

The Power to Move the Future

Driving innovation with every electric mile.

propel 



www.propelind.com



Transform the
landscapes fast
and sustainably.

PROPEL EV TRUCK

The 470 MEV and 470 HEV are India's first smart electric dump trucks — engineered for modern, sustainable operations. The 470 MEV is purpose-built for off-road performance, while the 470 HEV delivers versatility across both on-road and off-road applications. Combining powerful performance with low maintenance and a clean, comfortable ride, they redefine the future of hauling.

470 MEV

TECHNICAL SPECIFICATION - 470 MEV

configuration6X4	
Category	HEMM (Not for plying on-road)
Gross vehicle weight	45000 kg
Vehicle Dimensions (mm)	
Wheel Base	4300
Overall dimensions	8270 x 2800 x 3640
Turning circle diameter (m)	16.7
Minimum ground clearance	265
Front wheel track	2035
Rear wheel track	1930
Motor	
Motor type	Heavy duty PMSM
Max. power	350kW
Max. Torque	2000 Nm
Transmission	
Gearbox Type	7 Speed Direct Drive Clutch-less EMT
Front Axles	
Front Axle Type	9.5T front axle I beam - Reverse Eliot
Rear Axles	
Rear axle type	Hub reduction
Rear axle ratio	7.63
Differential lock	Inter wheel and Inter-axle differential lock
Chassis	
Chassis frame	Ladder type frame with full length flitch
Chassis dimension	300 x 80 x 8mm + 6mm flitch

Suspension	
Front	4 leaf Parabolic suspension with double acting shock absorbers and Anti-roll bar
Rear	Heady Duty 37T Bogie with Anti roll bar
Steering	
Steering Type	Hydraulic Assisted Power Steering
Steering Adjustment	Tilt & Telescopic
Brakes	
Brake System type	Dual line air brake system with ABS
System pressure	10 bar
safety feature	Hill start aid, Regenerative braking, Fail safe parking brake
Electricals	
LV Electrical system	150Ah; 12V x 2
Battery	
Battery Chemistry	Lithium ion
Battery capacity	171* / 256 kWh
Charger type	*GB/T / CCS2
Cabin	
Cabin Type	Fully suspended, Tilttable Sleeper Cabin
Driver Seat Type	Air suspended, 16 way adjustable seat with lumbar support
Ventilation	HVAC
Advanced Safety and Driver Assistance features	Central door locking system, Power windows, Music system + Optional : DGMS features.

Loadbody	
Volume	18 cu.m Rockbody (Tailgate optional)
Wheels And Tyres	
Tyre size	12x20 Mine lug - 20PR
Performance Data	
Max speed	40 kmph
Gradeability	>30%
Charging time (0-100%)	70 min
Application	
 Stone Quarry  Iron Ore  Marble & Granite	

The specifications and images shown are for reference only and are subject to change.



Performance that sets us apart



350kW Heavy duty PMSM -
Delivering 2000Nm torque



Best-in-Class carrying capacity
(23 & 33cu.m)



Heavy duty chassis and
suspension enables
off-road capabilities



Advanced Lithium ion batteries
for longer range & higher
productivity



Fully suspended cabin with ergonomic
cockpit enables drivers to operate
for longer hours without getting tired

470 HEV



ELEVATING COMFORT TO A NEW HIGH

The fully suspended Sleeper cabin and ergonomic cockpit with advanced safety features - facilitates the driver to be productive and safe

Superior power train for higher productivity



Clutch-less 7 speed EMT reduces driver fatigue at tough terrains



Ergonomic cockpit, advanced HMI and HVAC offers comfortable, Noise & dust free working space that feels like home



4 point suspended cabin and air suspended driver seat for utmost ride comfort.



Power steering for effortless manoeuvring.



Tilttable cabin for better service access



TECHNICAL SPECIFICATION - 470 HEV

Configuration		8X4
Category	CV (on-road)	HEMM (Not for plying on-road)
Gross vehicle weight	35000 kg 60000 kg	
Vehicle Dimensions (mm)		
Wheel Base (mm)	5900	
Overall dimensions	9875 x 2595 x 3700 9875 x 2800 x 3700	
Turning circle diameter (m)	22.3	
Minimum ground clearance	305	
Front wheel track	2040	
Rear wheel track	1940	
Motor		
Motor type	Heavy duty PMSM	
Max. power	350kW	
Max. Torque	2000 Nm	
Transmission		
Gearbox Type	7 Speed Direct Drive Clutch-less EMT	
Front Axles		
Front Axle Type	9.5T front axle I beam - Reverse Eliot	
Rear Axles		
Rear axle type	Hub reduction	
Rear axle ratio	7.63	
Differential lock	Inter wheel and Inter-axle differential lock	
Chassis		
Chassis frame	Ladder type frame with full length flitch	
Chassis dimension	300 x 80 x 8mm + 6mm flitch	

Suspension	
Front	5 leaf Parabolic suspension with double acting shock absorbers and Anti-roll bar
Rear	Heavy Duty 37T Bogie with Anti roll bar
Steering	
Steering Type	Hydraulic Assisted Power Steering
Steering Adjustment	Tilt & Telescopic
Brakes	
Brake System type	Dual line air brake system with ABS
System pressure	10 bar
Safety features	Hill start aid, Regenerative braking Fail safe parking brake
Electricals	
LV Electrical system	150Ah; 12V x 2
Battery	
Battery Chemistry	Lithium ion
Battery capacity	256 / 385 kWh
Charger type	CCS2
Cabin	
Cabin Type	Fully suspended, Tilttable Sleeper Cabin
Driver Seat	Air suspended, 16 way adjustable seat with lumbar support
Ventilation	HVAC
Advanced Safety and Driver Assistance features	Central door locking system, Power windows, Music system + Optional : DGMS features.

Loadbody	
Volume	23 cu.m Rockbody (Tailgate optional)
Wheels And Tyres	
Tyre size	12x24 Mine lug - 20PR
Performance Data	
Max speed	60 kmph 40 kmph
Gradeability	>30%
Charging time (0-100%)	70 min
Application	
Vehicle Category	CV (on-road)
	HEMM (Not for plying on-road)



Coal OB,
Iron-ore,
Limestone



Stone quarry,
Marble &
Granite



Construction
aggregates
(CV variant only)

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The Perfect Trio Carry More Climb Faster Move Safer

Transform mining productivity while cutting 70 tons of CO₂ emissions per truck annually. Embrace the future of electric mobility and take a bold step toward saving our planet



470 HEV

TECHNICAL SPECIFICATION - 470 HEV

Configuration	8x4
Category	HEMM (Not for plying on-road)
Gross vehicle weight	55000 kg
Vehicle Dimensions (mm)	
Wheel Base	6215
Overall dimensions	9985 x 2800 x 3750
Turning circle diameter (m)	23.7
Minimum ground clearance	305
Front wheel track	2040
Rear wheel track	1940
Motor	
Motor type	Heavy duty PMSM
Max. power	350kW
Max. Torque	2000 Nm
Transmission	
Gearbox Type	7 Speed Direct Drive Clutch-less EMT
Front Axles	
Front Axle Type	9.5T front axle I beam - Reverse Eliot
Rear Axles	
Rear axle type	Hub reduction
Rear axle ratio	7.63
Differential lock	Inter wheel and Inter-axle differential lock
Chassis	
Chassis frame	Ladder type frame with full length flitch
Chassis dimension	300 x 80 x 8mm + 6mm flitch

Suspension	
Front	5 leaf Parabolic suspension with double acting shock absorbers and Anti-roll bar
Rear	Heady Duty 37T Bogie with Anti roll bar
Steering	
Steering Type	Hydraulic Assisted Power Steering
Steering Adjustment	Tilt & Telescopic
Brakes	
Brake System type	Dual line air brake system with ABS
System pressure	10 bar
Safety feature	Hill start aid, Regenerative braking, Fail safe parking brake
Electricals	
LV Electrical system	150Ah; 12V x 2
Battery	
Battery Chemistry	Lithium ion
Battery capacity	256 / 385 kWh
Charger type	CCS2
Cabin	
Cabin Type	Fully suspended, Tilttable Sleeper Cabin
Driver Seat Type	Air suspended, 16 way adjustable seat with lumbar support
Ventilation	HVAC
Advanced Safety and Driver Assistance features	Central door locking system, Power windows, Music system + Optional : DGMS features.

Loadbody	
Volume	33 cu.m Boxtype Coal body
Wheels And Tyres	
Tyre size	12x24 Mine lug - 20PR
Performance Data	
Max speed	40 kmph
Gradeability	>30%
Charging time (0-100%)	70 min
Application	
 Coal Transportation	

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Revolutionize cargo:
Move Smarter and Cleaner



470 eTR

BUILT FOR COMFORT AND EFFICIENT HAULING

470eTR offers the comfortable and safe working space for drivers at all time and terrain.

Advanced Infotainment with touch screen HMI for real time updates on vehicle conditions



Fast charging lithium ion batteries improves vehicle uptime



Regenerative braking - increases range and brake efficiency.



High power Motor coupled with clutch-less EMT delivers best-in class operating efficiency



EBS, Stability and traction Control Brake Systems



Electronic Braking System brings in top notch safety through features like ESP, TCS and Hill-hold



TECHNICAL SPECIFICATION - 470 eTR

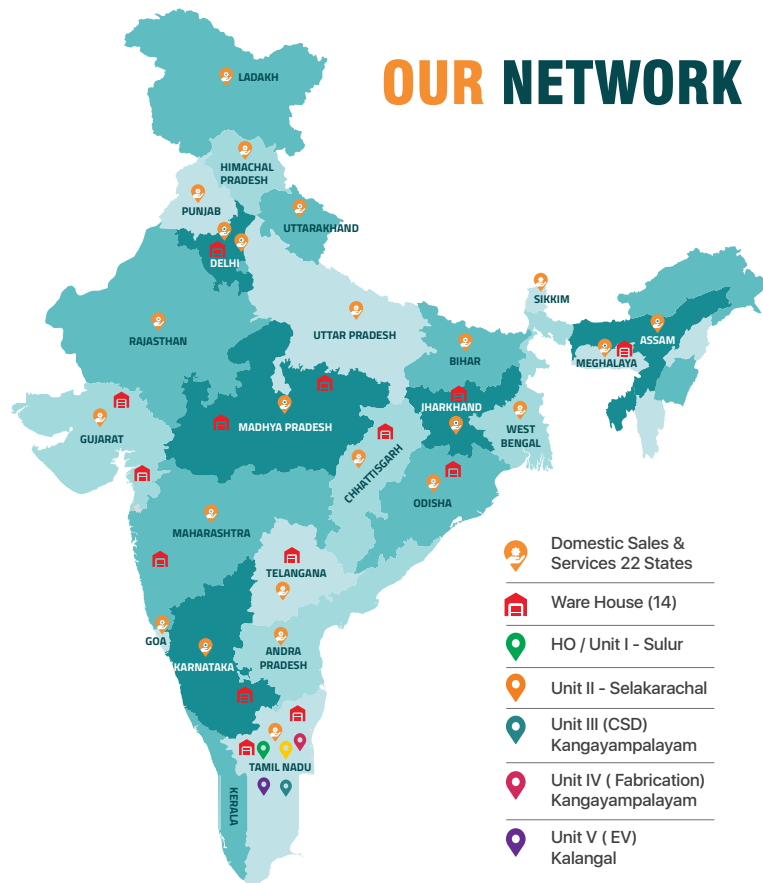
Configuration	4x2
Category	CV (on-road)
Gross Combination weight	55000kg (with suitable trailer)
Vehicle Dimensions (mm)	
Wheel Base	3850
Overall dimensions	6225 x 2600 x 3115
Turning circle diameter (m)	14m (tractor head)
Minimum ground clearance	290(HR) 200 (SR)
Front wheel track	2015
Rear wheel track	1860
Motor	
Motor type	Heavy duty PMSM
Max. power	350kW
Max. Torque	1600 Nm
Transmission	
Gearbox Type	7 Speed Direct Drive Clutch-less EMT
Front Axles	
Front Axle Type	7T Shallow drop front axle I beam - Reverse Eliot
Rear Axles	
Rear axle ratio	5.26 (HR) 4.62 (SR)
Differential lock	Inter wheel lock
Chassis	
Chassis frame	Ladder type frame with full length flitch
Chassis dimension	300 x 80 x 8mm + 6mm flitch

Suspension	
Front	4 leaf Parabolic suspension with double acting shock absorbers and Anti-roll bar
Rear	Hybrid Rear Spring (Parabolic - Helper & Semi-Elliptical - Main Spring)
Steering	
Steering Type	Hydraulic Assisted Power Steering
Steering Adjustment	Tilt & Telescopic
Brakes	
Brake System type	Dual line air brake system with ABS
System pressure	10 bar
Safety feature	Hill Holder, Electronic Brake System (EBS), Electro-Pneumatic Hand brake Fail safe parking brake, Traction Control System (TCS).
Electricals	
LV Electrical system	150Ah; 12V x 2
Battery	
Battery Chemistry	Lithium ion
Battery capacity	385 kWh
Charger type	CCS2
Cabin	
Cabin Type	Air suspended, 16 way adjustable seat with lumbar support
Driver Seat	Air suspended, 16 way adjustable seat with lumbar support
Ventilation	HVAC
Advanced Safety and Driver Assistance features	Advanced Touch screen infotainment & diagnostics system, Key less entry, Central door locking system, Power windows +Optional : TPMS

Fifth wheel coupling				
Kingpin dia	2" (3.5" optional)			
Wheels And Tyres				
Tyre size	295/80R22.5 Michelin Tubeless			
Performance Data				
Max speed	80 kmph			
Gradeability	24% (HR) 21% (SR)			
Charging time (0-100%)	70 min			
Application				
				
Tip-trailer	Bulker	Containers	Coal	Aggregates
				
Steel	Parcel	Cement	FMCG	E-commerce

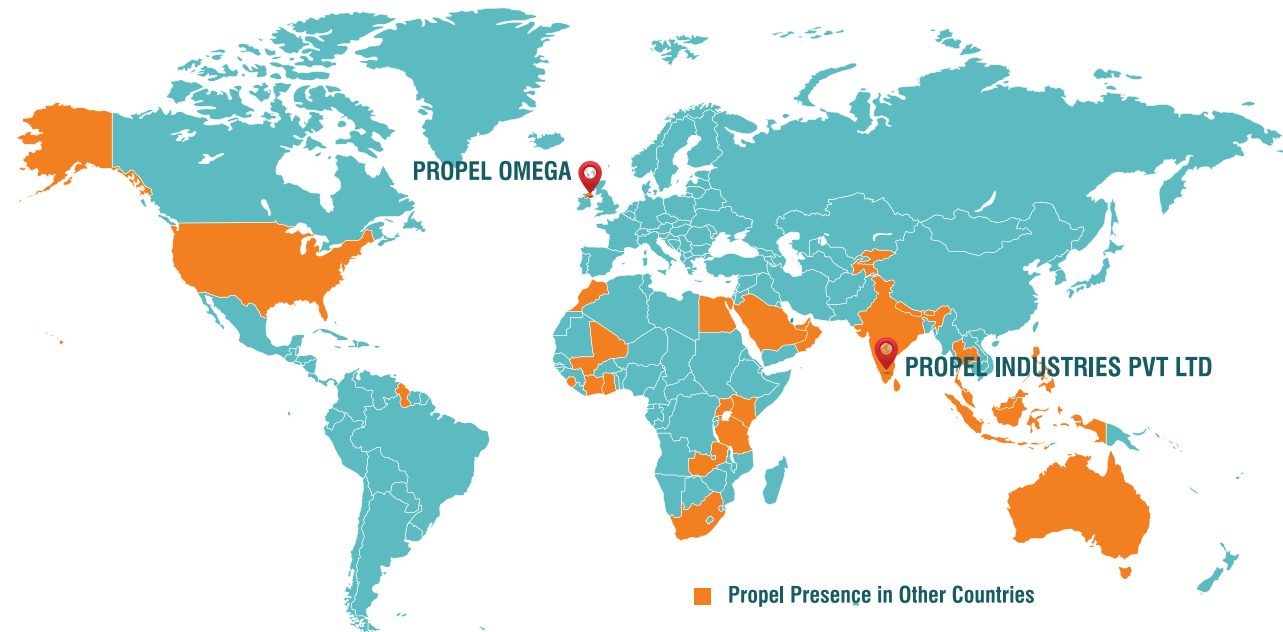
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OUR GLOBAL PRESENCE

36+ COUNTRIES



Disclaimer : Options and features for the EV dumper truck may not be standard. Colors might differ due to printing. Images are indicative, may not represent actual products . Specifications are subject to change without notice and are indicative for reference only.



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