

PART B

ELECTRIC MOTORCYCLE (EM)

INTRODUCTION

237 Electric powered motorcycles and scooters are plug-in-electric vehicles with two or three wheels. The electricity is stored on board in a rechargeable battery, which drives one or more electric motors.

238 Electric powered motorcycles and scooters are generally of the same size and weight and are comparable in performance with petrol driven motorcycles.

FEATURES OF ELECTRIC MOTORCYCLES

239 The features of the electric motorcycles are similar to the petrol engine motorcycles. They generally have the same operating function such as brakes, mirrors, lights and etc.

240 The only difference is that electric motorcycle runs on automatic transmission gear without having the clutch which is used for manual transmission motorcycles. Similarly, some petrol engine motorcycles and scooters presently runs on automatic transmission.

241 Electric motorcycles have better acceleration as they develop higher torque. Generally electric motorcycles weigh lighter and have a low engine noise.

CLASSES OF DRIVING LICENCES

242 The following table is the categorisation of electric motorcycles with existing Class 2B, 2A and 2 categories under the law.

Licence Class	Categorisation for Petrol Motorcycles	Categorisation for Electric Motorcycles	Existing Driving Licensing Requirements
Class 2B	Below 200cc.	Below 15kW.	Pass the Basic Theory Test, Riding Theory Test and Class 2B practical driving test.
Class 2A	Between 200cc and 400cc.	Between 15kW to 25 kW.	Possess a valid Class 2B licence for at least one year, and pass the Class 2A practical driving test.
Class 2	Above 400cc.	Above 25kW.	Possess a valid Class 2A licence for at least one year, and pass the Class 2 practical driving test.

ADAPTING TO ELECTRIC MOTORCYCLE

243 Although the electric motorcycle features and operations are quite similar to petrol engine motorcycles, riders should accustom themselves with the electric motorcycle faster acceleration. The general road safety rules should be when riding the electric motorcycle.