GOVERNMENT OF INDIA
MINISTRY OF POWER

LOK SABHA
UNSTARRED QUESTION NO.3336
ANSWERED ON 20.03.2025

CHARGING TIME FOR ELECTRIC VEHICLES

3336. SHRI ZIA UR REHMAN:

Will the Minister of POWER be pleased to state:

(a) whether the Government is cognizant of the fact that the average charging time for Electric Vehicles (EVs) in India is 1.5 to 2 hours, far exceeding global benchmarks of 30 minutes to one hour for fast chargers; and

(b) if so, the details of the steps taken/proposed to be taken by the Government to reduce the charging time for EVs keeping in mind that these delays further erode consumer confidence in transitioning to EVs?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) & (b) : Charging time for electric vehicles depends on several factors such as charger type (or capacity), vehicle battery capacity, efficiency of chargers etc. Therefore, it may vary depending upon change in any of these parameters. The charging durations of some of the electric vehicles, as compiled by Bureau of Energy Efficiency, are at Annexure.

Under FAME-II scheme, Ministry of Heavy Industries, Government of India is establishing fast public charging infrastructure on major highways as well as in cities at fueling stations.

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ANNEXURE

ANNEXURE REFERRED IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 3336 ANSWERED IN THE LOK SABHA ON 20.03.2025

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The charging durations of different electric vehicles, available in public domain are as follows: -

Sl. No.	Vehicle type	Vehicle Model	Range (km)	Charging protocol	Charging time
1	e-2W	Ola S1 (E2W-AC-04) – 2.98 kWh	141 km	Ola charger (IS17017-2-6)	~ 1 hr.
2	e-2W	TVS iQUBE ELECTRIC SMART XONNECT – 3.40 kWh	115 km	LEV AC (IS 60309)	~ 1.2 hr.
3	e-2W	Ather 450X – 3.7 kWh	161 km	Ather Grid (IS17017-2-7)	~ 1 to 1.5 hr.
4	e-2W	AtherRizta – 3.7 kWh	159 km	Ather Grid (IS17017-2-7)	~ 1 to 1.5 hr.
5	e-2W	Ultraviolette F77 Mach 2 Recon – 10.3 kWh	323 km	UV Supernova (IS17017-2-6)	~ 1 hr.
6	e-3W	Piaggio Ape E- City FX Max – 8 kWh	145 km	LEV AC (IS 60309)	~ 3 hr 45 mins
7	e-3W	Mahindra Treo HRT – 7.37 kWh	171 km	LEV AC (IS 60309)	~ 3 hr 50 mins
8	e-3W	Bajaj RE E-TEC – 8.9 kWh	178 km	LEV AC (IS 60309)	~ 4 hr 50 mins
9	e-3W	Mahindra Treo Zor - 7.37 kWh	80 km	LEV AC (IS 60309)	~ 3 hr 50 mins
10	e-4W	TATA PUNCH.EV ADV LR ACFC – 35 kWh	365 km	Type-II AC (7 kW) CCS-II DC (50 kW)	AC ~ 5 hr. DC ~ 56 mins
11	e-4W	TATA NEXON.EV – 45 kWh	489 km	Type-II AC (7 kW) CCS-II DC (60 kW)	AC ~ 6hr 36 mins DC ~ 40 mins
12	e-4W	HYUNDAI KONA ELECTRIC – 39.2 kWh	452 km	Type-II AC (7 KW) CCS-II DC (50 kW)	AC ~ 6 hr 10 mins DC ~ 57 mins
13	e-4W	MG ZS EV – 50.3 kWh	461 km	Type-II AC (7 KW) CCS-II DC (50 kW)	AC ~ 8.5 to 9 hr DC ~ 1 hr
14	e-4W	MG Windsor EV Excite – 38 kWh	332 km	Type-II AC (7 KW) CCS-II DC (50 kW)	AC ~ 7.5 hr DC ~ 55 mins
15	e-4W	KIA EV 6 GT Line AWD – 84 kWh	650+ km	CCS-II DC (50 kW)	DC ~ 73 mins

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