BUDGET LIST

Research equipment

1. Analytical Balance:
   - An accurate balance for measuring precise quantities of rice samples.

2. Mortar and Pestle:
   - Used for homogenizing rice samples before analysis.

3. Sample Containers:
   - Containers for storing rice samples before and after analysis.

4. Sieve Set:
   - To separate rice particles by size and obtain uniform samples.

5. Laboratory Oven:
   - Used for drying rice samples before analysis.

6. Muffle Furnace:
   - For ashing rice samples to determine mineral content.

7. Digestion Apparatus:
   - Equipment for digesting rice samples for mineral analysis (e.g., Kjeldahl apparatus for nitrogen analysis).

8. pH Meter:
   - To measure the pH of rice extracts, which can affect nutrient availability.

9. Spectrophotometer:
   - For analyzing various nutrients, including vitamins and minerals, using colorimetric or UV-Vis methods.

10. HPLC (High-Performance Liquid Chromatography):
    - Used for quantifying specific nutrients like vitamins (e.g., B vitamins) and antioxidants.

11. GC (Gas Chromatograph):
    - For analyzing fatty acids and lipid content.

12. Centrifuge:
    - To separate components in rice extracts, such as separating fat from the aqueous phase.

13. Autoclave:
    - For sterilizing equipment and media used in microbiological analyses.

14. Microscope:
    - For examining rice samples for fungal contamination or insect infestation.

15. Incubator:
    - For culturing microorganisms when conducting microbiological tests.

16. Refrigerator and Freezer:
- For storing reagents, standards, and samples at appropriate temperatures.

17. Distillation Apparatus:
- If conducting distillation for nutrient analysis (e.g., total protein determination).

18. Chemicals and Reagents:
- A variety of chemicals and reagents for conducting specific nutrient tests, including indicators, solvents, standards, and buffers.

19. Glassware and Labware:
- Beakers, flasks, test tubes, pipettes, and other glassware for preparing and handling samples.

20. Safety Equipment:
- Lab coats, gloves, safety glasses, and other personal protective equipment (PPE) for handling chemicals and samples.

21. Data Analysis Software:
- Software for data analysis, statistical analysis, and generating nutritional profiles.

22. Documentation and Lab Notebooks:
- To record procedures, observations, and results accurately.

23. Rice Mills :
-To practically enable farmers to process rice and increase the awareness of mechanised farming.

24.Videography & Photography Camera:
- Capture all the events and enable the public to be aware of the ongoing campaign

25. Camera Lens:
- Prime Lens
- Zoom Lens
- Wide- Angle Lens
- Telephoto Lens

26. Tripod:
- To hold up the camera during video taping of the event and capacity building

27. Camera Accessories:
- Camera Bag
- Memory Card
- External Harddisks
- Video Editing Software
- Headphone

28.Microphone

29.Travel & Lodging

30.Capacity Building & Workshop

31. Media Exposure

32. Certifications

33. Intellectual Property