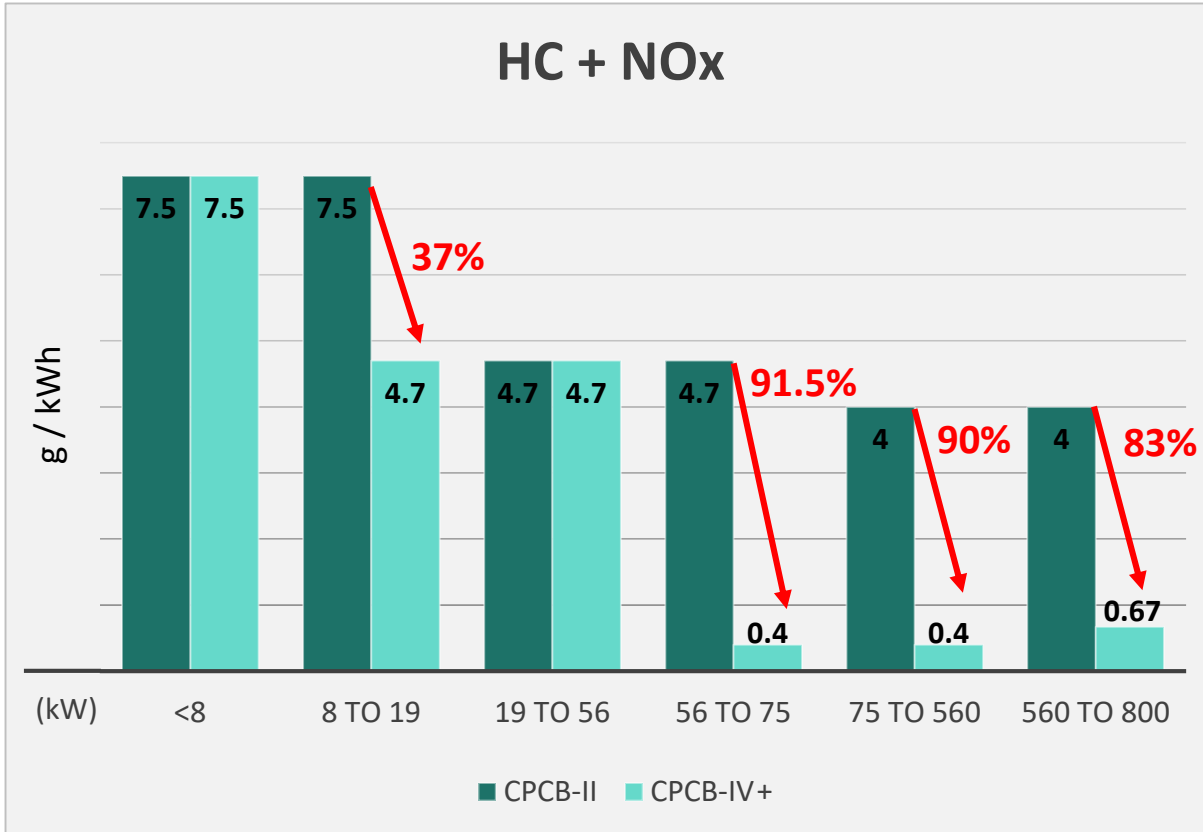


Indian Genset Emission norms comparison for kW rating between 130 – 560 kW

FIS = Fuel injection system, EGR = Exhaust gas recirculation,
DOC = Diesel oxidation catalyst, SCR = Selective catalytic reduction



CPCB II vs CPCB IV+



HC- Hydrocarbon
NOx- Oxide of Nitrogen
PM- Particulate matter

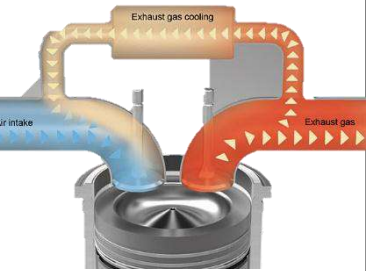
Significant reduction in HC+NOx and PM emissions



Technology for CPCB IV+



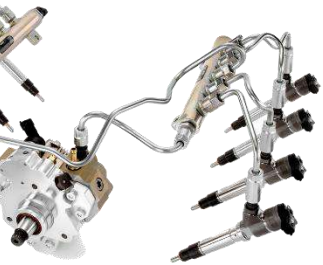
ENGINE



EGR
(Exhaust Gas Recirculation)

2 Valve to
4 Valve Mechanism

Advanced Electronic FIS
(Fuel Injection System)



EGT System (Exhaust Gas Treatment)

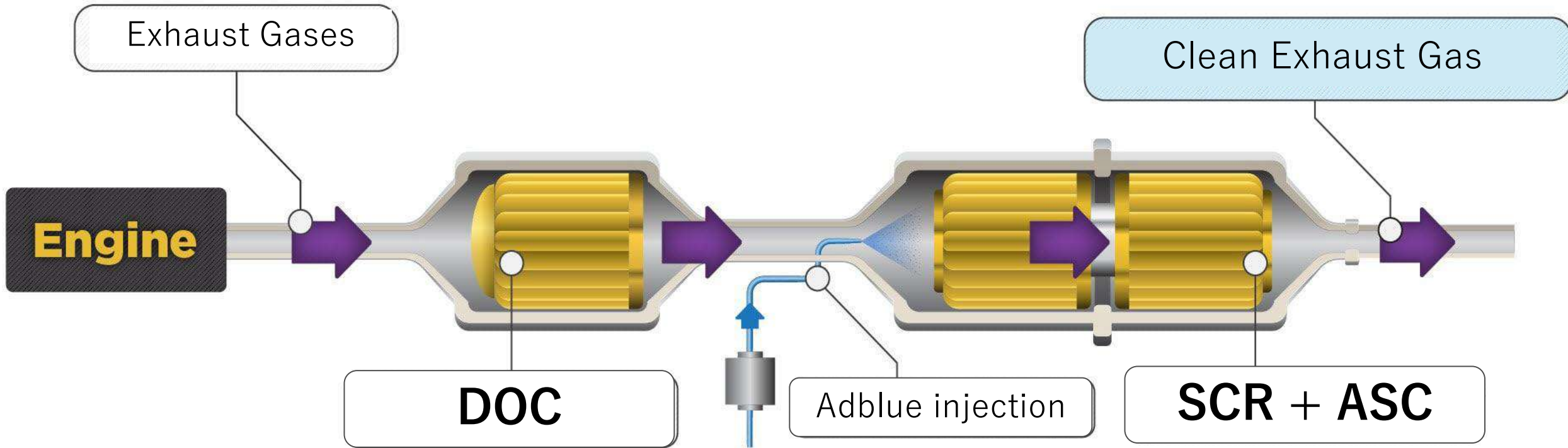
DOC
(Diesel Oxidation Catalyst)

SCR
(Selective Catalytic Reduction)

ASC
(Ammonia Slip Catalyst)



EGT SYSTEM – OVERVIEW



CPCB IV+ KEY BENEFITS

Reduced Overall
Footprints



Steps Towards
Green Technology

Better steady state
& transit performance –
Better clean power



On board Diagnostics –
Easy for Fault Finding

Higher Power
output from
Existing Engine



Improved Block
load capacity

Better Start-ability
& Low Smoke



Optimized Fuel
Consumption



Genset powered by electronically controlled Engine with more than 56kW power shall be equipped with KRM

Manufacture in conjunction with GOEM provides Remote monitoring system that is capable of working with application able to work with Computer / Mobile to provide essential information & warning to Genset owners / Operators

The CRDi system comes with advanced diagnostic capabilities, this coupled with KRM system provides real time monitoring of performance, emission and service critical parameters.

KIRLOSKAR REMOTE MONITORING

Digitalization



MOBILE APP



WEB



SMS



- MAINS ON/OFF
- ELECTRICAL DATA
- CRITICAL ALARMS
- BATTERY VOLTAGE
- OIL PRESSURE
- ENGINE SPEED
- ENGINE TEMP
- LOW FUEL

A nighttime photograph of a city skyline, likely New York City, with numerous skyscrapers illuminated and their lights reflecting on the water in the foreground. The sky is dark, and the overall scene is lit by the city lights.

karloskar
Oil Engines

Thank You

Better power for a
limitless tomorrow