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HFCL/SEC/16-17/
November 24, 2016

The Secretary, The National Stock Exchange of India Limited, Exchange Plaza, 5 th Floor Plot no. C-1, Block G, Bandra Kurla Complex, Bandra(East) MUMBAI- 400 051	The Secretary, BSE Limited 27 th Floor Phiroze Jeejeebhoy Towers, Dalal Street, MUMBAI-400 001
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Dear Sir,

Subject: Media Release

Attached please find herewith a copy of press release being issued by our partner ADVA Optical Networking SE, Munich, Germany for cesium primary reference clocks and high performance synchronization units to be used in NFS project.

Kindly take the above on your records.

Thanking you,

Yours faithfully,
For **Himachal Futuristic Communications Limited**

(Manoj Baid)
Associate Vice President (Corporate) &
Company Secretary

Encl.: as above

Oscilloquartz Synchronizes Indian Defense's National Transport Network

***Next-Gen Sync Supply Unit and Advanced Cesium Clock Technology
Vital to World's Largest Purpose-Built Defense Network***

New Delhi, India. November 24, 2016. [Oscilloquartz](#), an ADVA Optical Networking company, announced today that it has been selected to synchronize a nationwide core transport network being built for India's armed forces. The 60,000km infrastructure is being constructed by a consortium led by Himachal Futuristic Communications (HFCL). The enormous greenfield transport network, referred to as Network for Spectrum (NFS), will play a critical role in serving the communication needs of India's defense forces. Oscilloquartz's technology will provide phenomenally precise frequency and phase delivery to meet the strict accuracy requirements of the mission-critical infrastructure. [Oscilloquartz's cesium beam clock](#) is a key component of the backbone solution, along with its scalable synchronization supply unit and comprehensive synchronization management system, [SyncView™ Plus](#).

"This is a major network project in terms of scale and criticality. That's why it's important that each element of the infrastructure delivers world-class performance and value," said Mr. B. B. Singh, senior VP, HFCL. "To build a network that's able to support the world's third-largest defense force, we knew we had to put together a consortium of partners that we could trust. In Oscilloquartz, we have a team with a strong record of success. Their work with synchronization networks throughout India is well known. With their cesium primary reference clocks and high-performance synchronization units, we've been able to deliver even more value. And Oscilloquartz's technology also ensures scalability for long-term growth."

Accurate timing and synchronization are critically important to defense communications, where any drift or delay can have serious repercussions. Oscilloquartz's solutions meet the most rigorous standards, guaranteeing mission-critical data is assured as it moves across India. Oscilloquartz's cesium primary reference clocks are autonomous and self-contained, making them extremely reliable and immune from external influences. What's more, the SyncView™ Plus system provides performance and security management of the entire NFS synchronization infrastructure. This latest deployment consolidates Oscilloquartz's market leadership position as the major supplier of timing and synchronization solutions to India's networks.

"In a defense communication network, precise frequency, phase and time synchronization couldn't be more critical. That's why we were chosen to build a solution that guarantees highly accurate service delivery," commented Gil Biran, general manager, Oscilloquartz. "The success of this vast and vital new infrastructure relies on having the best timing solution available. It depends on our innovation and our expertise. The whole Oscilloquartz team understands the huge difference a nanosecond makes and our solutions provide phenomenal accuracy at every point. We're making sure that the whole network talks the same language right across the country. Throughout the process, we've worked meticulously with HFCL to get every detail right. And we're also committed to maintaining that support for at least the next ten years."

Watch ADVA Optical Networking's latest video on assisted partial timing support for more information: <http://youtu.be/M5KY1taktNg>.

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About Oscilloquartz

Oscilloquartz is a pioneer in time and frequency synchronization. We design, manufacture and deploy end-to-end synchronization systems that ensure the delivery and assurance of highly precise timing information over next-generation packet and legacy networks. As an ADVA Optical Networking company, we're creating new opportunities for tomorrow's networks. For more information, please visit us at: www.oscilloquartz.com.

About ADVA Optical Networking

At ADVA Optical Networking we're creating new opportunities for tomorrow's networks, a new vision for a connected world. Our intelligent telecommunications hardware, software and services have been deployed by several hundred service providers and thousands of enterprises. Over the past twenty years, our innovative connectivity solutions have helped to drive our customers' networks forward, helped to drive their businesses to new levels of success. We forge close working relationships with all our customers. As your trusted partner we ensure that we're always ready to exceed your networking expectations. For more information on our products and our team, please visit us at: www.advaoptical.com.

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