Attachment C

Technical Capability

Applicants Expertise:
I currently run a spray drone application business and have covered 3,500 acres of crop ground and 500 acres of pasture ground in the 2023 year. I was profitable in the last year and have the ability to grow this operation with the help of this grant. I am able to pay employees a great pay and help them develop skills for precision agriculture with my business.

Program Details

Ference Agronomy LLC will use this grant to purchase two t40 DJI Drones for aerial application on a minimum 3,000 acres per year to service producers in central Nebraska.The goal of applying products logically, economically, and agronomically to serve central Nebraska farmers, and provide a framework to other young agricultural entrepreneurs to pursue a business within the industry.

Expected Life
With bi weekly checks, and daily checks maintained will be done correctly. I will train them on those processes so these drones can have the potential life of 10 years. Propellers will be replaced after 1,000 acres or notice of wear and tear. Also the system will be washed and cleaned every night. This will allow the chemical wear to be zero. We will make sure the remotes and batteries are stored in correct temps and refill the batteries if needed to keep the life of the batteries.

Maintenance Plan.

Check propellers and tighten all screws at the beginning of every field. We will always replace the batteries after every load to make sure we don't risk losing a drone because of battery dying. Daily the arms of the drone will be checked to confirm a safe take off and flighting of the drone to all workers and bystanders. Weekly we will check the pumping motor and lines to ensure no problem with leaks or inaccurate readings. These protocols will be able to keep the drone up and running for over 5 years. Also Ference Agronomy will have at least 5,000 dollars in the budget to help for the replacement of unforeseen problems to repair and replace to keep the drone active.