

## **Scope of work for Hawaii Sandalwood Seed Orchard Project - FY23**

In Hawai‘i, both the native sandalwood (*Santalum spp.*) and koa (*Acacia koa*) trees are highly valued economically, ecologically, and culturally. Owing to the multiple threats of fire, predation, and habitat loss, the regeneration of sandalwood and koa is a significant concern. One significant threat to Hawaiian koa forests is koa wilt disease, caused by *Fusarium oxysporum* f.sp. *koae*, which can prevent the successful establishment of commercial plantations and restoration projects. This project will support establishing and maintaining a network of eco-regional specific sandalwood and disease resistant koa seed orchards by island to produce improved sandalwood and koa seeds in coordination with various partners.

DOFAW seeks a vendor to carry out this statewide project detailed below, working in close collaboration with DOFAW district staff. Vendor will also advise DOFAW staff on technical issues relating to koa and sandalwood and needs to demonstrate sufficient technical expertise.

Project activities are divided into 2 main parts:

### **Part 1: Sandalwood Seed Orchard – Establishment and Maintenance**

Maui:

- Establish a 2-5 acre sandalwood seed orchard site on the island of Maui. This orchard will eventually provide seed for native forestry restoration efforts within the local eco-region. Collected seeds for propagation from mother trees within the local eco-region will be selected for vigor, form, and potential high oil quality for planting into the orchard.
- Seed orchard establishment, including site preparation (e.g., weed control, clearing, disking, ripping) and planting, will be coordinated with DOFAW and the private landowner. The design and layout for the planting will be conducted by the vendor. The planting of seedlings will be carried out jointly by vendor, DOFAW, and private landowner as appropriate. Status: ongoing
- Note: Ulupalakua Ranch has been tentatively selected as the site. If needed, the vendor will coordinate with DOFAW on alternative sites.

**VENDOR REQUIREMENTS:** The vendor will need to possess sandalwood seedling stock originating from selected eco-region on the island of Maui. Nursery capacity to grow seedlings for outplanting and previous experience establishing sandalwood plantations is also required.

Oahu:

- Conduct quarterly maintenance\* of the 5 acre Helemano Koa/Sandalwood seed orchard.

Hawaii Island:

- Conduct quarterly maintenance\* of two existing sandalwood seed orchards in South Kona on Hawaii Island (Haloa Aina and Kealakekua Mountain Reserve).



*\*Seed orchard maintenance consists of weed suppression, pruning, pest monitoring, and growth measurements unless otherwise specified.*

Vendors shall submit a short proposal along with a quote, listing qualifications and other requirements mentioned above.