



The Federation of Motor Sports Clubs of India

**2016 FMSCI STANDARD OPERATING
PROCEDURES**

DRAG RACING

DOCUMENTATION / INFORMATION

- Name and Status of the Event
- 2W / 4W or only 2W or only 4W
- Sporting Regulations and Classes being run
- Risk Analysis document duly filled in and signed by the Organizer and COC
- Safety & Medical Document duly filled in & signed both by the CMO & COC.
- Associate Hospital close by, Distance by Road and Hospital confirmation letter for acceptance of any injured participant if required for treatment.
- Track Layout Drawing, Barricading Drawing, Pits Location drawing, Assembly Area Drawing, Scrutiny Area Drawing, COC and Stewards Area drawing.
- List of permissions applied for and acknowledgement of application from the department.
- 3rd party event Insurance copy.
- List of Officials sheet
- Program Sheet
- Preferred date for track inspection by FMSCI delegate
- Event timings are 0900 to 1800 which have to be respected .(in daylight only)
- Details of Timing Equipment being used.

TRACK INSPECTION

- CAD drawing & proper, accurate sketch to be submitted.
- track inspection can be done minimum 1 week before the event.
- 1 week post receipt of draft SR, inspection will be done.
- In the event it is a restricted area, the organisers will send a visual for inspection.
- Barricading inspection by Steward at least 1 Day before the event
- In case track inspection is not possible, then the CAD drawing & proper, accurate sketch must come to FMSCI and will be given to the stewards to ensure that the organiser has carried out all the requirements.
- 1st line permitted barricading – Bamboo / casuarinas, ARMCO, concrete blocks, water-filled plastic barrier (minimum 1 metre height), concrete wall, MOJO barriers (minimum 1 metre height)
- 2nd line barricading - same as permitted for 1st line barricading. In addition sheets are permitted provided they are facing the spectator side.
- Cones or haybales must be placed at the end of the braking distance.
- In case the event is run on track where there is an elevation of min 1 % , the event will be allowed to run provided the runoff is uphill.

WIDTH OF THE TRACK

- As our current race tracks are 11 mts wide. It was decided that the minimum width should be 11 metres
- Centre line will have double cones (non metallic) upto 5 metres from Start Line.
- Outer edge to be defined by cones.

EXPERIENCE OF OFFICIALS

- CMO, CSO, CRO, Start Marshall, Chief Starter, Chief Marshall, Scrutineer & 1 assistant, Time Keeper. To be run through the Drag Commission first.
- Technical Delegate from the FMSCI Pool to be appointed for every Drag event
- List of CMOs available with Dr. Udaykumar Balakrishna.
- For 100 vehicles (2 or 4w) a minimum of 2 scrutineers & 3 assistants will be required.

NUMBER OF RUNS PERMITTED PER DAY

- Mandatory practice for each class.
- Organiser to schedule accordingly .
- If competitor does not do practice he should report to the stewards (their discretion)
- The Maximum number of runs per day will be 175 Runs which includes practice.
- An additional 25 runs per day may be granted by the Stewards if they are satisfied that the program can be completed in daylight.
- It is also compulsory that every entrant gets a practice run to acclimatize himself/herself with the track. This practice run will also be counted as part of the Maximum number of runs per day.
- Thus, if the Maximum runs post the Stewards approval is 200 runs per day, the Organizers need to calculate their cut off for the entries after taking into account that each entrant will also be given a compulsory practice run. If the entries are more than the maximum runs permitted, then either the event has to be for 3 days or the number of entries restricted to the maximum number of runs permitted over 2 days.

MINIMUM SAFETY REQUIREMENTS FOR DRAG RACING ON A GRADE C DRAG STRIP

- Distance from edge of track to 1st barrier - 10 meters
- Gap between 1st barrier and 2nd barrier - 5 meters.
- Distance of barricading will be 50 meters from start line and then will be closed giving spectators no access to go beyond that.
- The Braking Distance for a 1/8th Mile Drag race should be 400 meters from the Finish Line.
- The Braking distance for a 1/4th Mile Drag Race should be 500 meters from the Finish Line.
- If there is a non movable obstacle at the end of the braking distance, then the braking distance should be increased by 100 meters for a 1/8th mile and by 200 meters for a 1/4th mile drag race.
- If Top Fuel and Twin Engine Bikes are used, then the braking distance for a 1/8th mile should be 500 meters and for a 1/4th mile be 600 meters and if there is a non movable obstacle at the end of the braking area, then the additional run off area for a 1/8th mile should be 200 meters for the 1/8th mile as well as the 1/4th mile.
- Width : as per FIA/UEM Specs but waiver can be granted based on FMSCI discretion
- fastened wooden barricading is the minimum criteria

FIRE EXTINGUISHERS – MINIMUM REQUIREMENTS

- 2 Nos 25 Kg on a pick up truck
- 4 Nos of 6 Kg extinguishers at the start

- 2x2, 6 kgs extinguishers every 100 meters.
- Water mist fire system is a must

SAFETY GEAR FOR DRIVERS / RIDERS TO BE SPECIFIED IN THE SRS

Safety Gear for 2 Wheelers

- ***Superbikes, Stock or Group A - 600 to 1200 CC, Group B & Group C Classes running to the FMSCI 2 W Racing regulations-***
- Full riding gear such as overalls, racing helmet, gloves & boots as defined in the 2 W Racing Regulations.
- ***For Classes other than what is mentioned above and below 250 cc whether stock or Open***
- Jeans with jackets, gloves, ankle length boots, helmet as per DOT or EC approvals, knee guards and elbow guards.

Safety Requirements for 4 Wheelers

ROLL CAGES :

- *Super Cars :*
- Super Cars running at 9.99 seconds and faster : Roll Cage is mandatory.
- Super Cars running at 10 seconds and slower : Roll cage not mandatory.
- Cars with roll cages – 4 point harness mandatory.

ET HANDICAP RACING, STOCK-BODY VEHICLES, ALTERED-BODY VEHICLES

- Cars running at 11.99 seconds and faster : Roll Cage is mandatory.
- Cars running at 12 seconds and slower : Roll cage not mandatory.

HELMETS :

- All cars running at 11.99 seconds and slower, drivers need to wear Helmets as per specifications defined in the FMSCI Racing Regulations.
- All cars running at 12 seconds and slower, drivers need to wear Helmets with either DOT or EC Approvals.

OVERALLS, GLOVES, SHOES, ETC

- All cars running at 11.99 seconds and faster, drivers will need to wear overalls, shoes and gloves as specified in the FMSCI Racing Regulations.
- All cars running at 12 seconds and slower, following needs to be adhered to : Full-length pants; short or long-sleeved shirt; closed shoes; and socks. No shorts. No tank tops. No open-toe or open heel shoes or sandals. Synthetic clothing not recommended
- Competitors ID Tag must have name / photo / Blood Group

MEDICAL REQUIREMENTS

- Minimum requirement is 1 no Advanced Trauma Care ambulance & 1 normal ambulance.
- Confirmation from hospital and COC that the Doctor on duty has experience in Trauma / Emergency care.
- If there is no full-fledged medical center at the site, the nearest hospital should be around 30 minutes drive away.
- Safety & Medical Questionnaire to be filled up & signed by both CMO / COC
- **Ambulance** – B1 mandatory & C1 recommended if hospital is far away

First Intervention Vehicle

DUTIES

- To reach the site of the accident in the least possible time
- Assess the accident and report back to race control
- Extrication or Fire fighting if required.
- Assess injuries and provide preliminary first aid.
- Facilitate evacuation of the injured to the ambulance. (Only to be done if Doctor decides that it is safe to transport the injured in the FIV. If the Doctor decides otherwise the Ambulance should be moved to the accident site for evacuation of the injured to a hospital)
- If evacuation to a hospital is required then the Doctor on board the FIV should accompany the injured in the Ambulance

CREW ON BOARD

- An experienced driver
- A Doctor skilled in resuscitation
- A helper to assist in Fire fighting and or extrication.

MANDATORY EQUIPMENT ON BOARD

- A Radio transmitter/receiver
- Two 4 Kg fire extinguishers (dry chemical powder type)
- Tow chain/ Thick Nylon rope (20 feet)
- One Crowbar
- One large Hammer
- One Metal cutting shears
- One Cutting pliers
- One Spanner for battery terminal
- Water
- Chisel

DRAG RACING CLASSES

The following classes are the approved classes which can be technically scrutineered by the FMSCI and protests on technical grounds can be investigated. Organisers are free to run any other classes on closed basis only. However, class names should not have the words “stock” embedded in the name.

4 wheelers:

Pro Stock Petrol

- upto 1150 cc
- 1151 – 1450 cc
- 1451 to 1650 cc
- 1651 – 2050 cc
- 2051 – 2550 cc
- 2551 – 3050 cc
- 3051 cc and above

Only one of Turbo charging / Super charging / Nitrous allowed, with a multiplication factor of 1.7 on the cubic capacity.

Pro Stock Diesel

- upto 1150 cc
- 1151 – 1450 cc
- 1451 to 1650 cc
- 1651 – 2050 cc
- 2051 – 2550 cc
- 2551 – 3050 cc
- 3051 cc and above

For Pro-stock Diesel and Petrol, the shell should be a production shell with engine block, head and gearbox casing of production type. All internals are free. After market forced Induction / Nitrous allowed subject to only one of Turbo charging / Super charging / Nitrous allowed, with a multiplication factor of 1.5 on the cubic capacity for Diesel and 1.7 for Petrol.

Unrestricted class – no restrictions. All open wheeled cars, cars with other Indian / Foreign engines, Super cars, Foreign cars.

In all the approved classes, Pre-event scrutiny will be for safety, and post event will for technical compliance. All vehicles entering in the above approved classes undertake to permit opening of their vehicles and engines for post-event scrutiny.

Irrespective of whether the approved classes are run or not, the safety requirements as specified by the FMSCI from time to time shall be met without exception.

2 wheelers:

2 stroke:

- upto 130 cc
- 131 – 165 cc
- 350 cc and above

4 stroke:

Open classes, no restriction of number of cylinders:

- upto 165 cc
- 166 – 225 cc
- 226 – 360 cc
- 361 – 550 cc
- 551 – 750 cc
- 751 – 1050 cc
- 1051 cc and above
- Single / Twin 551 – 850 cc
- Unrestricted class

PERMISSIONS FROM LOCAL AUTHORITIES

- Police permission is mandatory for public roads. Owners permission is mandatory for private property. Intimation of event is mandatory with acknowledgement in all cases.
- Confirmation / consent letter from nearest hospital that they are aware of the event and willing to provide the medical services.
- Any other permission/s

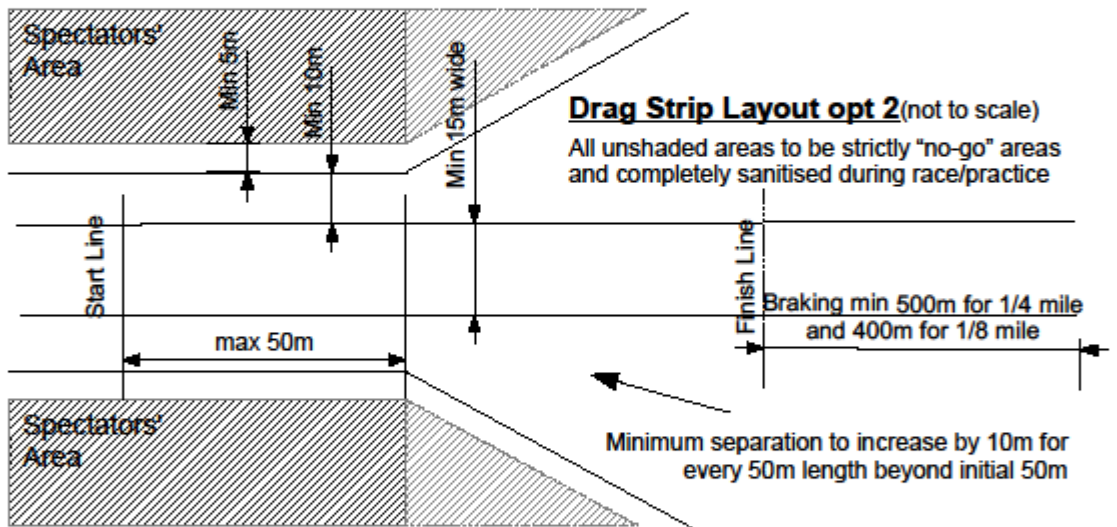
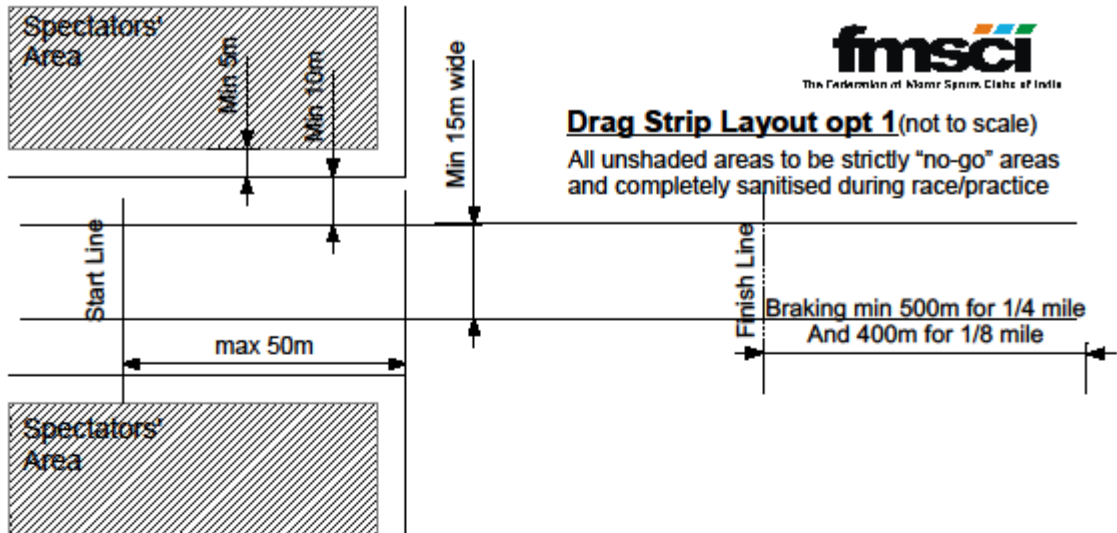
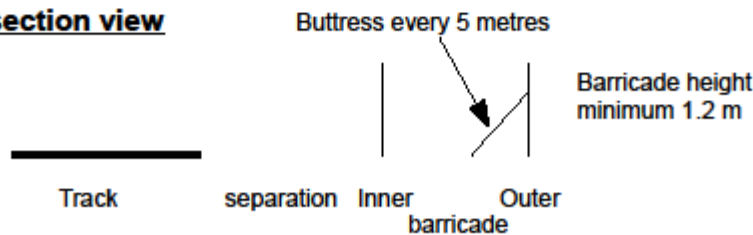


Illustration of separation: For a total spectator area length of 100m from starting line, the minimum separation between track edge and inner barricade will be 10 m + 10 m = 20m

Cross - section view



- Notes: (i) Double barricading recommended, not mandatory for spectator area beyond run off area;
 (ii) barricades not required in case of masonry wall.
 (iii) In case braking area ends in an unmovable object, an additional 200m braking length required for 1/4 mile and 100m for 1/8 mile.