

China Left Elon Musk's SpaceX & Jeff Bezos' Blue Origin with Their New Age Rocket Launch

The Chinese company, LandSpace launched the very first methane-fueled rocket on Tuesday. It has successfully reached the orbit and went ahead in the competition.



Phoenix, Arizona Jul 14, 2023 ([Issuewire.com](https://www.issuewire.com)) - China is making history as one of the commercial Chinese firms, LandSpace has launched a methane-fueled rocket named Zhuque-2. This methane-fueled rocket has been sent to orbit on Tuesday and it is coming to know that it has successfully completed the planned flight.

This methane-fueled rocket has been constructed and developed by the space launch provider company. This rocket took off from China's Jiuquan Satellite Launch Center at 9.00 a.m. This is the second attempt made by the organization. Before this, they launched the rocket in December but couldn't accomplish the initiative. But this time, the rocket has successfully executed and reached the sun-synchronous orbit (SSO) and become the very first organization to do this remarkable job.

On this occasion, China left all the United States-based companies and went ahead in the competition. According to the report, Elon Musk's company SpaceX and Jeff Bezos' organization Blue Origin were

also working on methane-fueled but still, they haven't succeeded in the mission.

Now everyone is trying to develop methane-fueled rockets because it is safer, cleaner, and very much cost-effective. That is space research organizations are trying to develop this kind of rocket. At the beginning of this year, SpaceX tried to launch the Terran 1 rocket but it was an unsuccessful attempt. In this rocket, they tried to use liquid oxygen methane propulsion but couldn't achieve the goal.

With this achievement, China is becoming the most successful country to develop a liquid-propellant rocket. Before this, Beijing Tianbing Technology successfully launched a kerosene-oxygen rocket in April. Their significant creations are helping the country to stay ahead of the competition. The recently launched Zhuque-2 is a rocket that has a two-stage liquid-propellant and different engines. According to the report, the rocket is 49.5 meters in length and has a diameter of 3.35 meters. Along with that, it is also coming to know that the rocket has Tianque-12 (TQ-12) engines. In this engine, there is oxygen methane that can create a force of 268 tons.

Apart from this, there is a second engine with the Tianque-12, which is known as the Tianque-11 (TQ-11). The company has been doing research from the year 2019. And now they are succeeding in the mission. Even now, the company is trying to do more experiments with the rocket and planning to upgrade the rocket with the engine TQ-15A by replacing the TQ-11. This would boost the capability of the rocket and make it even more powerful in every aspect.

A space policy analyst, Rand Simberg has said on the occasion of the success of the Chinese company that 'victory over SpaceX'. He has also said 'With the Raptor and BE-4 engines, SpaceX and Blue Origin remain at the forefront of that technology unless LandSpace has a full-flow staged-combustion engine in that class'.

Now companies are focusing more on methane-fueled rockets because it has a lot of advantages. The Chinese government is providing the option to do experiments with methane-fueled engines because it is much more sustainable and can be reused. It is making the projects even more cost-effective in various aspects. Along with that, now in the modern day of rocketry, space organizations are trying to come up with rockets that are capable of advanced technologies. That is why, they are trying to make such huge changes in their experiments.

Space research organizations are trying to use methane over any other fuel because it has the potential to provide higher sustainability. In the place of methane, scientists could have also used kerosene but the fact is methane reduces the post-recovery cleaning on a large scale. And this can be very much helpful for the engine of a rocket.

After the launch of LandSpace, now Elon Musk is trying to work rapidly on their rockets. On the interest of Musk in methane, Simberg has said 'primarily interested in methane because it can be manufactured from the atmosphere on Mars, from CO₂ and hydrogen via the Sabatier process'. Now SpaceX is trying to achieve a higher level of success with their innovative creation as the Chinese company has taken the lead.

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