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THE TIMES OF INDIA
**Dtd- Wednesday, 20th, February- 2019**
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# This device can do minimally invasive neuro-surgeries

TIMES NEWS NETWORK

**Bengaluru:** In a significant contribution to the field of neurosurgery, a team of city doctors and researchers has come up with an indigenously developed stereotactic frame called 3DR stereotactic system, which helps in performing neurosurgeries.

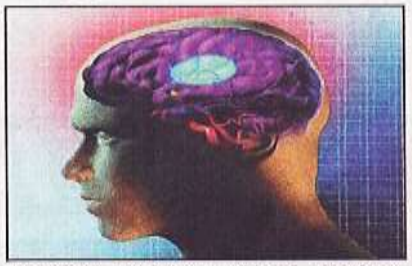
A stereotactic brain surgery is a procedure where a brain tumour is removed or biopsy done using image guidance.

## MADE IN BENGALURU

It also helps in conducting minimally invasive surgeries in cases of Parkinson's disease, pain, epilepsy, movement disorders, cysts and blood clots, doctors said. A specially designed frame fixed to the patient's head guides the surgeon to reach different, select and specific targets in the brain with precision.

"The surgical intervention with this frame makes use of three-dimensional coordinates to locate small targets within the brain and perform procedures on them," said Dr NK Venkataramana, chief neurosurgeon and founder-chairman of Brains Hospital who conceptualised the device.

Bengaluru-based Mahalasa Medical Technology spearheaded by biomedical engineers Sadashiva Bhat and Sharath V Bhat designed and developed the device. "Many such frames are available in the market, but their cost is prohibitive. The 3D arc we developed is an indigenous frame, conceptualised and designed in Bengaluru. Both the hardware and software are from here. It's now available at one-third the cost of imported frames," said Dr Venkataramana.



Taking part in the launch of the device in Bengaluru on Tuesday, Union minister Nirmala Sitharaman appreciated the efforts of the team behind the innovation. "Those who say Make in India is not making much progress should see this innovation. It's a great combination of a life sciences researcher, doctor and entrepreneur — all from Bengaluru — coming together to innovate a device that can help many patients," she said.