**Mass Calculation Sheet (MCS)**

**Weigh docket must be attached with this sheet**

***Definition: ‘mass in running order’ means in the case of a motor vehicle:***

*the mass of the vehicle,* ***with its fuel tank(s) filled to at least 90 %*** *of its or their capacity/ies,* ***including the mass of the driver (75kg),*** *oil and other liquids, fitted with the standard equipment in accordance with the manufacturer’s specifications and, when they are fitted, the mass of the bodywork, the cabin, the coupling and the spare wheel(s) as well as the tools;*

|  |  |
| --- | --- |
| Weight of unladen vehicle as per weigh docket=  ***(ensure there is no driver in cab as 75kg shall be added in to represent driver as per definition above)*** | KG |
| Capacity of Fuel tank litres= | Ltrs |
| Approximate fuel level when weighed= | % |
| Fuel type (diesel, Petrol, LPG, other)= |  |
| VIN: |  |

***Example of mass in running order calculation:***

*Weigh docket = 2000kg*

*Fuel tank size = 80litres*

*Approximate fuel level when weighed = 50%*

*Fuel type= diesel (density of diesel is 0.832 kg/L)*

*Note: to calculate 90% of fuel tank we must first subtract the 50% that was in tank when weighed and then add on the 90%*

*Weight of 50% of fuel tank = 80 x .832 x .5 = 33.28kg/L*

*Weight of 90% of fuel tank = 80 x .832 x .9 = 59.9kg/L*

*using definition of mass in running order above:*

*(2000– 33.28) + 75kg + 59.9 = 2101.62*

*mass in running order = 2101.62*