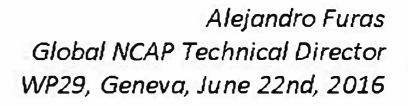


Global NCAP: Safer Cars for India Project Euro NCAP: Quadricycle safety campaign









Research Project: Safer cars for India



Models tested













Renault Kwid







JAN 2016 APR 2016

MAY 2016



Renault Kwid



Global NCAP's Kwid



JAN 2016 APR 2016

MAY 2016

Kwid (I)



18,091 units UNTIL MEEBBA005G1323780 Kwid (II)



Est. 25,000 units FROM MEEBBA005G1323781 Kwid (III)



Est. 5,000 units FROM MEEBBA005G4350297 Kwid (IV)



FROM MEEBBA008G5362695











Renault Kwid (I) - NO Airbags







0.00 max. 17.00 - Adult





23.89 max. 49.00 - Child





Front passenger



Driver

Good
Adequate
Marginal
Weak
Poor





Renault Kwid (III) - NO Airbags







0.00 max. 17.00 - Adult





14.85 max. 49.00 - Child





Front passenger



Driver

Good
Adequate
Marginal
Weak
Poor





Renault Kwid (III) - Driver Airbag







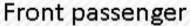
0.00 max. 17.00 - Adult

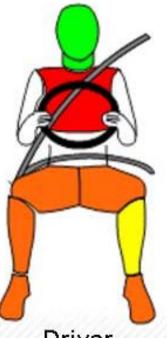












Driver

Good Adequate Marginal Weak Poor







KWID (I) DIC 2015



64 Km/h

KWID (III) APR 2016



64 Km/h



















RENAULT KWID (I)

Maruti Suzuki Eeco





Research Project: Safer cars for India

Summary of Results

RESULTS			(
Hyundai EON	X	\(\alpha\alp	****
Mahindra Scorpio	×		***
Maruti Suzuki Eeco	×		****
Renault Kwid (I)	X		***
Maruti Suzuki Celerio	X		*****
Renault Kwid (III)	X		***
Renault Kwid (III)	√ 1		★★☆☆☆



Research Project: Safer cars for India Summary of Results



RESULTS	3		(
Hyundai EON	×	ಭಾಭಾಭಾಭ	****
Mahindra Scorpio	X		****
Maruti Suzuki Eeco	X		****
Renault Kwid (I)	×		★★☆☆☆
Maruti Suzuki Celerio	X		★☆☆☆☆
Renault Kwid (III)	X	$\Delta\Delta\Delta\Delta\Delta\Delta$	****
Renault Kwid (III)	√1	ಭಭಭಭಭ	★★☆☆☆
W Volkswagen POLO	√2	****	★★★☆☆
₩ Volkswagen POLO	X	ជាជាជាជាជាជា	***
Maruti Suzuki ALTO 800	X	ប្រជាប្រជាប្រ	★★☆☆☆
Ford FIGO	×	ជា	★★☆☆☆
Hyundai i10	X	ជាជាជាជាជាជា	★☆☆☆☆
Tata NANO	X	ជាជាជាជាជាជា	
Toyota Etios	√2	****	***
Datsun Go	X		***
Maruti Suzuki Swift	X		******





General Conclusions - Recommendations

- Global NCAP recommends Indian government to adopt Regulation UN94 (frontal crash protection) as mandatory for all cars.
- Global NCAP strongly recommends a BHARAT NCAP to perform the frontal crash test at 64km/h
- Global NCAP and its members is ready to assist the Indian Government with technical support





Quadricycle Safety Campaign



2016 Quadricycle Safety Campaign

- L7 Category
 - Limits to mass and power
 - Some capable of 100km/h
 - No legislative crash test requirements











- Frontal: 50km/h full width to deformable barrier
- Side: 50km/h 950kg trolley
- Identical to 2014 testing



Aixam Crossover GTR
Petrol, 4 seat heavy quadricycle

AIXAM



Chatenet CH30

Petrol, 2 seat heavy quadricycle

(





Bajaj Qute

- Test variant:
 - Kerb Mass: 440 kg
 - Max Speed: 70 km/h
 - EU type approved
- Country of origin:
 - Produced in India
 - Purchased in Turkey www.globalbajaj.com



Bajaj Qute





Results

Rigid steering wheel to chest contact

Chest compression of 49mm

lates to ~50% risk of AIS3+ injuries



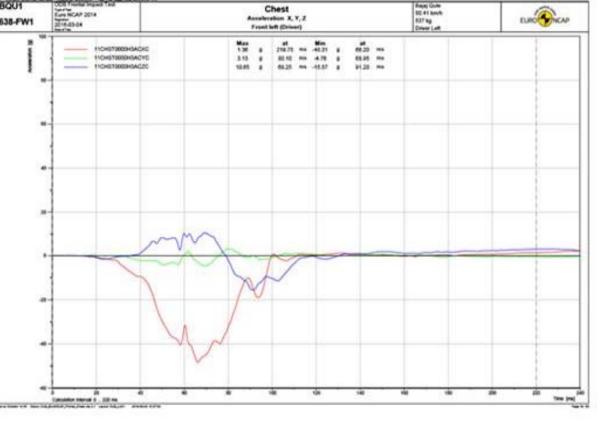
3.2 Driver's Chest

3.2.1 Steering wheel contact

Modifier = -1

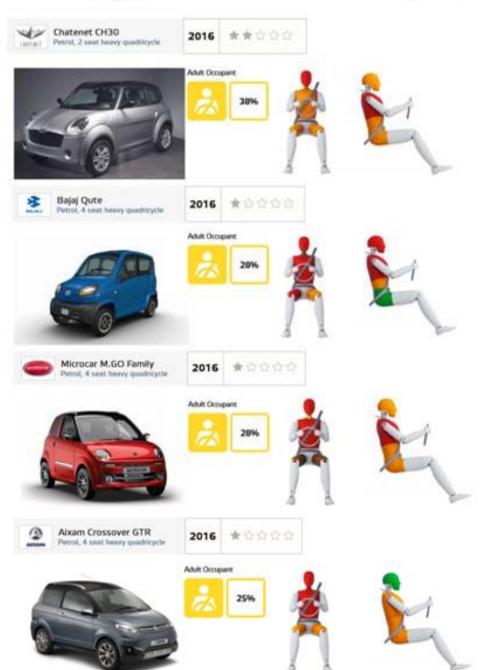
From the high speed film and dummy chest traces it appears that the dummy chest contacted the lower section of steering wheel rim at around 60ms. There is no spoke in this area and the wheel did not show any permanent deformation due to the chest contact.







2016 Quadricycle Safety Campaign



- All quadricycles performed poorly
- Fundamental safety concerns
 - Some showed poor structural integrity
 - Dummy readings indicated a high risk of fatal or serious injuries (red body region in illustrations)
- Improvement is not impossible!
 - Urge quadricycle manufacturers to invest in safety
 - Call for greater safety regulation of quadricycles
- Euro NCAP to try to engage more closely with manufacturers



Conclusions

- Quadricycles are ill-equipped to deal with the crash risks to which they would be exposed on a given road as part of normal traffic
- While looks continue to be smarter and more appealing, safety performance remains poor
- L7 regulation does not set realistic safety targets for industry





Thank you very much

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