JADUAL I (SCHEDULE I)

Type Approval Performance Requirements (L - Motorcycles)

Item No.	Subject	Particulars of instrument or other documents containing requirements	Nature of requirement	Date of application
1	Reflector Performance	E.C.E R3		
2	Indicator Performance	E.C.E R6		
3	Sound signal device	E.C.E R28		
4	Speedometer	E.C.E R39		
5	Exhaust emission	Peraturan-Peraturan Kualiti Alam Sekeliling (Kawalan Pelepasan Daripada Enjin Petrol) 1996. E.C.E R40		
6	Noise emission	Peraturan-Peraturan Kualiti Alam Sekeliling (Bunyi Bising Kenderaan Motor) 1987. E.C.E. R41		
7	Brake Lamp Performance	E.C.E R50		
8	Head Lamp Performance	E.C.E R50/R53/5113		
9	Protection Against Unauthorised Use	E.C.E. R62		
10	Tyres	M.S 1394 E.C.E R75		
11	Brake Performance	E.C.E R78		

Item No.	Subject	Particulars of instrument or other documents containing requirements	Nature of requirement	Date of application
12	Rear View Mirrors	E.C.E R81		
13	HID Head Lamp Performance (if any)	E.C.E R98/R99		
14	Battery Electric Vehicles (if any)	MS 2413 : 2011		

SCHEDULE II

APPLICATION FOR TYPE APPROVAL OF MOTOR VEHICLE

Reference No :

Date of submission.

Part 1: General Information

1. Applicant's name and address

   _____

   _____

   _____

   _____

   _____

2. Make (Manufacturer) : _____

   Model Name : _____

   Model Code : _____

   Model Year : _____

3. Type and configuration body :

   _____

4. Country of manufacture

   _____

5. Proposed usage

   _____

Part II. <u>Specifications</u>

(*) Please state/specify performance standard according to MS/SCE/ADR/JIS/other.

1. Dimensions

(a) Overall length (mm) _____

(b) Overall width (mm) _____

(c) Overall height (mm) _____

(d) Wheel base (mm) _____

i. Between first and second axles _____

ii. Between second and third axles _____

iii. Between third and fourth axles _____

(e) Ground clearance (mm)

i. Unladen _____

ii. Fully laden _____

(f) Wheel treads (mm)

i. Front axles _____

ii. Rear axles _____

(g) Body overhang (mm)

i. Front end _____

ii. Rear end _____

(h) Chassis frame overhang (mm)
(For chassis-cab model)

i. Front end _____

ii. Rear end _____

(i) Minimum turning circles (mm)

i. Kerb to kerb _____

ii. Body to body _____

(j) Gravity height (mm) _____

2. Weight

(a) Kerb Weight (kg)

i. Front axles _____

ii. Rear axles _____

(b) Number of axles _____

(c) Axle Rating

i. Front axles (kg) _____

ii. Rear first axles (kg) _____

iii. Rear second axles (kg) _____

(d) Design gross vehicle weight (kg) _____

3. Maximum stable inclination angle _____

4. Seating capacity (person) _____

5. Drive: Front wheel/Rear wheel/4 wheel _____

6. Spacing for the display of registration number plate:

Front ..... _____

Rear ..... _____

7. Engine

(a) Name of producer _____

(b) Type and model _____

(c) Position of mounting _____

d) Type of fuel _____

(e) Engine capacity _____

(f) Cycle _____

(g) No of cylinder _____

(h) Cylinder arrangement _____

(i) Bore X Stroke _____

(j) Piston Displacement _____

(k) Valve arrangement _____

(l) Compression ratio _____

(m) Max. net power (KW @ r.p.m.) _____

(n) Max. net torque (kN m @ r.p.m) _____

(o) Type of supercharger
or turbocharger _____

(p) Emission gas control system _____

(q) Lubricating system

(i) Lubricating method _____

(ii) Type of oil pump _____

(iii) Type of oil filter _____

(iv) Capacity of lubricating oil (l) _____

(v) Type of oil cooler _____

(r) Cooling system

(i) Cooling method _____

(ii) Type of radiator _____

(iii) Capacity of cooling water _____

(iv) Type of water pump _____

(v) Type of thermostat _____

8. Fuel system

(a) Fuel tank

(i) Material _____

(ii) Capacity (litre) _____

(iii) Position _____

(b) Fuel Pump

(i) Type _____

(ii) Flow rate _____

(c) Fuel Filter

(i) Type _____

(ii) Flow rate _____

(d) Fuel Injection

(i) Type _____

(ii) Model _____

(iii) Method _____

(e) Carburetor

(i) Type _____

(ii) Diameter of throttle valve (mm) _____

(iii) Diameter of venture (mm) _____

(iv) Type of choke valve _____

(f) Air cleaner

(i) Type _____

(ii) Number _____

(g) LPG/NGV/CNG equipment

(i) Make and Model of LPG/NGV/CNG kit _____

(ii) Make and model of container _____

(iii) Capacity of container _____

(iv) Supplier and authorised installer _____

9. Transmission system

(a) Type of clutch _____

(b) No. of speed _____

(c) Type of transmission _____

(d) Torque convertor pressure _____

(e) Gear ratio (to 1)

1 st gear _____

2nd gear _____

3rd gear _____

4th gear _____

5th gear _____

6th gear _____

Reverse gear _____

Differential gear _____

Wheel hub reduction _____

10. Running system

(a) Front axle type _____

(b) Rear axle type _____

(c) Tyre size

(i) Front tyre _____

(ii) Rear tyre _____

(iii) Spare tyre _____

(d) Rim size

(i) Front wheel _____

(ii) Rear wheel _____

(iii) Spare wheel _____

(e) Optional tyre and rim size

(i) Front wheel _____

(ii) Rear wheel _____

(iii) Spare wheel _____

(f) Air pressure

(i) Front wheel _____

(ii) Rear wheel _____

(iii) Spare wheel _____

(g) Ply rating

(i) Front wheel _____

(ii) Rear wheel _____

(iii) Spare wheel _____

(h) Maximum load on tyre

(i) Front wheel _____

(ii) Rear wheel _____

(iii) Spare wheel _____

11. Suspension system

(a) Front axle

(i) Type of suspension _____

(ii) Type of spring _____

(iii) Material of spring _____

(iv) Dimensions of main spring _____

(v) Number of main spring _____

(vi) Dimensions of auxiliary spring _____

(vii) Number of auxiliary spring _____

(b) Rear axle

(i) Type of suspension _____

(ii) Type of spring _____

(iii) Material of spring _____

(iv) Dimensions of main spring _____

(v) Number of main spring _____

(vi) Dimensions of auxiliary spring _____

(vii) Number of auxiliary spring _____

(c) Type of shock absorber

(i) Front wheel _____

(ii) Rear wheel _____

(iii) Name of producer _____

(d) Type of stabilizer

(i) Front wheel _____

(ii) Rear wheel _____

(iii) Name of producer _____

12. Steering System

(a) Steering wheel positions (LHS/RHS) _____

(b) Front wheel alignment

(i) Amount of side slip _____

(c) Booster

(i) Type _____

(ii) Name of producer _____

(d) Locking device

(i) Type _____

(ii) Name of producer _____

(iii) Mounting position _____

13. Brake System

(a) Service brake (Attached test report for service brake)

(i) Type

-Front _____

-Rear _____

(ii) Size of brake _____

(iii) Control system and
No. of braking wheel _____

(iv) Brake pipes/hoses

-Material _____

(v) Booster

-Type _____

-Magnification _____

(vi) Braking efficiency

-Front _____

-Rear _____

(vii) Other safety device incorporated
(ABS/SLIPS/LSD or others) _____

(b) Parking brake (Attached test report for service brake)

(i) Type _____

(ii) Braking efficiency

-Front _____

-Rear _____

(c) Auxiliary brake (if any)

(i) Type _____

(ii) Performance* _____

(d) Emergency brake (if any)

(i) Type _____

(ii) Performance* _____

(e) Separate brake (if any)

(i) Type _____

(ii) Performance* _____

14. Chassis frame

(a) Type _____

(b) Cross section dimension _____

(c) Type of material _____

(d) Type of side protection device _____

(e) Sample of chassis code number _____

15. Body

(a) Type _____

(d) Any back protection device _____

16. Equipment for passengers

(a) Seat belt anchorage

(i) Type _____

(ii) Number _____

(iii) Performance* _____

(b) Seat belt

(i) Name of producer _____

(ii) Type _____

(iii) Number _____

(iv) Performance* _____

(c) Head restraint

(i) Name of producer _____

(ii) Type _____

(iii) Number _____

(iv) Performance* _____

(d) Doors

(i) Type _____

(ii) Number _____

(iv) Performance* _____

17. Glass

(a) Front windscreen

(i) Name of producer _____

(ii) Kind/Type of glass _____

(iii) Thickness _____

(iv) % of light transmission _____

(v) Performance* _____

(b) Side windows

(i) Name of producer _____

(ii) Kind/Type of glass _____

(iii) Thickness _____

(iv) % of light transmission _____

(v) Performance* _____

(c) Rear screen

(i) Name of producer _____

(ii) Kind/Type of glass _____

(iii) Thickness _____

(iv) % of light transmission _____

(v) Performance* _____

18. Noise prevention device

(a) Silencer

(i) Name of product _____

(ii) Type _____

(iii) Number _____

(b) Noise level (dBA)

(i) Stationary
(Attached test report and method test) _____

(ii) Accelerated running
(Attached test report and method test) _____

(iii) Performance* _____

19. Exhaust emission control device (Attached test report)

(a) Type _____

(b) Position and direction of exhaust pipe opening _____

(c) HSU level/K Value/Opacimeter Value (free accelerated test) _____

(d) CO) _____
) idling mode
(e) HC) _____
)
(f) NOx) _____
)
(g) H_2O) _____

(h) CO) _____
) as per
(i) HC) ECE _____
) 15.04
(j) NOx) _____
)
(k) H_2O) _____

(l) Performance* _____

20. Electrical System

(a) Operating voltage _____

(b) Type of Ignition system _____

(c) Type of electric wave noise suppression or prevention device _____

(d) Spark Plug

(i) Type _____

(ii) Gap _____

(d) Battery capacity (AH) _____

(e) Charging system

(i) Type _____

(ii) Output _____

(f) Starting system

(i) Type _____

(ii) Output _____

21. Lighting equipment

(a) Head lamps

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Automatic or manual low and high adjuster _____

(v) Performance* _____

(b) Front fog lamps

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Performance* _____

(c) Front turning lamps

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Rate of flashing _____

(v) Performance* _____

(d) Front side turning lamps

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Performance* _____

(e) Daytime running lamps

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Performance* _____

(f) Rear reflex reflector

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Performance* _____

(g) High mount stop lamps (3rd brake light)

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Performance* _____

(h) Tail lamps

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Performance* _____

(i) Stop lamps

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Performance* _____

(j) Rear turning lamps

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Performance* _____

(v) Rate of flashing _____

(k) Hazard light (front/rear)

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Performance* _____

(v) Rate of flashing _____

(l) Passenger compartment lamp

(i) Name of producer _____

(ii) Type _____

(iii) Number and colour _____

(iv) Performance* _____

(m) Back -up lamps

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Performance* _____

(n) License lamps (front/rear)

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Performance* _____

(o) Rear fog lamps

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Performance* _____

(p) Rear side marker lamps

(i) Name of producer _____

(ii) Type _____

(iii) Numbers, colour ...watts _____

(iv) Performance* _____

(q) Goods compartment lamps

(i) Name of producer _____

(ii) Type _____

(v) Numbers, colour,.....watts _____

(iv) Performance* _____

22. Warning device

(a) Horn

(i) Name of producer _____

(ii) Type _____

(iii) Level of loudness _____

(iv) Performance* _____

23. Rear view mirror (Automatic or manual adjustment)

(a) Left

(i) Type _____

(ii) Dimension and radius curvature _____

(b) Right

(i) Type _____

(ii) Dimension and radius curvature _____

(c) Inside

(i) Type _____

(ii) Dimension and radius curvature _____

(iii) One way or two ways adjustment _____

24. Wipers

(a) Type _____

(b) Number _____

(c) Performance* _____

25. Meters and dash board

(a) Speedometer

(i) Type _____

(ii) Performance* _____

(b) Tachometer

(i) Type _____

(ii) Performance* _____

(c) Odometer

(i) Type _____

(ii) Performance* _____

(d) Other meter fitted

(i) Type _____

(ii) Performance* _____

26. Other accessories fitted

(a) _____

(b) _____

(c) _____

(d) _____

(e) _____

Part III. <u>Other Information</u>

The following documents shall be submitted:-

1. Chassis frame strength calculation (not necessary for the monocoque body frame.

   The strength calculation shall be attached.

   Please specify the standard adopted.

   Note: The measurement by strain gauge etc. may be substituted for strength calculation.

2. Braking Ability Calculation

   The braking test data by test vehicles may be substituted for braking ability calculation.

   Please specify the standard adopted.

3. Test data/ reports to be attached

   The test data/ report as per the requirement as stipulated in schedule 1 of the motor vehicles (Type Approval and Recalling) rules 1998 shall be attached.

I hereby certify that to the best of my knowledge, the above information are correct and I fully understand that should any of the above information is found to untrue, the application may be rejected or the type approval certificate, if issued, may be cancelled or suspended.

Date:

(Signature)

Name:

Position:

BORANG MAKLUMAT SIJIL KELULUSAN JENIS KENDERAAN
(VEHICLE TYPE APPROVAL)

BUATAN	
NAMA MODEL	
KOD MODEL	
MODEL TAHUN	
JENIS / PREFIX NOMBOR ENJIN	……. / ……, ……..**Cylinder,** ……**Stroke**
KAPASITI / KUASA ENJIN (KW)	
BAHAN BAKAR (RON)	
BILANGAN TEMPAT DUDUK	
TRANSMISI (Speed)	
JENIS BADAN	
KEGUNAAN	
KOD BUATAN	
NEGARA PEMBUAT (CBU/CKD)	
NAMA & ALAMAT PEMOHON	

Pengesahan Syarikat

……
(Nama Syarikat:)