

Lab Grown Diamonds

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About Lab Grown Diamonds:

Initiatives:

- The government had brought in is that it has permitted 100 per cent foreign direct investment (FDI) in the sector under the automatic route.
- Gujarat Government is offering 100% exemption on electricity duty for 5 years under the provisions of the electricity act.
- According to Budget 2019-20, the GST rate has been reduced from 18 per cent to 5 per cent.
- Interest subsidy and net SGST reimbursement upto a 100% is also being offered to MSMEs, large and mega players.

Lab-made diamonds:

- Lab-made diamonds are developed from a carbon seed placed in a microwave chamber and superheated into a glowing plasma ball.
- The process creates particles that crystallize into diamonds in weeks.
- The only difference between lab-grown diamond and natural diamond is that instead of digging the earth, it is created in a lab under a machine.

- This tech-based manufacturing directly cuts down the capital and labour-intensive factors of the mined diamond chain and so lab-grown diamonds cost 30-40 per cent cheaper than mined despite being 100 per cent diamond.
- There are **two types of lab-grown diamonds** –
 - **CVD and**
 - **HPHT**
- India particularly specialises and leads in the **chemical vapour decomposition (CVD) technology** that is certified as the purest type of diamonds.
- According to the report, the Gemological Institute of America predicted the total annual sales of laboratory diamonds will be well over \$100 billion in the not too distant future, from about \$20 billion today.
- This segment of the diamond is growing at an annual growth rate of 15-20 per cent.

Surat: Diamond capital:

- Nine out of 10 diamonds in the world are estimated to be polished in Surat.
- Currently, 25-30 per cent of diamond polishing units in Surat service lab-grown diamonds, with 15 per cent of units dealing only in the lab-created commodity.

Source : **PIB**

Source: <https://vajiramandravi.com/current-affairs/lab-grown-diamonds/>

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