TECHNICAL VISIT REPORT- ELECTRIC VEHICLE, EXPO

Venue: Science City, Kolkata

Date: 22nd April 2022

Objective: Technical visit to Electric vehicles (EV), EXPO

Introduction: The discovery of Lithium-ion batteries has come a long way in revolutionizing the world of portable electronics be it a laptop, a handheld camera, or even a high-end Tesla Model S with a top speed of 200 mph.

The concept of a rechargeable Lithium-ion battery was first described by **Stanley Whittingham**, an achievement for which he would share the 2019 Nobel prize in Chemistry at Stockholm.

With increasing global warming, electric vehicle seems to be the only feasible option towards a greener, cleaner & better world by reducing the greenhouse gas & its effect which offers the following distinct advantages:

- Cleaner environment.
- Lower running costs.
- Better driving experience.
- Government funding.
- Reduced noise pollution.

Participation: The EXPO was attended by the faculty & staff alongwith the students of The Department of Electrical Engineering B. P. Poddar Institute of Management & Technology:

Faculty:
Dr Nandita Sanyal, HoD,
Prof. Tapan Kumar Basu, Adjunct Professor,
Assistant professors, Dr Sutapa Mukherjee,
Madhumita Kundu Mondal,
Sujata Saha,
Anushree Roy

Technical Assistants
Nihar Goswami
Sajal Goswami
Dilip Pal

Students:
1st,2nd &3rd year: 67 Nos

Description: The scheduled event, proposed to build a pollution free nation offered a comprehensive market information, an insight into the business opportunities & a platform for networking technical know how about the futuristic market & the emerging trends in the EV sector. The EXPO heightened the awareness & usefulness of the plug-in vehicles including the techno- commercial viability of such options. The event highlighted the profiles of the major exhibitors including the display of various options like Electric car, electric bus, Electric Rickshaws & electric cycles which are being made available for the market.

Take away: The EV EXPO was packed with entertaining & exciting demonstrations on the emerging trends which included vehicle rides & high-performance test drives. Despite the scorching heat, the future techies of our institution were fascinated by the most innovative electric vehicle products & services on display at the EV EXPO.

It was not only an opportunity to potential customers who are looking for greener mobility amid rising environmental pollution & fierce congestion but also served as a **platform for emerging & innovative start-ups for the young & energetic techies from BPPIMT in the field of *e-mobility.***


AN ELECTRIC VEHICLE EXPOSITION
EV Expo
2022
14th
Electric Vehicles Expo
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TECHNICAL SPECIFICATIONS
DRIVE MOTOR AND BATTERY
Battery Type
Lithium Ion (NMC) (Detachable)
Battery specifications
60V 35Ah
Motor Type
DC Brushless Hub Motor
Drive motor
1500 Watts
Motor Controller
3-speed with Regenerative Braking
Charger Type
10 Amp Smart Charger with Over-voltage, Temperature and Short-circuit protection
PERFORMANCE
Max Load
150 kg
Climbing Ability (Gradeability)
15°
Charging time (from flat to full charge)
4 To 5 hours
Range travelled per full charge
100* kms
SUSPENSION
Front
Hydraulic
Rear Side
Hydraulic
BRAKING SYSTEM
Front Side
Disc
Rear Side
Disc
DIMENSIONS AND WEIGHTS
Kerb Weight
Tyre
Tyre Type
Dimensions
Seat Height
740 mm
Wheelbase
1345
Ground Clearance
160 mm
Turning Radius
1.6 m
Color Options
Matte White / Midnight Black
OTHER FEATURES
Drive Modes
3 Modes: Sports (Gear 3), City (Gear 2), Economy (Gear 1)
Display
Colour LCD Display
Front wheel Rim
Cast Alloy
USB Charging for Mobile phone
Available
Security
Anti-theft smart remote lock
IoT Enabled
Yes
Smart Cluster
Yes
ECONOMICS OF USAGE
Power (electricity units) consumed in charging the battery fully
2.5 Units / charge*
Running cost / km
20 Paisa / km*
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FBTech Solar
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Trade Expo 2022
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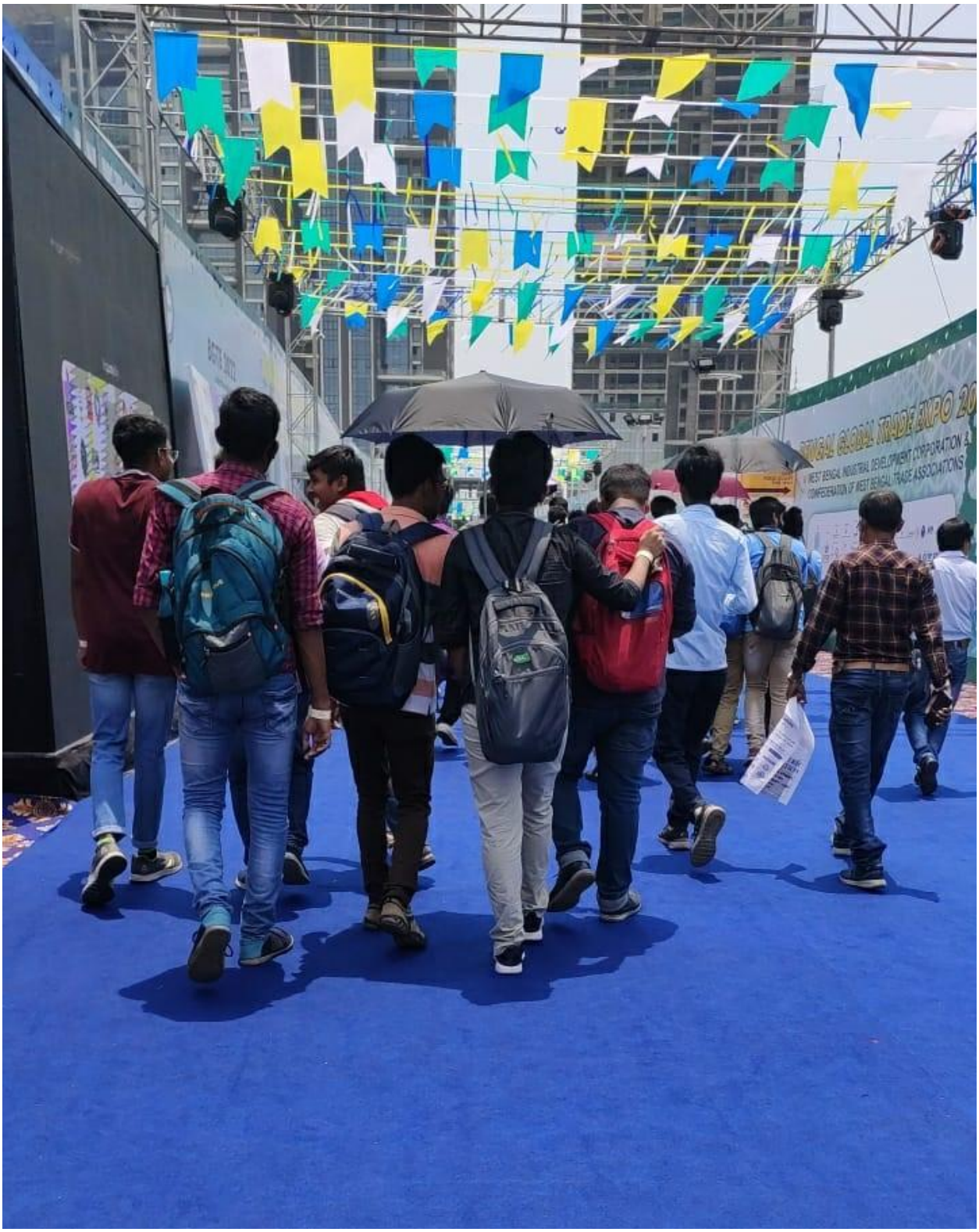
BENGAL GLOBAL TRADE EXPO 20
WEST BENGAL INDUSTRIAL DEVELOPMENT CORPORATION
CONFEDERATION OF WEST BENGAL TRADE ASSOCIATIONS