

The Times of India JK Tyres' Mysuru centre will improve driving experience

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Other Tyre Makers Can Also Use Some Of The Facilities

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Mysuru: JK Tyres and Industries Lidon Tuesday said at the launch of their Raghupat Singhamia Centre of Excelence (RPSCOE) at Mysuru that they have invested Rs Lidorore in the tech centre. The company plans to invest anither Rs 30 crore in the centre by 2019 and incresse its staff from 180 engineers, scientists and technicians to 30 by next years.

Employing over 8,000 peo ple across nine plants, 18 Tyres has manufacturing units in Mysuru, Banmore Kankroll, Chennal and Lak sar (Haridwar', 2s also thre plants and R&D unit in Mexico, 1K Tyres, which recently hit a milestone when it has rolled out its 10 millionth ruck/bus radialtyre, said the R&D centre is part of an effor to consolidate all research un der one roof, including direct ingoperations in Mexico.

One of the sources of revenue for its R&D unit will be usage of its NVH (noise, vibration, and harshness) machines by other tyre makers in the country for testing. The NVH technology involved an invest-

With auto OEMs focused o



Tyres technical director Vijay KR Mishra says that their anechoic chamber helps monitor, analyse and lower sound emitted by the engine and tyres.

The NVH machine legis study and modify the noise and vibration in cars, trucks and buses. Our anechoic chambers are echo free and have a sound energy absorption between 99-100%, he says. The anechoic chamber also has a reflected sound pressure level of 10% or less—alow sound pressure level of 10% or less—alow sound pressure level of 10% or which the help of microphones installed on the floor of the chamber.

"We are able to gain maximum sound absorption by lin ing our walls, ceilings, and floor with wedges with sound absorb ing elements and super-soft pan els. We can test, for instance, how much noise is being made by larger patterns in the tread. For instance, earlier, adventure biles and Bullets used to have large geometric patterns on the tyre for that rugged look, but as we researched we found that smaller patterns with less spacing made for a smoother and quieter ride. So the use cases for this chamber are enormous; said a scientist on the floor. The centre is also trying to make over the subject of the control back with silken for bias and radial commercial vehicle tyres.

"This is in line with our earier achievement of developing india's first full silica-based
tyre in 2013," says Mishra. JR.
Tyres aims to reduce its carbon
dioxide emission by 50% by
2019-20, compared to that in
2021-4. The company says one
of its pressing complaints is
the wear and tear on its tyres.

Soas part of its green initiative to improve the lifecycle of a tyre, the R&D centre is also working on nano fillers to improve air improve the tyre is nano fillers to improve air improve the tyre's inner liner compound with high aspect ratio nano fillers to improve air impermeability, which you have a second to the premeability which guards against leakage in tyre pressure, this is 30% more efficient than the regular inner liner. So with higher level impremeability achieved with our air nano fillers, the life of the tyre and fuller difficiency of the vehicle improves. Weareals orsessarching use cases for nano clag carbon nano tube and graphem; said engineers on the floor. An intricate problem for the tyre maker has been how to reduce rolling resistance — the force resisting the free movement of the wehicle—without affecting the mileage and standay one of the estrangest things in the industry that when we reduce the volicie. "It is actually one of the strangest things in the industry that when we reduce the rolling resistance from a chieve a balance was key We have succeeded in bringing down rolling resistance forms [2] kg earlier down to 7.5 kg todag." says Dr R Mukhopadfmya; di