

PRESS RELEASE TEAM AVERERA FOR SHELL ECO-MARATHON 2018



The Official Contingent of Team Averera Representing India and IIT BHU at Shell Eco-Marathon Asia, 2018



Team Averera with the Director, IIT BHU and the Coordinator CERC.

Pos.	Country	No.	Team	Attempts	Best Result
1	China	301	HUAQI-EV <small>Guangzhou College of South China University of Technology</small>	3	511.0 km/kWh
2	China	302	BIT ECONOPOWER CLUB <small>Beijing Institute of Technology</small>	5	355.5 km/kWh
3	India	303	TEAM AVERERA <small>Indian Institute of Technology - Varanasi (IIT Varanasi)</small>	5	349.6 km/kWh
4	Indonesia	304	SEMAR PROTO UGM INDONESIA <small>Universitas Gadjah Mada</small>	3	269.7 km/kWh
5	Indonesia	305	BATAVIA GENERATION TEAM <small>Universitas Padjadjaran</small>	3	256.0 km/kWh
6	United Kingdom	306	GIRTON GRAMMAR SHELL ECO MARATHON TEAM (GGSEMT) <small>Girton Grammar School</small>	3	243.8 km/kWh

Picture of the Leader board from Shell Eco-Marathon Asia, 2018 showing Team Averera placed at third position.

Team Averera a group of 25 automobile enthusiasts working under Centre for Energy and Resources Development (CERD), IIT (BHU) has secured the 3rd place in battery electric prototype vehicle category in the recently concluded edition of Shell Eco Marathon Asia 2018 . Shell Eco Marathon Asia challenges engineering students across Asia to design, build and test their hyper energy-efficient vehicles at Changi Exhibition Centre, Singapore hosting more than 128 teams from all over Asia.

The team told us that “The journey to the invention of India’s most energy-efficient vehicle has been full of hardships and we have been very fortunate to receive full support from our Director Professor Rajiv Sangal and the Coordinator of CERD Professor A.S.K. Sinha. Our mentors Professor A.K. Kapoor have very well guided us from Electrical Engineering Department and Dr S.K. Panda from Mechanical Engineering Department of our institute”.

Centre for Energy and Resources Development was established under Frontier Areas of Science & Technology (FAST) scheme of MHRD aims to undertake world-class research that integrates the scientific, technological, economic, policy and socio-technical aspects of energy to deliver key tools needed to enable, enhance and accelerate the transition toward sustainable energy systems.

Team Averera with its latest prototype Alterno 3.0 secured third position in battery electric category with an on-track efficiency of 349.6 Km/KWh by doing crucial modifications to their prototype with carbon fiber monocoque chassis, implementation of neural networks for efficiency optimization, etc. being a few among many others. The team also earned the honour to hold the national flag and stand forefront on the track in the opening ceremony.

Team Averera won the off-track award for travel safety due to their foresightedness and impeccable planning for travelling and vehicle shipping, a special mention was also announced for the team for helping several other teams in the event.

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The work done by Team Averera was nominated to be presented at Rashtrapati Bhawan in Festival of Innovation and Entrepreneurship 2018.

They has worked meticulously on every component of their vehicle with utmost care and proper research. They managed to keep the total prototype weight under 40 kg only. The drag coefficient of the prototype is expected to be lower than many on road cars. They have a self-made BLDC motor controller and they were proud say that they are the only team in India to have achieved this. Bringing the technology used in their vehicle after creating a benchmark of efficiency in an international competition to the market is somewhat that they are thriving for. The team says that “We believe that electric vehicles made on the concept of our powertrain will prove to be more useful for the Indian customers”.