

# Genesys International Corporation Ltd



November 24, 2021

<b>BSE Limited</b> Corporate Relationship Department P.J. Towers, Dalal Street, Fort, Mumbai - 400 001	<b>National Stock Exchange of India Ltd.</b> Exchange Plaza, Bandra-Kurla Complex, Bandra (East) Mumbai - 400 051
<b>Scrip Code : 506109</b>	<b>Symbol : GENESYS</b>

Dear Sir/Madam,

**Sub: Genesys International files for two patents essential for e-commerce and object recognition in 3D Maps**

Please find enclosed a copy of press release in regards to filing for two patents essential for e-commerce and object recognition in 3D Maps.

You are requested to take the information on record and oblige.

Thanking you,

For **Genesys International Corporation Limited**

**Vineet Chopra**  
**Vice President Legal & Company Secretary**  
Enclosed: As above

Regd. Office: 73-A, SDF-III, SEEPZ, Andheri (E),  
Mumbai-400 096, India Tel.: +91-22-2829 0303;  
+91-22-4488 4488; Fax: +91-22-2829 0603  
Website: www.igenesys.com; E-mail: investors@igenesys.com  
CIN: L65990MH1983PLC029197



**PRESS RELEASE****Genesys International files two patents essential for e-commerce and object recognition in 3D Maps**

**Mumbai, 24<sup>th</sup> November 2021** - Genesys International, a pioneer in advanced mapping solutions, has filed for the registration of two new patents of technologies and processes developed based on their extensive geospatial work executed over the years.

The first patent provides a unique 3-dimensional code, which will help pinpoint the exact location of a given object on the 3D map enabling improved accuracy in last-mile delivery of e-commerce companies. It will also help the BFSI sector in getting the accurate location of addresses and properties. The usage of this process will also assist public utility companies in managing their assets more efficiently and accurately

The second patent involves automatic extraction of the street furniture's from Panoramic imagery and LiDAR data acquired from the terrestrial mobile mapping systems. This will help in identifying ground assets and features like electric poles, telecom tower, tree types, shop names from the street corridor which will save huge amount of time and effort involved in physical visits and surveys. This will help utility companies and urban governance bodies. This will also be of huge importance in creating HD Maps required for autonomous driving.

The details of the two new patents are as follows -

**SYSTEM AND METHOD FOR PROVIDING UNIQUE 3-DIMENSIONAL ADDRESSING CODE:** This relates to a method for Assigning a Unique Identification Code to any object position in a 3D map with 3D elevation values at a grid size of 1sq mtr in the territory of India. The method provides an intelligent and fully automated system, which can generate the Positional data comprising of the latitude, longitude and elevation/depth of a point i.e. the x, y & z coordinates in the form of a unique code by clicking any position of a map on any computer system or mobile device. The code can be decrypted to know the height information of any asset – like building, tree, electric pole etc. This system can operate in both online and offline modes.

**URBAN DIGITAL TWIN MODELS - AUTOMATIC EXTRACTION OF FEATURES FROM PANORAMIC IMAGERY AND LiDAR DATA:** Digital Twin Models are 3D digital replicas of the physical world

features. The Urban Spatial Digital Twins are created using a fusion of combination of aerial survey data collected via Manned Aircrafts equipped with LiDAR, Optical and Near Infrared sensors mounted at nadir and oblique angles and Streetview datasets using terrestrial mobile LiDAR mapping data for ground based details.

The invention involves deployment of automation techniques on the Streetview datasets (Panoramic imagery and LiDAR point clouds) and identification of the real-world geographic features like electric poles, telecom tower, tree types, shop names etc. This identification is done based on their size (3D), shape, pattern etc. using AI/ML techniques. Additionally, it provides the desired accuracy of the location in the derived maps and 3D Models, which are part of the Urban Digital Twin. The system processing happens in both on-premises and cloud environment.

---

### **About Genesys International Corporation Limited**

Headquartered in Mumbai, India, Genesys International is an advanced mapping solutions company. With state-of-the-art infrastructure and a growing list of Fortune 500 and SME clients, Genesys International is well-positioned to play a significant role in the global GIS and Geospatial industry. The company has been serving clients across the globe, counting some of the world's leading companies as its clients. More information about the company is available on <http://www.igenesys.com/>

---

### **Forward Looking Statement**

Certain statements in this document may be forward-looking statements. Such forward looking statements are subject to certain risks and uncertainties like regulatory changes, local political or economic developments, technological risks, and many other factors that could cause our actual results to differ materially from those contemplated by the relevant forward looking statements. Genesys International Corporation Limited will not be in any way responsible for any action taken based on such statements and undertakes no obligation to publicly update these forward-looking statements to reflect subsequent events or circumstances.