

Need Based R&D Projects Phase-I

Sr. #	Title of Project
1.	• Synthesis of triterpenes and other bioactive compounds by microbial biotransformation/ chemical method
2.	• Dietary Supplements Rich In Branched Chain Amino Acid For The Patient Of Chronic Diseases
3.	• Culture of microalgae, Spirulina for Nutraceutical and Aquaculture products
4.	• Isolation, purification & characterization of phytase from microbial source & its potential applications in poultry feed
5.	• Development of HA Coating on Orthopedic Implants with Animal Trials
6.	• Development of high temperature Kiln Refractory/ Furnace
7.	• Development of Industrial Chemicals[(Di-Octyl Terephthalate (DOTP), Tri-Octyl Trimellitate (TOTM)]
8.	• Synthesis of Zeolite based Nano-fertilizer for slow release of nutrients in soil
9.	• Production of methane gas by using agro-industrial waste (fruits & vegetables and various additives)
10.	• Development of Nano-coatings by Low Cost methods for Photovoltaic Applications
11.	• Preparation of protein hydrolysate to control fruit flies
12.	• Development of Micro Feeder for wheat flour fortification
13.	• Synthesis of Polyacrylic Resin Superabsorbent for Plastic Industry
14.	• Utilization of food Industries Processing Waste (by-products) in the Preparation of Novel food (Nutraceutical)
15.	• Preparation and utilization of Opuntia extracts in herbal products
16.	• Preparation of Herbal Products from Saw-palmetto for the Treatment of Benign Prostatic Hyperplasia (BPH)
17.	• Production of coal tar and char from Pakistani lignite and its utilization in the industries of Pakistan
18.	• Exploration of future fuel for the boilers of industries and coal-based power plants- Co-combustion studies of some novel renewable fuels/coal blends
19.	• Easy maintainable leather with up-graded properties through advanced nano materials
20.	• Investigation of causes of Spew problem being faced by Pakistan leather industry and the replacement of degreasing chemicals by appropriate enzyme technology
21.	• Development of zero formaldehyde syntan for leather industry
22.	• Design, Fabrication of Prototype Solar Oriented Dehydrator for Drying Dates & Chilies

