



**Hon. S. M. Katkar**  
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CONVENOR

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### College Level Technical Inspection

1	Team Captain		Signature	
2	Team Name		Signature	
3	College Name			
4	Driver 1		Signature	
5	Driver 2		Signature	
6	Faculty Advisor		Signature	

Sr.	Reference from Rulebook	Rules	Tick if Approved(Tech Inspector only)	Comments
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### Driver Safety

1	C.3.1	<b>Driver Suit</b> (Single Layer, SFI 3-2A/1 or higher or FIA Standards 1986).		
2	C.3.1	<b>Underclothing</b> (No other than fire resistant material or 100% cotton).This fire resistant underclothing should be made from an acceptable fire resistant material and should cover the driver's body completely from neck down to ankles and also the wrists		
3	C.3.2	<b>HELMET</b> (Snell K2000, K2005, K2010, M2000, M2005, M2010, SA2000, SA2005, SA2010, SFI 31.2A, SFI1.1/2005, FIA 8860-2004, FIA 8860-2010), Open Faced Helmet is not allowed. The helmet requirement applies to drivers of either gender, with any hair length.		
4	C.3.4	<b>Balaclava</b> Fire Resistant, the balaclava requirement applies to drivers of either gender, with any hair length		

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5	C.3.3	<b>Neck Support SFI</b> Rated, Full Circle 3600, Simpson, RCI, GeForce, Deist or Leaf Racing Products supply neck collars that meet this requirement.		
6	C.3.5	<b>Gloves</b> Leather Gloves with extra foam, no half gloves.		
7	C.3.6	<b>Shoes</b> (Fire Resistant, SFI 3.3, FIA 8856-000, OMP) Sport shoes/Canvas shoes/Leather shoes/Industrial safety shoes are not allowed at any point of the event.		
8	C.3.7	<b>Socks</b> (Fire Resistant) allowed		
9	-	<b>Driver's License</b> (Four Wheeler, Learner's License is not acceptable)		
10	-	<b>Medical Insurance</b>		
11	-	<b>Physical Fitness Certificate</b> (It can be taken from any recognized medical		
<b>C.Roll cage (chassis) And Vehicle Specifications</b>				
12	C.1.1	<b>Material</b> (acc to rulebook)		
13	C.1.2	<b>Wheelbase:</b> Minimum: 40 inch		
14	C.1.3	<b>Track Width:</b> Smaller track width (front or rear) must be no less than 80% of the wheelbase of the vehicle.		
15	C.1.4	<b>Ground Clearance</b> Minimum 2 inch of static ground clearance measured from the lowest point. No compensation done in this part.		
16	C.1.5	<b>Jack Point</b> It is Tube (Min OD 1-2 inches) welded below the chassis. This will serve the purpose of the jack point and the same arrangement must be installed at both ends of the vehicle.		

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17	C.1.6	<b>Turning Radius</b> Maximum turning radius allowed is 3.5 m.		
18	C.1.7	<b>Bumper</b> They cover the tyres and protect vehicle during impact. Bumper should be made up of single tube with insulations.		
19	-	<b>Push and Pull Bar</b>		
<b>Steering, Brakes</b>				
20	C.1.8	<b>Steering</b> Positive steering stop, free play of the steering is limited to 7 deg. Steering Wheel Continuous perimeter, near round, no concave sections, rigidly mounted The steering column must be rigidly fixed. Welding of steering wheel with column is not allowed.		
21	C.1.9	<b>Brake</b> The vehicle must be equipped with a braking system that is operated by a single control. There should be No electronic braking and No leakages in flow connections. The vehicle must be stopped in a straight line without losing control during the brake test. Break over travel switch must be installed.		
22	C.1.13	<b>Brake Light</b> The vehicle must be installed with a brake light red in color which is clearly visible from the rear. All the electrical connections done must be well insulated.		
23	C.1.15	<b>Brake over Travel Switch</b> This switch should not be operable in normal braking conditions; it must act in case of brake failure or the over travel of the brake paddle in case of brake failure. This switch must kill the engine but not the brake light connection when pressed.		
24	-	<b>Visible Access (To ALL components)</b>		

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<b>Safety</b>				
25	C.1.14	<b>Kill Switch</b> Kart must be equipped with at least two kill switches. The kill switch must be installed properly and rigidly in a case. Mounting the kill switch with plastic/metallic ties or wires is strictly prohibited. First one must be rigidly mounted near the steering wheel. Second kill switch should be placed in left side of the vehicle such that in emergency the bystander can operate it easily.		
26	C.1.22	<b>Fire Wall</b> It should be made in such a manner that driver's body parts are not affected by the engine heat/fire at any time during the dynamic/static condition. There should be minimum 3-inch clearance between the firewall and the engine. Minimum Thickness of firewall must be minimum 1 mm.		
27	C.1.10	<b>Driver Seat</b> Every team has to use proper Go karting Seat. Condition Alignment of the driver sitting posture must be near about parallel to Vehicle's longitudinal axis. <b>Driver Seat Belt Mandatory</b>		
28	C.1.18	<b>Lock Nuts</b> There must be a center wheel nut on wheel stub axle blocking the whole hub and bearing assembly to come out.		
29	C.1.24	<b>Battery</b> The placement of battery must be far enough from heat generated by engine. It must be made up of Metal and should restrict battery motion in any direction. The foam or rubber must be inserted between battery base and battery mount. The battery terminals must be insulated and should not touch any metallic part. The use of auxiliary batteries is prohibited once a car has moved to the starting line of any event.		

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30	C.1.23	<b>Exhaust</b> The exhaust system must be properly shielded preventing the delicate parts which may get affected if exposed to the heat. The exhaust system can be re-routed with proper dimension tubing.		
31	C.1.20	<b>Fire Extinguisher</b> At least two (Each of 2kg) fire extinguisher are must. One placed in vehicle and one should be available with the Crew.		
32	C.1.17	<b>Base Floor</b> It is provided to avoid any foreign material accidentally entering from base of the vehicle. Minimum thickness of Base floor shall be 2 mm. It must be laterally edged by a tube or a rim preventing the Driver's feet from sliding off the platform. If it is perforated, the holes must not have a diameter of more than 10 mm. In addition, one hole with a maximum diameter of 40 mm is allowed for the sole purpose of steering column access.		
33	C.1.21	<b>Path for Wires and Pipes</b> No pipelines/wire connections must go under the chassis. Doing so may lead to disqualification of the team.		
34	-	<b>Reverse Light and Alarm</b> If the vehicle is equipped with reverse gear, it should have reverse light and alarm. Reverse alarm is mandatory to install for safety reasons which shall Operate when the reverse gear is engaged.		
35	-	<b>Throttle paddle</b> Must have positive stop. It must give full return. There must not be any sharp edges nearby the Throttle paddle		
36	-	<b>Safety Equipment's</b> Every team is advised to use proper safety equipment's during the Manufacturing or during any repair work on site. Welding face shield, safety gloves, full sleeves cotton inner shirt, apron, safety shoes, safety goggles		

## Engine

37	C.1.11	<b>Fuel Tank</b> Every vehicle must have a spill over prevention container mounted on the top of the fuel tank. The fuel in the spillover tank must be transported to the ground by the use of proper drain linings. The fuel tank must have a ventilation to make the tank empty.		
38		<b>Chain Guard</b> Every vehicle must be equipped with proper chain guard. It must be mounted rigidly to the frame and must not hinder with the Moving chain and sprocket.		

## Body Works and Others

39		Rear View Mirror (Optional)		
40		Front Body Works (Must have enough area for placing the vehicle number, achievement logos and zealdragLogo)		
41		Front and Side panels Front and side panels are mandatory.		
42		Vehicle's Mass Must not exceed 130kg without driver.		

Sr. No.	Content	STATUS Y/N
1	<b>Final Design Report</b>	
2	<b>List of all Purchased/Readymade Parts</b>	
3	<b>List of Self Fabricated Parts</b>	
4	<b>Cost Report and Bills</b>	

<b>Date Of TI</b>	<b>Status Of TI</b>
<b>Sign of faculty advisor</b>	<b>Sign of Team captain</b>
<b>Name and Sign of Technical Inspector</b>	

College Stamp