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EVENT DIRECTOR

Robert Walker
r.walker@jukwaa.net
+27 12 661 0285

EVENT & PROJECT MANAGER

Lize-Mari Nel
admin@ilangacup.co.za
+27 12 661 0285

TEAM LIAISON OFFICER

Rycardo Simoes Alves
teams@ilangacup.co.za
+27 12 661 0285

VOLUNTEER COORDINATOR

Chanté van den Berg
volunteer@ilangacup.co.za
+27 12 661 0285

Welcome!

The Ilanga Cup is Southern Africa's first closed track endurance circuit event, which is focused on driving the innovation of renewable and alternative energy. The event takes place annually and has been created for local solar car teams to put their solar vehicles to the test in a controlled environment, designed and focused on measuring the vehicles' performance, efficiency, and durability.

The Ilanga Cup serves as a platform for solar car teams - professionals and amateurs alike - to not only test their solar cars but also learn and improve both team and the vehicle dynamics – doing this in the most efficient way possible. With these opportunities, the aim is to nurture young and upcoming solar car teams and grow existing solar car teams in order to be able to compete in larger-scale events that are internationally recognised such as our very own South African Sasol Solar Challenge.

The event offers three entry classes that allow enthusiasts, pioneers, and professionals to design and build a vehicle solely powered by the sun for competition. These classes are as follows:

- **Challenger Class** is for single-seat solar cars designed to be fast
- **Cruiser Class** is for efficient, practical solar cars with two or more seats
- **Adventure Class** is non-competitive, and is designed purely for hobbyist's or project cars

The information contained in this document is for the purposes of conducting the 2022 Ilanga Cup and must not be regarded as constituting definitive instructions as to how a solar car should be constructed or operated.



Robert Walker

Event Director

Special Credits

Technical Regulations ©Bridgestone World Solar Challenge, used with permission.

1. General Information

1.1. Communication between your Team and the Ilanga Cup

1.1.1. Sporting Regulation 1.6.2 requires you to nominate a Team Manager. The Team Manager is responsible for the actions of their team members and represents the team at meetings.



Your team may use a different title internally, but as the Team Manager has certain obligations you must identify who this person is. By default, this person will be the main contact person between your team and the event organisers. However, if you nominate a different person as a lead contact, the Team Manager must be copied on all conversations.

Our Team Liaison Officer is the point of contact between the event organisers and the team.

The event organisers' team are here to help. The event organisers' office is in Centurion, Gauteng, South Africa and maintains office hours in South African Standard Time. The telephone number is +27 12 661 0285.

Please only use the dedicated email teams@ilangacup.co.za to contact the event organisers.

An Event Headquarters will be established at Red Star Raceway from Tuesday 19 July 2022. Event staff will be pleased to assist you with whatever help and local advice you may need.

Further contact details will be provided via a team notice or update to this document closer to the event.

For all important dates, places, and deadlines, refer to the schedule published as Sporting Regulation 1.12, noting a detailed event schedule will be published closer to the event.

1.2. Structure of your team

1. The basic structure of your team is an obligation of Sporting Regulation 1.19.

In addition to the Team Manager, you must have a Safety Officer to ensure the team identifies, mitigates, and manages the risk of participation.

The Safety Officer must ensure that a safety plan is developed, documented and appropriate to the individual circumstances of the team, and that the team complies with the safety requirements of South African law and the Event.

You will also need a Battery Officer to be responsible for liaison with Event Officials and emergency services in the event of a battery incident. The Battery Officer should have a thorough knowledge of the battery system and the risk and remedies involved, have control of all the appropriate safety measures, and have access to the appropriate equipment (including that required for containment and disposal of hazardous waste). In conjunction with the Safety Officer, the Battery Officer must ensure hard copies of Material Safety Data Sheets (MSDS) for the relevant battery technologies utilised are available in English, for non-English speaking teams, also in the native language of the team.

You will also need a Team Director to be responsible for liaison with Event Officials and organisers in the event of your team being involved in a serious infringement. The Team Director is usually someone senior with experience and is the only person that the



Team Manager reports to.

Note that the civilian driving licenses of solar car drivers will be inspected and verified by the event organisers as part of the scrutineering process (see Sporting Regulation 1.19.6) so make sure your drivers bring their driver's license!

Finally, participation of persons under the age of 18 (as of Tuesday 19 July 2022) is not encouraged. Further information regarding this is available in Sporting Regulation 1.19.7.

EXPERIENCE SHOWS THAT SOME TEAM POSITIONS DEMAND AN ATTENTION TO DETAIL THAT IS DIFFICULT TO ACHIEVE WHEN AN INDIVIDUAL TAKES ON TOO MUCH. DUTIES MAY LOOK EASY UNTIL SOMETHING GOES WRONG. IF YOU ARE THE TEAM MANAGER, YOU CANNOT BE THE SAFETY OFFICER OR THE BATTERY OFFICER OR THE TEAM DIRECTOR. THESE FOUR AREAS OF RESPONSIBILITY REQUIRE A PERSON DEDICATED TO EACH.

2. Delivering Your Solar Car and Gear

2.1. How to transport your solar car and all your gear

2.1. It is essential for teams to be organized and transport their equipment and solar car timeously to prevent delays. Factor in some extra time so that a transport delay en route will not become a total disaster. If you choose air freight, do not assume that the battery pack will be allowed to be shipped along with your vehicle.

2.2. Deliveries

2.2.1. Ilanga Cup entrants do not have access to the Red Star Raceway site before Tuesday 19th July 2022. If teams wish to access the raceway prior to the start of the event, they can contact Red Star directly via:

Email: gc@redstarraceway.co.za

Cell phone: +27 76 624 6972

Attempted delivery before the disclosed date will be refused and you may face delays or additional charges from your freight company.

Please note that if a forklift or crane is required, it must be arranged with your freight company prior to delivery. The cost of heavy lifting equipment is a team responsibility.

3. Logistics and Operations

It is essential that all team members are present at Registration, starting Tuesday, 19 July 2022.



3.1. Mobile (Cell) Phones

- 3.1.1. Please contact the Event Office as soon as possible to ensure they have all the correct contact details for your team.

3.2. WhatsApp

- 3.2.1. During the event, we require that all Team Managers download the WhatsApp app onto their mobile devices. WhatsApp is a messaging application that can be installed on both Android and iOS devices. This is the official channel of communication between the organising staff and the teams. This application works with a wireless network connection as well as with local cellular network service providers and guarantees minimal data usage of any kind. WhatsApp can be installed via Play Store for Android and the App Store for iOS.

3.3. Wi-Fi/Mobile Broadband

- 3.3.1. Please ensure that your team has the required connectivity to function during the event. The venue has limited WIFI available on site but is reserved for the event organisers. To find out about reception and signal please contact admin@ilangacup.co.za

3.4. Car Hire (Vehicle Rental)

- 3.4.1. You will need to arrange transport for all your team members. Some important points to consider if you are planning to hire a vehicle/s:
- Most car rental companies enforce a minimum driving age of 21 and/or 23 and occasionally, 25.
 - You are strongly advised to make car rental bookings in advance.
 - Not all car hire companies in South Africa will allow their vehicles to be driven into another province.

4. Driving in South Africa

The Ilanga Cup is held at the Red Star Raceway race track and it is an obligation of your participation that all vehicles operated in conjunction with the event will be driven according to the South African road rules and regulations even if the event will not take place on public roads.

4.1. Fatigue

- 4.1.1. Driving at Red Star Raceway will be long and gruelling even with regular driver swops. One of your biggest risk factors is fatigue and dehydration.

Solar car drivers will be driving long distances and durations so ensure that your team is

in contact with them to check in often if they are completing their stint.

It is mandatory to swap solar car drivers every 2 hours (Sporting Regulation 2.22.5). This is important even if you are near your destination, as statistics show that fatigue related accidents often occur near the end of a journey.

It is also possible for fatigue crashes to happen on short journeys, or near the start of a trip especially when you have been working all night. The way to avoid these issues is simply not to drive if you feel tired or know your concentration is not at its best. It is a good idea to task dedicated drivers within your team who can rest when everyone else is working.

4.2. Speed

4.2.1. South Africa uses the metric system. Distances are measured in kilometres (km) and speed in kilometres/hour (km/h). All speed limits within the Red Star Raceway facility, including access roads, pit lane speed limits or any other indicated by the track marshals, venue or the organisers must be adhered to at all times (this includes solar cars and other team vehicles). This means that lower or higher limits can apply.

Regardless of the speed limit, we hope that you will recognize the importance of driving safely within your capabilities and those of your vehicle and in accordance with road and weather conditions.

4.3. Driving Whilst Under the Influence of Alcohol

4.4.1. The Blood Alcohol Concentration limit in South Africa is 0.0 (BAC). The 2021 Ilanga Cup is considered a 'Dry Event'. This implies that no alcohol consumption will be tolerated whilst engaging in any challenge related duties associated with the event. Infringement might lead to hefty penalties or disqualification (Sporting Regulations 2.3.9).

4.7. Vehicle Roadworthiness

4.7.1. All vehicles (including trailers) driven on South African roads, must be roadworthy, registered and insured. Ensure that your car is in good mechanical condition before you travel.

Check that tyres, brakes, lights, and windscreen wipers are all in good condition and working properly before leaving the car hire company depot, and regularly throughout the journey.

4.10 Photographs

Teams will be allowed to take photographs at dedicated areas around the track. These areas will be discussed with teams during the Team Briefing. Please note that should a Team be caught standing on track to take a photo/video, they will receive a penalty/possible disqualification of the event.



4.12 Drone Requirements

As per the Ilanga Cup Remotely Piloted Aircraft Addendum.

5. Remote Area Travelling

5.1 General Tips

It is important that your team is prepared for travelling through some very vacant towns and isolated areas. Distances between towns vary significantly along the route to and from the venue, with food and fuel not always available at regular intervals.

The weather can be extremely cold dry-sunny days, especially in July. There is also a possibility to encounter some rainy days, so you need to be prepared for all weather conditions.

To ensure that you get the best out of your experience, it is important to thoroughly prepare for your journey. Your safety is important to us.

- Be careful how you pack your vehicles – a loaded roof rack will increase the chance of a rollover.
- Carry plenty of water at least 4 litre per person per day.
- Carry enough food for each person for two days.
- Take a hat, sunscreen, and insect repellent.
- Shake out your shoes in the morning to remove any 'critters' that have settled in during the night.

If for some reason your vehicle breaks down or gets stuck, **STAY WITH YOUR VEHICLE**, and contact the event organisers.

6. Team Preparation Facilities

The event will not be providing facilities for testing of vehicles immediately prior to the event, other than those available at Red Star Raceway (Sporting Regulation 2.9.)

To register your arrival at Red Star Raceway, the Team Manager must please report to the registration desk located adjacent to the pit area.

Pit garages (workshops) will be available from 09:00 am on Tuesday 19 July 2022 to 12:00 pm on Friday 22 July 2022 by which time all vehicles, materials and waste must have been removed (subject to change).

Teams must register with the Ilanga Cup Project Manager upon arrival. The Ilanga Cup Project Manager is in the registration office, adjacent to the pits.

Each team is entitled to a workspace with power (240v 50Hz 10A single phase), light, water & toilet facilities.

Teams may reserve workspaces directly with Red Star in advance (spaces that do not form part of scrutineering or would somehow be used for event related activities).

The storage of vehicles, crates or containers can be arranged within Red Star Raceway directly. Please note that the organisers take no responsibility for any stolen or damaged equipment, personal belongings, or the team's solar vehicle.

The space allocated to each team will include a portion of the paddock in line with each garage which is reserved for a single team support vehicle to be parked in single file.

Additional parking areas are available close by. Crossings may not be obstructed.

It is important to note that camping is permitted at Red Star Raceway. There are several accommodation options close to the track.



Aerial view of Red Star Raceway, Delmas.

6.1 Conditions of Occupancy

- Red Star Raceway Workplace Standards apply to all activities on the site unless otherwise indicated by the organisers; please see standards below:
- The Circuit may only be used between: (as directed by the COC – subject to change)
 - Tuesday - 13h00 - 17h00
 - Wednesday – 08h00 – 17h00
 - Thursday – 08h00 – 16h00
- Red Star Raceway insists that all drivers / participants / passengers in vehicles driving on the circuit complete and sign an indemnity as Red Star Raceway does not accept any responsibility for damage or loss of property before, during and/or after a client's function.

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- Teams are to strictly adhere to a 30km/hour speed limit on all access roads whilst on the property.
- All drivers must wear helmets, the required gear and safety belts in the case of motor vehicles. The marshals will strictly enforce this issue.
- Every person working on site must report to registration office on arrival (adjacent the pits).
- South African road rules apply to access roads within the complex and speed limits must be observed.
- The main gates of the complex will be closed overnight between 19H00 and 06H00.
- Teams may work through the night but must make such arrangements with the organizers and COC beforehand.
- Testing Solar EVs in the car parking areas or access roads is not permitted.
- Access of the racetrack without the permission of the Track Controller is strictly forbidden.
- All rubbish must be placed in the bins. Large items and additional waste can be deposited directly in the facilities provided.
- Cost of any damage or additional cleaning is recoverable from the team concerned.

South African safety laws place strict obligations on every individual. For the health and well-being of others, Health and Safety inspections may be carried out in pit garages by Workplace Safety Inspectors. These inspectors have the power to close any operation they declare hazardous, and issue on the spot fines.

It can be extremely hot at Red Star Raceway, even during the winter season. Please remember to drink plenty of water and apply sunscreen. There are often insects that bite, especially at dusk and dawn – cover up and use insect repellent.

6.2 Use of the Track

A Track Controller and/or COC will be appointed to ensure safe operation of the facility. The track must not be accessed without clearance from the Track Controller and/or COC. Contact with the Track Controller and/or COC can be made through the Ilanga Cup site office.

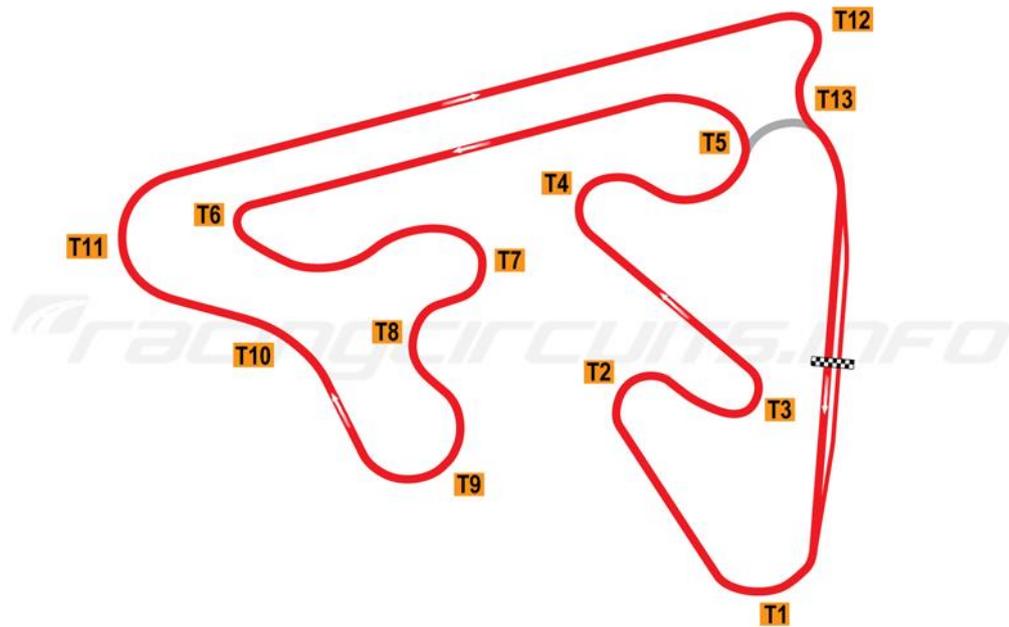
The Track Controller and/or COC will co-ordinate session times for track use. Track capacity is a maximum of 5 solar EV's at any one time. Session times will be limited to 30 minutes during busy periods. (subject to change by direction of the COC/Track Controller)

Solar car drivers must wear their helmet. Strict speed limits will be applied in the Pit Lane.

Track etiquette is important. The track is for testing not racing. If another team wishes to run faster than your car, you must give way.

A disabled car must not be repaired on the track. It must be recovered to the pits. The Track Controller and/or COC will co-ordinate recovery. A driver of a disabled vehicle should wait for recovery in a place of safety.

The track is only to be used for testing under the control and supervision of staff authorised by Red Star Raceway. Misuse of this facility (speeding, driving recklessly on site, driving any vehicle on the racetrack without permission, using the racetrack at night or any other behaviour detrimental to the safety of any person) will result in the removal of track privileges. Event penalties, which may include exclusion, will also be applied. Team Managers are reminded that they will be held accountable for the actions of their team members.



Red Star Raceway Track layout with turn numbers.

7. Road Testing the Solar Car in South Africa

The laws relevant to temporary and conditional registration of motor vehicles may mean that the arrangements for road testing will be different from those we have enjoyed in the past.

Due to the fact that the Ilanga Cup will be rolled out in a track-based format the necessary licenses and applications to drive solar vehicles on public roads in South Africa has not been applied for and therefore no solar vehicle is legally authorised to drive, test, race or simulate scenarios on any South African public roads. Please note that the Ilanga Cup will take no responsibility for any legal steps taken against any trespassers. In the event that an Ilanga Cup registered team is caught up in any related matters as aforementioned, their participation in the event could be reconsidered by the organisers and officials, and may be liable to fines or exclusion.

Further information will be provided as it becomes available.

Please be aware that individuals and teams making their own demands across a range of Federal and Provincial government departments in South Africa without understanding the



areas of responsibility, or the sensitivities of declaring they are planning illegal activities (i.e. 'racing' on public roads) are counterproductive to the process.

Cruiser Class entrants who are saying that this does not apply to them as they have road registration at home, need to understand that the arrangements made by the organiser will only permit use of public roads when the conditions of the relevant licencing authority are met, and any arrangements they may make themselves will not allow testing or racing and are unlikely to allow participation in the Ilanga Cup. Team Managers wishing to discuss this further are invited to contact the Event Director.

Driving an unregistered vehicle is considered a serious offence in South Africa. Teams operating their solar car on public roads without a permit may be prosecuted by police and excluded from the event.

8. Health and Wellbeing

8.1 General Information

We want the Ilanga Cup experience to be a memorable experience for each member of your team. Experience has shown that it is important to be well organised and prepared when you arrive at scrutineering.

Anyone with special medical needs must advise the event on their registration form.

Those individuals who take prescribed medication should carry enough quantity for their stay and remember copies of prescriptions may be requested by customs officers as well as being useful if visiting a doctor. Care should be taken to look after medicines as it may not be possible to replace them in remote areas of the country.

Note that while the event will look after registered participants within laid out specifications in case of accident, the provisions we make for sickness only apply to the remote areas we will be travelling in. Sickness in Delmas should be referred to one of the local medical centres. If in doubt, contact the event office.

It is important that you allow enough time for your team to arrive at Red Star Raceway as it is important to manage fatigue, and that your team members can climatize and get ready for their adventure without having to work 24 hours a day. Consider driver fatigue for both solar car and support vehicles, minimise stress and make sure drivers have proper hydration, nutrition, and rest. Fatigue creeps up on drivers – do not overlook support drivers.

You can certainly eat well in South Africa, but it is particularly important to pay attention to hydration.

Dehydration is a serious hazard, and the Chief Medical Officer suggests that you prepare your body by drinking water at regular intervals during the weeks preceding the event. How much will depend on your body mass, but an average person should consume around 3 litres over a 24/h period.



Ambient temperature water is far better for you than ‘sports drinks’ and the most reliable indicator of a healthy body is that you urinate regularly. Note: thirst is NOT a reliable indicator for the need for fluid, in fact feeling thirsty is your body’s way of telling you that you are already dehydrated.

Personal hygiene is especially important. Experience shows that camping and pit toilets often lead to upset stomach. Washing hands takes on a new importance as this can prevent sicknesses of spreading. Use antibacterial hand sanitizer regularly. Remind those responsible for feeding the team of the importance of hygiene when handling & storing food.

8.2 Health Notes from the Chief Medical Officer

If you are joining us on the upcoming Ilanga Cup, you’ve no doubt already heard that this is an adventure endurance event like no other. And while there is no doubt this will be one to remember, we want you to remember it for all the right reasons!

Health guidelines

Wear sunscreen, drink water: Tar roads, changing tyres, eating on the go – the Ilanga Cup’s biggest health challenge is dehydration. Make sure to refill water bottles regularly, carry enough water in your vehicle, provide your drivers with hydration, and apply sunscreen even on overcast days. Wearing a hat is also highly recommended, as the SA sun can be truly brutal!

Remember to eat and sleep! Sound obvious? Sure, until your third day of long hours and stress. Make sure your team gets a healthy meal, and that everyone – especially those driving – get plenty of rest. Sleep deprivation leads to bad decisions, which can put everyone’s safety at risk.

Fill your scripts: Many towns are small and remote. Fill scripts for essential medication before the event starts, carry your scripts with you in case of emergency, and identify pharmacies if you are worried about running out.

Treat injuries with disinfectant: Hooked on a screw, scratched by a tyre jack? Make sure to clean and cover wounds and avoid infection while exposed to different surroundings.

If all else fails, check in with our paramedics: Paramedics are stationed at the Ilanga Cup daily, and are always stationed near the organisers office and the track.

Safety guidelines

Night owl? Make sure you have a flashlight, and do not trip over those tent pegs in the camp!

Carrying a lot of stuff? We know there is a lot to bring. Store in-car luggage in seat wells and trunks so they do not become projectiles if you suddenly have to hit the brakes.

Follow the rules of the track: When you’re swept up in the excitement of that last loop or that quick tyre change, it’s easy to forget the track rules of the Ilanga Cup format. Be sure to follow traffic/track rules, stay off the road when it is not cordoned off, and keep all your limbs inside your moving vehicles.

When in doubt, check with our safety team: The Ilanga Cup has two safety teams – one for general safety, and one for track safety. Check with them if you are unsure about anything.



8.3 Garbage

It is a good idea to segregate, and deal with, unwanted items appropriately. Please be aware of the actions of your team members.

8.4 Wildlife

We have very few problems with snakes. They are sensitive to vibrations on the ground and will move away. Spiders – be aware. Do not leave boots outside at night and check them before putting them on.

Insects: Insect bites are a common problem and by failing to abide by a few simple precautions, teams might fall ill and need medical attention. Mosquitoes are common, especially around dusk. Wear loose clothing, cover exposed skin, and use a quality insect repellent.

If you do suffer bites, take antihistamines, and use proprietary medication.

9. Insurance

Mandatory insurance arrangements are detailed under Sporting Regulation 1.18.

9.1 Personal Travel Insurance

Participants are advised that a personal travel insurance policy in respect of theft, loss, sickness, and accidents is highly recommended.

If you are planning adventure activities such as travelling in areas outside of the event, it would be wise to check that your own travel insurance policy fully covers these activities. Remember to bring your insurance policy details and emergency contact numbers with you.

9.2 Public Liability Insurance

All registered participants are covered by the Public Liability Insurance organised by the Event. Third Party Property Insurance could be arranged by the organiser on behalf of the entrant where possible (payable by the entrant unless suitable cover can be proven).

9.3 Compulsory Third Party

The Third-Party Bodily Injury Insurance component of Motor Vehicle Registration is payable directly to the Motor Accident Commission at the time of vehicle registration.

9.4 Comprehensive Insurance

Comprehensive Insurance for personal effects, tools, equipment, solar EV's and other vehicles is the responsibility of the entrant.

The South African Insurance Industry is strictly regulated. It is extremely difficult for non-residents to purchase insurance services in South Africa, and it is suggested that entrants seek professional insurance advice in their own country prior to travel.

10. Compulsory Activities

10.1 Team and Participant Registration

Tuesday 19 July 2022: Red Star Raceway

All participants of the team must present and sign-on at the time allocated.

Times allocated between 09H00 and 17H00, Tuesday 19 July 2022

Every individual team member is required to attend registration sign-in at the time appointed for the team. Registration occurs adjacent the pits in the Registration Office and must be completed to allow the solar car to enter the scrutineering area.

Each team member will need to complete the registration form which includes questions regarding any allergies, medical conditions, and medications for the information of the Chief Medical Officer and provide details of an emergency contact person and contact number.

It is important for Team Managers to be clear on who their Team Members are (team, support drivers, media crew, parent supporters etc.)

Solar car drivers are required to produce their civil drivers' licence and Solar car logbook as demonstrated by the presentation of a signed declaration by the Team Manager. Please ensure these important documents come to South Africa.

10.2 Team Managers Meeting

(Mandatory) – Wednesday 20 July 2022.

The venue for the Team Managers meeting will be on site at the Registration Office at Red Star Raceway, Delmas. More details will be communicated closer to the time of the meeting. It is the Team Managers responsibility to find out and make sure they attend the meeting. This meeting is for TEAM MANAGERS ONLY.

10.3 Media Briefing

(Mandatory) – Wednesday 20 July 2022, Red Star Raceway.

All team members and their solar electric vehicle are required to attend.

10.4 Scrutineering Procedural Briefing

(Mandatory) – Tuesday 19 July 2022, Red Star Raceway.

All Team Managers and solar car drivers must attend the procedural briefing prior to the commencement of Dynamic scrutineering.

10.5 Pre-Event Briefing

The Pre-Event Briefing will be held on Wednesday 20 July 2021 at 17H00. This will be directly after Scrutineering. The Team Manager is responsible to ensure that the whole team is present

during this briefing. Teams are advised to be ready by 16H45 to help the organising staff run on time.

10.6 Qualifying

All Solar EV's are required to qualify for the event by undertaking a series of technical inspections and dynamic activities, which are undertaken during static and dynamic scrutineering.

10.7 Static Scrutineering

Tuesday 19 July 2022 at 13H00 – 17H00 at Red Star Raceway.

Wednesday 20 July 2022 at 08H00 – 17H00 at Red Star Raceway.

Scrutineering times are allocated by draw and announced on the Official Notice Board and online at 12H00, Tuesday 19 July 2022. It is the Team Manager's responsibility to check the time allocated.

It is a requirement that all teams plan their attendance and prepare to present themselves to Scrutineering at the time allocated.

The purpose of the Scrutineering process is to confirm the vehicle presented is the vehicle described in the documentation, that the regulations and design requirements have been met and the minimum safety standards achieved.

It is important to arrive on time for registration – if you miss your time you will miss your allocated scrutineering time. The Chief Scrutineer may allocate a new time, however this may compromise the opportunity of re-presentation, should any problems be discovered.

If you are unable to make your scrutineering time, please let the event officials know as soon as possible.

10.8 Static Scrutineering Process

Static scrutineering is separated into two parts – array/top shell on and array/top shell off.

Key components of your vehicle may be marked and verified at different stages of the event. It is important that all your sponsor signage is on your vehicle prior to scrutineering so that these markings can be made.

Support vehicles, safety equipment and communications will also be inspected at scrutineering (Sporting Regulation 2.7 and 2.12).

All solar car drivers must accompany their solar car and team engineers during each scrutineering stage. This is to ensure that all drivers are aware of every component of the vehicle and accepts the risk of driving the solar car.

The Team Manager is responsible for the number of team members present at any time. This number includes any drivers, technical advisors, and team media representatives.

We ask that you do not go into the areas which are closed off due to health and safety requirements.

Static scrutineering can be a long process, taking several hours. While every team member is required at registration, the whole team is not required to be present for all of that time: your Team Manager, interpreter (if required) and key team members need to be present at all times (details in Sporting Regulation 2.12).

Problems?

- It is not the aim of the Chief Scrutineer to find fault. The onus of compliance is with the entrant.
- Depending on the nature of the problem, non-compliance penalties may be issued, or an opportunity may be provided to correct the problem and re-present. Re-inspections will occur throughout the Scrutineering process at allocated times but is at the sole discretion of the Chief Scrutineer.

10.9 Dynamic Scrutineering

Wednesday 20 July 2022 at 08H00 – 17H00 at Red Star Raceway.

Solar cars that pass the Static Scrutineering inspection may move on to Dynamic Scrutineering which includes a speed test, brake test and handling test and includes timed lap to determine starting positions.

A mandatory briefing for Team Managers and Drivers will be held before the session commences.

11. During the Event

11.1 2022 Ilanga Cup Time (Event Time)

To ensure that consistent timing applies across the event we will operate on GM+2 / CAT time for the duration of the whole journey.

11.2 About the Track

The Ilanga Cup is held at Red Star Raceway, Delmas. It is essential that the track rules and any conditions imposed by the organisers and officials are observed.

11.3 Accommodation

Overnight camping accommodation will be provided by the event organisers for the duration of the event and will be subject to all Covid-19 safety protocols, as well as dinner arrangements on allocated nights.

11.4 Personal Equipment

It makes sense to carry only basic camping and cooking requirements.

Take a small tent, warm sleeping bag and light mattress – it is not uncommon for it to be cold overnight. Bring suitable clothing, noting that there will be varying weather conditions. It can



be very cold in the mornings and during the day, but extremely cold during the night. Having your own cutlery, plates and mugs will avoid the need and use of disposables.

Essentials will include a small torch and spare battery, insect spray and personal toiletries. Personal hygiene is particularly important.

Nonessentials might include a light-weight camping stool or chair.

Communal needs will include cooking equipment in enough quantities for the size of your team, and facilities for washing and keeping the camp clean and tidy. Plastic buckets and bowls for washing up (do not forget the washing up liquid and tea towels).

11.5 Water

Experience shows that it is a good idea to carrying drinking water.

11.6 Provisions

The type and amount of food and drink required will depend on the personal preferences of your team.

Red Star Raceway has a fully functioning restaurant on site that will be able to provide for the basic needs of the teams. More information regarding the details of the restaurant provisions will be made available closer to the time of the event.

Refrigeration, food handling and storage should be part of your team safety plan. Ice may be replenished from restaurant/kiosk but be aware that if you are the fourth or fifth solar car team to visit that day, supplies may not be guaranteed.

11.7 Fuel

Fuel (diesel, petrol, and LPG) is available in close proximity to the venue. The prices in South Africa are regulated and only small differences will be experienced between coastal and inland areas. It is imperative that your team arranges all the needed resources before arriving at Red Star Raceway for admission to the venue and registration.

11.8 On Track Behaviour and Safety

No team would confuse the Ilanga Cup with mainstream motor racing, and participants are reminded that the event uses a private racetrack, and the regulations demand compliance with all venue and track regulations.

The Ilanga Cup takes your safety seriously and will not hesitate to impose event penalties on any team not behaving in accordance with normal event protocols.

11.9 Tracking

Your solar car will have been fitted with a data logger during scrutineering. In normal circumstances, no further action is required. Note that the 'box' remains the property of the Ilanga Cup.

11.9 Communications

See Sporting Regulation 2.8.

11.10 Event Finish

The event ends at 16h00 on Thursday 21 July 2022. Teams who are busy with their lap when the event time ends at 16h00, will be allowed to complete their lap and the km's gained will be added to their final score.

12. Red Star Raceway

The event will establish an operational base at Red Star Raceway, Delmas. The Solar car will be held in the pit lane to allow time for team members to take their places on the finish line. Each team will be given about 15 minutes for photographs.

The Solar car will then be subject to final scrutineering.

Other activities such as Cruiser Class practicality judging will be held at the finish line and further details will be announced closer to the event.

12.1 Awards Ceremony

The Awards Ceremony will be held on Thursday 21 July 2022. (see Sporting Regulation 3.6)

Teams are encouraged to wear their team uniform or National Dress. Doors open at 16H00 event time. Remember to bring any team shirts you may wish to trade with other teams.

Further details concerning the venue will be advised.

12.2 Pack Down

Your containers and crates may be delivered to the official pack down area from Tuesday 19 July 2022. Please note that Team Managers are responsible for any contractor they invite on to site, as care needs to be taken to minimize any damage to the ground.

12.3 Rubbish/Unwanted Items

Please plan to minimise your waste.

An area will be put aside for the deposit of any items which may be useful to others and, depending on the nature of the items, they will be passed on to help other community groups.

Separate arrangements will be made for the disposal of hazardous substances. Please contact site manager or event HQ.