# ElephanTTrackinG®

## The latest technology at the service of wildlife tracking now available in India

Introduced by Aane Mane Foundation in exclusive collaboration with Geotraceur (France), ElephanTTrackinG is a complete wildlife tracking system that includes the latest technology available today.

— The collars are designed based on several years of testing in the field, entirely assembled and serviced in Bangalore, with the new GPS transmitter designed by Geotraceur.

— The website is accessible to registered members from any Internet connected computer or from your android phone with a specific application to be downloaded. It features many options that allow you to design and manage autonomously your monitoring program.

ElephanTTrackinG was born from the need to develop and share a reliable and flexible tracking system for elephants in India on a non-profit basis. For us, GPS collars represent an indispensable tool to study the movements of wild elephants. It can be used as an advance warning system for the prevention of Human Elephant Conflict, but also as a modern alternative to the historical practice of chaining tamed elephants, so that they may free-range in their natural habitat.

Our aim is to provide top technology at the lowest possible price with the foremost concern for wildlife conservation. We designed ElephanTTrackinG with the highest requirements and we are its first users. So download the PDF file, write to us and join the ElephanTTrackinG community.



## New features of the ElephanTTrackinG collars

— The collars are sturdy and harmless, principally made of natural rubber. They have been designed based on over 3 years of tests in real conditions in the field.

— The collars include an electronic module or 'tracker' and a counterweight.

— The tracker is protected against shocks and water by a custom made shell and a double waterproofing seal.

— The tracker acquires the GPS position and forwards it directly to the server using the local GSM network (2G, 3G, 4G)

— In case of failed transmission, the data is stored in the tracker and sent at the next connection, so no position is lost evebn if there is no network.

— The counterweight is made of chromium coated steel. It has been specially designed so that it can lock the collar without any holes to any size within minutes. You don't need to measure the neck-girth of the elephant (Usually about 2m for an adult female and 3m for a male). Our collars are delivered with a length of 4m so as to fit any elephant and the excess is cut once fitted.

— The weight of one elephant collar is just below 10kg or only 0.3 to 0.4% of the bodyweight of an average adult elephant. It varies according to neck-girth, proportionally to the size of the animal.

— The battery level is monitored remotely every day and visible on the website and the mobile application, so you can adjust your configuration to save the life of the battery according to the specifications of your monitoring program.

— The battery level loses about 10% per year with 4-6 positions per day.

— Manufacture and maintenance of the collars are undertaken in Bangalore.

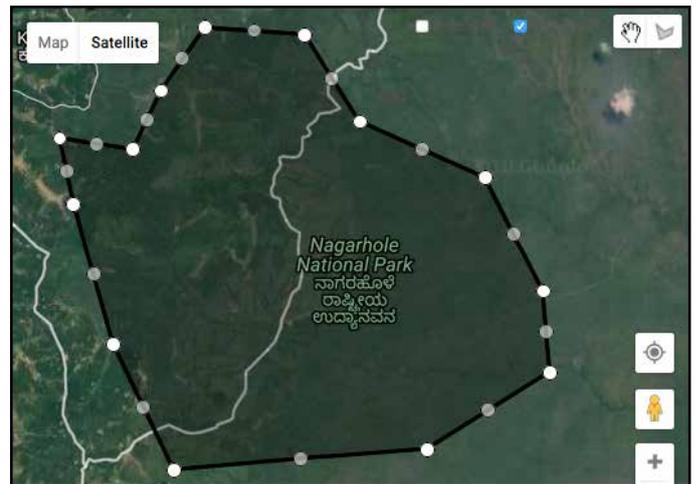— Free technical support is available online by email.

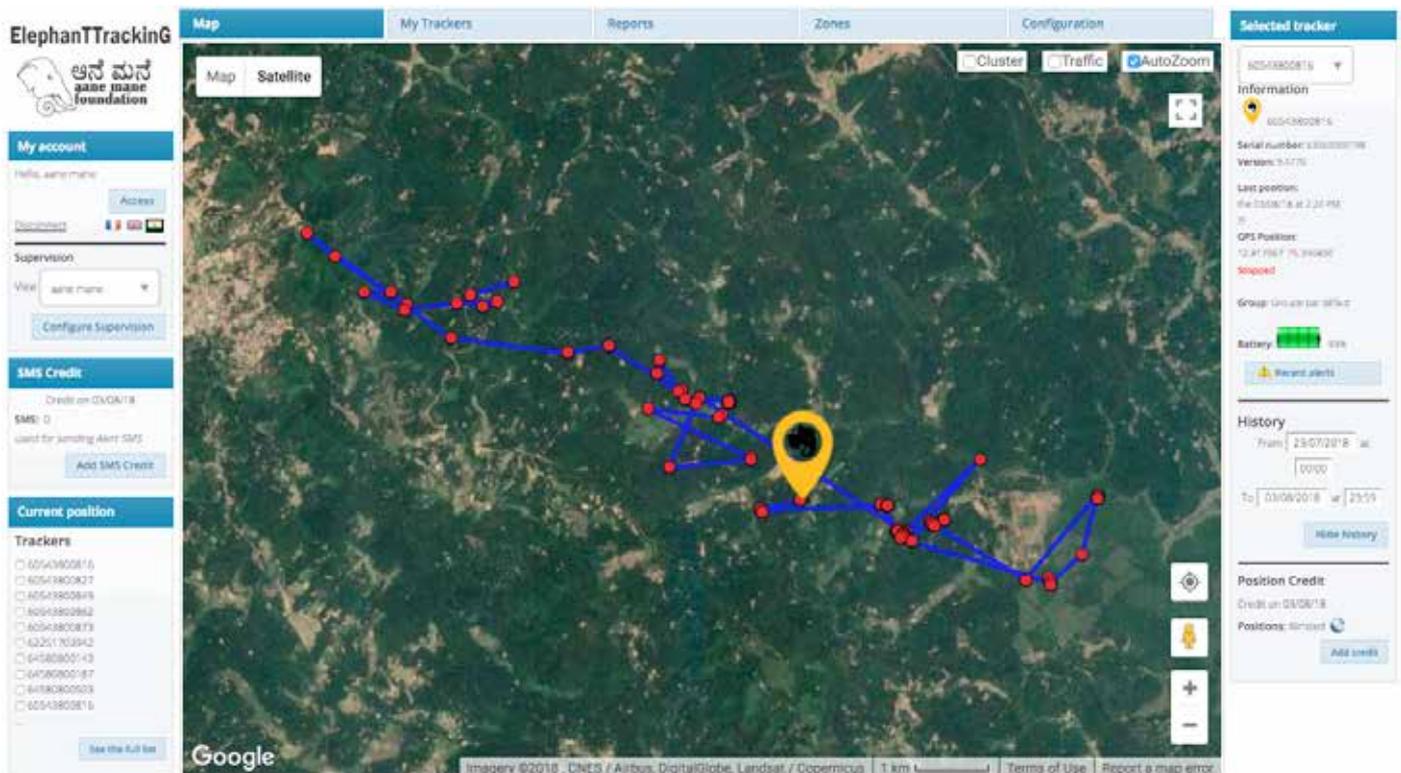— Technical assistance in the field is available upon request.

# Manage your monitoring program with the ElephanTTrackinG website

Once your ElephanTTrackinG account is created and you receive your password, you can access the website and discover its multiple functions:
— Activate or deactivate your trackers,
— Rename your trackers/animals,
— Create groups of animals that should appear together or separately on the map,
— Program the number and time of transmissions,
— Map the movements of your animals during any period of time with the history function,
— Download your data under Excel, PDF or HTML. (Your entire data is kept confidential on the server.)
— Create a virtual zone with the Geofencing function and receive an alert on your mobile if an elephant crosses the line.



# Map the movement of elephants within seconds :



# Locate the animal in the field with the Android or iPhone application :

Once a member, download the application and when in the field, you can :
— Map the last positions of each animal,
— Locate the animal with the compass function,
— Receive an alert if the animal crosses the limit of a virtual zone you have created,
— Check the battery level, the next position, etc...

# Pricing policy

Our prime motive is the conservation of wildlife and in our view, it is not a business nor an industry. With this non-profit philosophy, we have attempted to price the ElephanTTrackinG equipment and services at the lowest possible so that it can be used widely in India and South Asia by all of you who share the same concerns that guide us. However, since our products and services are sourced from various industries that do not all share our principles and motives, the more people will join us and use the system, the better we can control prices.

By joining ElephanTTrackinG, you not only acquire an exceptional tool but you also contribute to this effort. That is why it matters to us that our prices should be transparent and clearly posted on the website.

# Prepare your ElephanTTrackinG program

— The first step is to study with the help of a regular mobile phone the availability of GSM networks in the area where you plan to deploy the collars. This is crucial to decide which technology you need to use and which operator to select.

— The price of one elephant GPS collar is posted on our website and updated from time to time. Applicable sales taxes are to be added. This covers the costs of parts, assembling and testing.

— Payment is to be made in full at the time of order, by transfer or cheque. Sorry, no cash, no credit facilities.

— For each collar, you need to pay a service charge (see current prices) per year for your 24h/24 access to the server. This amount includes the maintenance of the server and the website, the download of the Android application, the update of the website and applications, the storage and protection of your data in 2 datacenters.

— For each collar, you also need a post-paid SIM card (standard size only, not mini, micro or nano) to be chosen among the mobile operators with the best network in the area where you want to work. This SIM card should work indifferently on 2G or 3G and allow packet data and roaming facilities. Packet data is billed per volume of data transmitted and not by time. Each transmission represents a very small volume of data, so you should be billed only around Rs 500 per month directly by your operator. This may vary according to the number of positions acquired per day or due to roaming charges. (New roaming charges and spectrum-sharing rules are expected soon in India)

— Once activated, send us your SIM cards along with the corresponding APN (Access Point Name). We will insert them in the electronic modules, test them and seal them for waterproofing purposes. This phase is included in the initial cost of the collars.

— The delivery or shipping of the collars to your location will be at your charge, calculated according to your location. Initially, we suggest that you come to Bangalore to be explained the fitting of the collars, check that they are working and take delivery of the equipment.

— Fitting the collar and using the website is really simple, and online support is free. And if you need us to intervene in the field for technical or training purposes, write to us and let's discuss it.

# Multi-operator SIM cards

ElephanTTrackinG collars can now be provided with multi-operator SIM cards that work with most GSM operators in India. Using such SIM cards offers several advantages :

— You don't need to go through the time-consuming process of obtaining a local SIM card.

— Multi-operator SIM cards work anywhere in India except restricted areas, so you don't need a specific SIM card according to the area where you want to use the elephant collars.

— Your collars will benefit from the combined networks of several GSM operators. Therefore, the collars will transmit from a much larger area than that of one single network, which is crucial in forest areas.

— Your system won't suffer anymore from the connection failures of local operators. The tracker will always use the best available network.

— At the present rate, our multi-operator SIM cards cost only Rs. 800 per month, and no roaming charges are to be expected. It is limited however to 9 positions per day in average. Payment is to be renewed once a year only.

Note that these SIM cards are limited to the transmission of small data packets and cannot be used in a mobile phone to make calls. There are restrictions on the use of such cards in certain areas, especially in the North-East.

# Conditions of sales

Prices are subject to change. For exact costs, please ask for a quotation. All our collars are checked with your SIM cards before delivery. We are confident about their sturdiness and reliability. Even after, it is easy to check on the website if they are working properly, but the conditions of use of elephant tracking collars are so unpredictable (physical shocks, temperature, water, etc...) that we do not guarantee the equipment against any damage once delivered.

However, we can service and repair your collars in Bangalore, so that only the damaged parts and replacement charges are billed (plus shipment). You will be sent a quotation to be approved beforehand.

**RECOMMENDATION: Always store the collars in moderate temperature (max. 30°C/86°F) in a dry ventilated place, preferably with the module oriented towards the sky near a window or under a veranda but not under direct sunshine.**

**WARNING: DO NOT TRY TO OPEN THE MODULE AS IT MAY BE HAZARDOUS.**

**DONATE an ElephanTTrackinG collar to an organization working with elephants. WRITE TO US !**

# For quotations and orders, log in : www.elephanttracking.org and contact us



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