



# Participant Information Kit

**Preliminaries and Finals**

**27 & 29 Sep 2010**

## Smart Car Race India 2010



Dear Participant,

Welcome to the racing event of IISc-Freescale Smart Car Race-2010 happening at Indian Institute of Science, Bangalore.

In its an endeavor to provide a hands-on experience on next-gen automobile tracking to the students of engineering institutes across India. Freescale Semiconductor India in collaboration with CEDT, Indian Institute of Science (IISc) is organizing for the first time in India, the *Smart Car Race competition* developed to inspire and support students in engineering disciplines, to develop smart cars that can automatically identify the track and run.

Through the University programs, Freescale assists and enable graduate students from engineering institutes to learn topics, conduct projects and gain experience using Freescale technologies. We value this opportunity to work with the rising stars in academia, interested to develop next-gen smart cars.

We would like to take this opportunity to express our heartfelt appreciation for your active participation in the IISc-Freescale Smart Car Race - 2010 happening on 27<sup>th</sup> and 29<sup>th</sup> September 2010 at Indian Institute of Science (IISc), Bangalore.

We wish you all the very best for the preliminary round on 27<sup>th</sup> September 2010 and for the final race on 29<sup>th</sup> September 2010. Please find below a detailed Information Handbook to assist in your participation and stay.

Sincerely,

*K Muthukumar*

*University Programs,*

*Freescale Semiconductor India Pvt. Ltd.*

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## Accommodation Details

Participants are suggested to refer to the guest houses and serviced apartments given below as likely options for accommodation while you are in Bangalore to participate at the Smart Car Race - 2010. They have been indicated based on proximity to the airport, bus stand, railway station and price.

Sl. No.	Name of the Guest House / Lodge	Address	Phone / Contact	Room Tariff per night	Distance from Airport (in Kms)	Distance from Majestic / Central Railway Station (in Kms)	Distance from Cantonment (in Kms)	Distance to IISc (in Kms)
1	The Green Path	32/2, New BEL Road, Seenappa Layout, Bangalore - 560 094	080-4266 4777, +91-93797 95197	Rs 2000 (for 3 persons) Rs 1500 (for 2 persons)	25	12	6	2
2	Sree Nandanam Residency	#11, Gokul I Stage, I Phase, Next to LIC Office, Yeshwanthpur Main Road, Mathikere, Bangalore - 560054	080-4092 6909	Rs 750 (for 3 persons)	27	12	6	2
3	Ujwal Residency	#50, Yeshwanthpur - Mathikere Main Road (Next to IOC Petrol Bunk) Yeshwanthpur, Bangalore - 560022	080-4097 4573, 4097 4574, 4097 4575, +91-99861 31989	Rs 600	27	12	6	2
4	Sri Akshaya Deluxe Lodges	No. 4, Old No. 24, 11th Main Road, Gokul 1st Stage, 1st Phase, Yeshwanthpur, Bangalore - 560054	080-23470128, +91-93792 05930	Rs 550 (for 3 persons)	27	12	6	2
5	Kaveri Deluxe Lodge	#19, SNR Plaza, 1st Main Road, Yeshwanthpur, Bangalore - 560 022	080-2347 0550, 2347 0551	Rs 600 (3 persons)	28	12	6	1
6	Sri Prabha Deluxe Lodge	#366/14, NRN Complex, Opp. Karnataka Bank, Behind RTO Complex, Yeshwanthpur, Bangalore - 560022	080-2357 2764, 2357 2765	Rs 450 (3 persons)	28	12	6	1
7	I Real Residency Lodge	29/2, 4th Main Road, Near MS Ramaiah College Bus Stop, Mathikere, Bangalore - 560054	080-4127 5500	Rs 550 (for 3 persons)	26	14	6	2
8	Veekay Hotel	Dr. Ambedkar Nagar, Malleshwaram, Bangalore.	080-2337 8601, 94485 94485	Rs 600 (for 2 persons)	30	10	8	2
9	The Basil	8, Sampige Road, Malleshwaram, Bangalore	080-23315123, 23464353	Rs 1600 (for 2 persons)	30	10	8	2

You are encouraged to make the room reservations by referring to the above given contact details. Ideally, please reserve your rooms 10 days in advance. Since the preliminary round is scheduled for 27<sup>th</sup> September 2010, you are advised to plan your arrival so as to reach Bangalore by the evening / night of 26<sup>th</sup> September 2010.

*Please note that, after your arrival at Bangalore, there is no transport arrangement for pickup and drop of the participants to the Hotel. Participants are suggested to make their own arrangements for transport after reaching Bangalore and in addition, for commuting between the hotel and the event venue (IISc). Relevant details for the same are given in the next set of pages to come.*

**After arrival at Hotel / Lodge:**

- Quote your reservation / reference number in case if provided while making the room reservation
- Please present your Institute identity card for room allocation
- Please share rooms to optimize on your stay expenses
- Rooms reservation, ideally has to be from 26<sup>th</sup> to 29<sup>th</sup> September 2010 (3 nights) so that, you could check out from the hotel on the day of the finals
- Participants are expected to be on time at the venue, for the Preliminary round and the final
- Participants have to make their own arrangements for reaching the venue (IISc) from your place of stay. Teams are expected to be present at least an hour in advance before the start of the agenda on days of 27<sup>th</sup> and 29<sup>th</sup> September 2010.
- All incidentals (e.g. laundry, telephone calls, room service for food and beverage) along with the room tariff has to be borne by the participants. If a participant wishes to add to his / her stay (before or after the finals event), you could inform the hotel well in advance.
- Students should possess all the bills or invoices (in Original for onward Journey and photocopy for return journey) for claiming reimbursement from respective institutes, in case if that's being supported by the institute.

## Travel Information

### Language:

English, Kannada, Hindi and all South-Indian languages are spoken and understood in Bangalore.

### Coming by Flight?

**Bangalore International Airport (BIA)** is situated in the northern part of Bangalore. The airport operates daily flight load for all the major sectors of India. Terminal II is for Arrival of Domestic Flights.

### How to reach the Hotel from Airport?

**Taxi:** You can hire a BIA authorized taxi (includes MERU, Easycabs, KSTDC) from taxi lane situated outside (on left handside corner) while you are exiting the departure terminal of the airport.

These taxies provide point-to-point taxi services for various destinations of Bangalore City, where you would like to travel. The charges could be around Rs. 450 for reaching the hotel / lodge\* (given in this doc) and are located at a distance of ~30kms from the Bangalore Airport.

**Bus:** BMTC operates Vajra Volvo buses from the airport to strategic locations across Bangalore city. They are available at frequency of 10-15 mins and would be optimal and ideal for students. There's a separate BMTC bus stand at the airport. The charges could be around Rs. 150/- to reach the places of stay given in this document. Students are advised to avoid taxi drivers / touts who approach you during the exit from the building, as there could be overcharging.

**\*Please Note:** Direct the driver to the hotel address as given in this document. Please collect the landmark / relevant details from the hotel and have it handy in your safe arrival at the hotel

### Coming by Rail?

From **Bangalore City Railway Station / Bangalore Cantonment Railway Station / Yeshwanthpur Railway Station:**

**Auto:** Get off at the Bangalore City Railway Station, the main railway station in Bangalore, where most trains terminate. Exit the station through platform No. 1 and take an auto from the auto queue about 50-100 meters from the building. You can also take prepaid Auto's by paying a nominal amount of Re. 1 as advance at the Pre Paid Auto Counter located outside the main entrance of the Railway Junction. Pay by the meter, plus extra charge for luggage.

Hotels are at a distance of about 10 kms from the Bangalore Cantonment Railway Station and charges are approx Rs. 100 and about 6-7 kms from Yeswanthpur Railway Station and charges are approx Rs. 50 by Auto.

### Coming by bus?

Kempegowda Bus Stand (Inter-State) is the Central Bus Stand located opposite to the Bangalore City Railway Station, 24-hour hub of buses plying all over Karnataka and other states. Get off at the Kempegowda Bus Stand, the main bus stand in Bangalore. Autos are available outside the bus stand and charges are approx Rs. 120/-

## Contact Information

Name	Contact Number	Help
Ravindra Babu T G	0-9620 207537	On the entire event
K Muthukumar	0-97411 17343	On the entire event
Smart Car Race 2010 (Office)	080 – 4098 8582	On the entire event

### Prominent City Taxi operators and their contact details:

EasyCabs	080 - 4343 4343
Meru	080 - 4422 4422
KSTDC	080 - 4252 5555
Cel Cabs	080 - 6060 9090
SPOT City Taxi	080 - 2551 0000

## Venue

Sports Activity Center (SAC), Gymkhana,  
Indian Institute of Science (IISc),  
Yeshwanthpur Main Road (Beside the skywalker)  
Bangalore - 560 012.  
**Ph:** 080 – 2293 2257, 22932846



## About the venue

IISc Gymkhana is one of the oldest Gymkhana in Bangalore. It is located in Indian Institute of Science campus which is situated in the north-western corner of the city near Yeswanthpur. It has world-class sports and recreational facilities.

## Meals

Meals will be provided during the Preliminary round and the finals (27 Sep 2010 and 29 Sep 2010) of the Smart Car Race India 2010. Students need to take care of their dinner on 27 Sep and there won't be any food and beverage arrangements on 28 Sep 2010. Breakfast arrangement is made on 27 Sep and 29 Sep from 7:00 AM to 8:30 AM.

## Dress Code

### [On 27 Sep 2010](#)

Formal attire

**Men** > Formal attire can be described as button-down shirt (no tie) and slacks

**Women** > Executive attire, traditional salwar-kameez or churi-dhar

### [On 29 Sep 2010](#)

**Men** > Business casual attire with competition t-shirt, that would be given on 27 Sep 2010

**Women** > Business casual attire with competition t-shirt, that would be given on 27 Sep 2010

## Registration

Upon arrival at the Sports Activity Center of IISc Gymkhana, participants should go to the Reception Desk for the registration process.

Once registered, participants will receive identification tags with your team numbers and a kit containing agenda, Feedback form, Event's information, speaker profile, competition t-shirt and the Briefing book for the event. Registration has to be completed latest by 8 AM since the event would be scheduled to start from 8-30 AM onwards.

After registration, teams can place their cars with the identify tag at the space provided near the track. They can then take a seat in the auditorium for the inauguration event. Please refer to the agenda of events which you would receive along with the Participant kit at the venue.



## Smart Car Race - 2010

### AGENDA\*

**Sports Activity Center, IISc Gymkhana Campus, Bangalore**

**27, 29 Sep 2010**

27-Sep-10	
07-00 AM	Registration and breakfast
08-30 AM	Inauguration – Welcome address
08-45 AM	Race briefing
09-00 AM	Preliminary Racing
11-30 AM	Break
11-50 AM	Preliminary Racing continues
01-30 PM	Lunch
02-15 PM	Preliminary Racing continues
04-00 PM	Break
04-20 PM	Preliminary Racing continues
06-30 PM	Judges' discussion
07-00 PM	Wrap-up and conclude
28-Sep-10	
Trial run the cars for the finals of the competition*	
29-Sep-10	
07-00 AM	Arrival and Breakfast
08-30 AM	Ground-setting for the Finals of the competition
08-45 AM	Final racing - Session 01
10-30 AM	Break
10-45 AM	Final racing - Session 02
01-00 PM	Lunch
01-45 PM	Final racing - Session 03
03-30 PM	Break and Judges' conference
04-00 PM	Revisit to the Finalists teams
04-30 PM	Felicitatation and Award Ceremony

\* Tentative Agenda subject to change. Kindly check for an updated agenda on arrival. In addition, the venue shall be kept open on 28 Sep 2010 with provision for students to test their cars on the racing track. They could also make use of the slots

## Racing Rules for Preliminary and the Final

Preliminary and the final competition use same racing rules. Racing teams of each group will be ranked separately.

### 1. Rules for Preliminary Competition

- a. Two trial runs will be allowed to tune the parameters of racing car system
- b. There will be two identical racing tracks for the preliminaries on the racing field.
- c. The racing team's racing order will be determined by drawing lot.
- d. In each round, racing will run for two laps on the racing track. Time will be calculated when the racing car leaves the starting line. After running for two laps, racing cars should stop on the racing track within 1 meter from the starting line. Otherwise, 1 second will be added to the racing time of the car.
- e. The shortest time of the two laps will be taken as the final time of the racing car in the round.
- f. Based on the performance (in preliminaries) of participating teams, the organizing committee of the event will select certain percentage of racing teams to participate in the final.
- g. The technical judgment group will perform on-site technical inspection for all the winning cars eligible for the final. If any changes in hardware is noticed, qualification will be cancelled
- h. List of finalists will be submitted by the referee group to the organizing committee of the event for approval and announcement.
- i. After preliminaries, car prototype and software can be improved (compliant with competition rules) but changes should be reported in the Technical Update Sheet.

### 2. Rules for Final Competition

- a. Two trial runs will be allowed to tune the parameters of racing car system
- b. There will be only one racing track on the racing field.
- c. The racing teams eligible for the final will be ordered based on their scores in preliminary and compete in reverse order of their scores in preliminary.
- d. The racing track for the final is different from that used for preliminary in shape and will be larger
- e. Each finalist can only compete for one time.
- f. In each round, racing will run for two laps on the racing track. Time will be calculated when the racing car leaves the starting line. After running for two laps, racing cars should stop on the racing track within 1 meter from the starting line. Otherwise, 1 second will be added to the racing time of the car.
- g. The shortest time of the two laps will be taken as the final time of the racing car in the round.
- h. Score of the preliminary will not be included in score of the final; it is used only to determine racing order in final. Racing teams failing to participate or appear in time will be disqualified from the final.

For more details of the rules and regulations during the preliminary and final race, refer to the link on the competition website,

[http://cedt.iisc.ernet.in/smartcar/Smart\\_Car\\_2010/Smart\\_car\\_Rules\\_and\\_Regulations.doc](http://cedt.iisc.ernet.in/smartcar/Smart_Car_2010/Smart_car_Rules_and_Regulations.doc)

## Certain Guidelines during the Racing

1. Each team will have to carry their own laptop/s for programming the car prior to the racing. There won't be any provision for getting a PC / laptop at the venue
2. Each team will be provided with a space to keep their cars in the designated slots immediately after their registration.
3. Teams have to carry Technical reports (both in hardcopy and softcopy loaded on their laptops).
4. There would be adequate charging points to charge their batteries
5. There would also be a stall setup for teams to get their smart car's batteries in exchange for the fully-charged ones. This is only for teams whose cars' batteries may have got totally drained out and hence it is requested to make responsible use of this facility.
6. Teams should strictly abide by the rules and regulations as put on the competition website. There would be provision for dry-run for teams shortlisted for the finals on day of 28 Sep 2010 between 09:00 AM to 03-00 PM. There would be 02 racing tracks setup for dry-run and will be made available for finalists teams shortlisted for 29 Sep 2010
7. Teams have to get their own set of supporting software for executing their racing
8. The time taken for every lap of the race shall be calculated by the sensor setup with the racing track.



## Do's & Don'ts at the venue of IISc, Bangalore

- Students have to compulsorily carry and present their institute identity cards at the security check for gaining entry inside IISc campus
- Students have to follow the direction signages for reaching the sports activity center from the main gate of the IISc gymkhana campus.
- Students have to strictly follow the guidelines briefed by organizing committee and at registration counter setup at the venue
- Registration and other formalities at the counter, IISc gymkhana is a must and should be done in time
- Students have to strictly follow the timelines as per the agenda and co-operate in transition from one racing team to the other at the venue.
- Students should not loiter around the campus that could lead to security problems. You are not allowed to gain access into secure areas disrupting the work at IISc. Anybody found doing could land up in disqualification from the competition
- Usage of mobile phones during the event, inside the main hall is strictly prohibited



## All about Bangalore

Bangalore is a city of contrasts, going by several other aliases: India's Silicon Valley, Pub City, Shopper's Paradise, Garden City, Air-conditioned City, Gourmet's Delight, Pub Hopper's Paradise and Shopper's Hot Spot. Bangalore has been extolled in a dozen ways. The city plays host to several international IT companies, public sector enterprises, defence organizations, and reputed educational and research institutions like IISc and IIM-B, also is a very good tourist destination.



### Weather Forecast

The climate of Bangalore is moderate and pleasant and the current winter is pretty breezy with considerable cold and occasional showers. Temperatures at Bangalore ranges from 19° C to 24° C. Warm clothes are suggested to be carried along with, which are a good alternative to beat the moderate cold in Bangalore.



### Emergency Help line numbers (Prefix 080 – for calls from mobile phones):

Ambulance – 102, 108 (EMRI)

MS Ramaiah Hospital – 2360 8888, 2360 9999

Columbia Asia Hospital – 4179 1000

HOSMAT Hospital – 2559 3796 / 2559 3797

Manipal Hospital – 2521 1200 / 2526 8901

Police – 100 / 103 / 2294 2570 / 2253 0284

Fire – 101 / 2297 1600 / 2297 1550

Railway Enquiry – 131 / 132 / 2220 0971

Talking Telephone Directory (Just Dial) – 2333 3333



### Places of Interest

- **Vidhana Soudha**
- **Bangalore Palace**
- **ISKCON Temple (International Society for Krishna Consciousness)**
- **Lalbagh Gardens**
- **Other attractions :** Cubbon Park, Visveswaraya Industrial and Technological Museum, Karnataka Chitrakala Parishath, HAL Heritage Centre and Aerospace Museum, Venkatappa Art Gallery, Prasanna Anjaneya Temple, Sankey Boat Club, Bull Temple and Infant Jesus church



### Shopping Attractions

- The Forum – Shopping Mall housing multiplex on Hosur Road, Bangalore
- Bangalore Central – Shopping Mall on MG Road, Bangalore
- Garuda Mall – Shopping mall housing multiplex on McGrath Road, Bangalore
- Mantri Square Mall – Positioned as one of largest malls in Asia and is located in Malleswaram which is pretty close to IISc