**Rates of Products/Services Provided by NIBGE**

* Note: Only advance test fee as Online Payment or Demand Draft/ Pay Order in favor of “Head LAO, NIBGE” is acceptable.
* Contacts: PBAX: 041 9201316-20, Extension # vary for different services as mentioned below
* Quotation can be provided on request
* **Information for Online Payment:**

Account No. 3247270090

Branch Code: 0560

Branch Name: National Bank of Pakistan (NBP), AARI Branch, Faisalabad

Account Title: National Institute for Biotechnology and Genetic Engineering Generated Income and Expenditure Account

**FTN (Free Tax No.) 9015600-5 Pakistan Atomic Energy Commission (PAEC)**

|  |  |  |
| --- | --- | --- |
| **Sr. #** | **Name of Product/Services** | **Rate (Rs.)** |
| **Agricultural Biotechnology Division** | | |
| For DNA / GMO / Fiber Testing and TEM analysis, please send sample(s) alongwith DD or online payment slip and covering letter at the following address:  Dr. Nasir A. Saeed  Deputy Chief Scientist  Head, Agricultural Biotechnology Division  National Institute for Biotechnology & Genetic Engineering (NIBGE),  Jhang Road, Faisalabad.  For further queries, please contact:  Dr. Nasir A. Saeed  Phone: 041-9201316-20 (5 lines); Ext. 3332 and 3227  Email: nasaeedpk@yahoo.com | | |
|  | DNA testing | 10,000 |
|  | GMO testing | |
|  | 1. Qualitative PCR based | 9,000 |
| 1. Quantitative PCR based | 12,000 |
| For query on GMO Testing please email: [nibge.gmotesting@gmail.com](mailto:nibge.gmotesting@gmail.com) | |
|  | Fiber testing (HVI) | 400 |
|  | Transmission electron microscopy (TEM) | |
|  | 1. Ultrastructure studies | 3,000 |
| 1. Immuno-gold labelling | 6,000 |
| 1. Immunosorbent studies | 3,000 |
| 1. Direct observation | 1,400 |
| 1. Ultra-microtomy | 2,000 |
| 1. Light microscopy | 1,000 |
|  | | |
| **Health Biotechnology Division** | | |
| For CV Chromoscan analysis, Aflatoxins analysis in Betel Nut, Soybean, Cereal and other samples, LCMS and HPLC analysis, please send sample(s) along with DD and covering letter at the following address:  Dr. Mazhar Iqbal,  Deputy Chief Scientist,  Head, Health Biotechnology Division,  National Institute for Biotechnology & Genetic Engineering (NIBGE),  Jhang Road, Faisalabad.  For further queries, please contact:  Dr. Mazhar Iqbal  Phone: 041-9201316-20 (5 lines); Ext. 3241  Email: hamzamgondal@gmail.com | | |
|  | CV Chromoscan (karyotyping, chromosome analysis) | 8,000 |
|  | Aflatoxins Analysis in Betel Nut and Soybean Samples | 20,000 |
|  | Aflatoxins Analysis in Cereal and Other Samples | 12,000 |
|  | LCMS: Research Samples, especially funded by individuals and HEC | 10,000 |
|  | HPLC | 10,000 |
|  | | |
| **Soil and Environmental Biotechnology Division**  Dr. Samina Iqbal  Head, Soil and Environmental Biotechnology Division  National Institute for Biotechnology & Genetic Engineering (NIBGE),  Jhang Road, Faisalabad  Contact 041 9201260 | | |
| **TestingServices for Water, Wastewater, Soil, etc. and Products related to wastewater treatment wetlands\***  **Contacts:**  Dr. Muhammad Afzal, PS; 041 920 1258, 0300 9660518; manibge@yahoo.com  Mr. M. Saeed Ahmad; Ext. 3331, 0306 7014236; saeed\_env@yahoo.com  Dr. Razia Tahseen, P; Ext. 3258  Mr. Ghulam Shabir, PSA; Ext. 3258, 03017184547 | | |
|  | Analysis of drinking water for pH, Ec, Ca, Mg, Na, K, Cl, SO4 & TDS0 | 2,500 |
|  | Total microbial load | 800 |
|  | *E. coli* | 800 |
|  | *Coliform* | 800 |
|  | *Fecal coliform* | 800 |
|  | *Enterococci* (quantitative) | 3,000 |
|  | *Enterococci (*qualitative*)* | 1,400 |
|  | *Pseudomonas aeruginosa* (quantitative) | 3,000 |
|  | *Pseudomonas aeruginosa (*qualitative*)* | 1,400 |
|  | Taste of drinking water | 100 |
|  | Odor of drinking water | 100 |
|  | Appearance of drinking water | 100 |
|  | Water and wastewater composite sampling (+ traveling charges & DA) | 2,000 |
|  | Water & wastewater grab sampling  (+ traveling charges & DA) | 1,500 |
|  | Temperature | 200 |
|  | pH | 200 |
|  | Electrical conductivity (EC) | 200 |
|  | Chemical oxygen demand (COD) | 1,000 |
|  | Biochemical oxygen demand (BOD) | 1,500 |
|  | Total hardness | 700 |
|  | Calcium hardness | 700 |
|  | Total solids | 800 |
|  | Total settable solids | 500 |
|  | Total suspended solids (TSS) | 700 |
|  | Total dissolved solids (TDS) | 800 |
|  | Volatile solids | 1,000 |
|  | Dissolved oxygen | 600 |
|  | Total organic carbon (TOC) | 1,000 |
|  | Nitrogen (Kjeldahl method) | 1,200 |
|  | Ammonium (NH4-N) | 800 |
|  | Phosphorous (available) | 800 |
|  | Inorganic phosphorous | 700 |
|  | Sulphate (SO4) | 800 |
|  | Nitrate (NO3) | 1,000 |
|  | Nitrite (NO2) | 800 |
|  | Chlorine (as Cl2) | 1,000 |
|  | Chlorides | 800 |
|  | Sulphides | 800 |
|  | Carbonate | 600 |
|  | Bicarbonate | 600 |
|  | Residual sodium carbonate (RSC) | 1,800 |
|  | Hydroxide | 800 |
|  | Phosphate | 800 |
|  | Cyanide (CN) | 1,000 |
|  | Fluoride | 1,000 |
|  | Total color | 500 |
|  | Turbidity | 500 |
|  | Acidity | 600 |
|  | Basicity | 600 |
|  | P value | 600 |
|  | M value | 600 |
|  | Oil and grease | 1,200 |
|  | Phenol | 800 |
|  | Anionic surfactants | 1,000 |
|  | Hydrogen peroxide (H2O2) | 3,000 |
|  | Sodium adsorption ratio (SAR) | 2,000 |
|  | Digestion of sample for metals | 1,500 |
|  | Sodium (Na) | 700 |
|  | Potassium (K) | 700 |
|  | Magnesium (Mg) | 800 |
|  | Calcium (Ca) | 800 |
|  | Aluminum (Al) | 800 |
|  | Antimony | 1,000 |
|  | Arsenic (As) | 1,000 |
|  | Barium (Ba) | 800 |
|  | Boron (B) | 1,400 |
|  | Cadmium (Cd) | 1,200 |
|  | Chromium (Cr) total | 800 |
|  | Cobalt (Co) | 800 |
|  | Copper (Cu) | 800 |
|  | Iron (Fe) | 800 |
|  | Lead (Pb) | 1,500 |
|  | Manganese (Mn) | 800 |
|  | Mercury (Hg) | 1,000 |
|  | Nickel (Ni) | 800 |
|  | Selenium | 2,000 |
|  | Silicon (Si) | 900 |
|  | Silver (Ag) | 800 |
|  | Zinc (Zn) | 1,200 |
|  | Anti-fungal test (for fabric) | 4,000 |
|  | Anti-bacterial test (for fabric) | 4,000 |
|  | Formaldehyde, HCOH (Fabric) | 2500 |
|  | Soil analysis (N, P, pH, EC) | 5,000 |
|  | Plant analysis (N, P) | 5,000 |
|  | Flue gas analysis (ambient air temp, flue gas temp, combustion efficiency, CO, NO, NO2, NOx, SO2, CO2, O2, LEL losses lambda) + traveling charges | 3,000 |
|  | FTIR analysis (extracted sample) | 500 |
|  | FTIR analysis (non-extracted sample) | 2,000 |
|  | Specific wetland plant saplings in plastic pot (per plant) | 150 |
|  | Bacterial consortium for WWT  (one liter of optical density 0.7-0.9 at 600nm) | 3,000 |
|  | Pesticide, drug residues/ organic compounds by HPLC | 10,000 |
|  | Pesticide, drug residues/ organic compounds by HPLC using solid phase extraction | 15,000 |
| * Details of test, sample type, sample No. and size (~1000 ml) etc. may be provided alongwith sample * Results are delivered after seven working days (Monday to Friday) | | |
| **Biofertilizers products and related testing services\*\***  **Contacts:**  Dr. Fathia Mubeen, DCS; Ext. 3267; mufathia@yahoo.com  Dr. Sumera Yasmeen, PS; Ext: 3270; sumeraimran2012@gmail.com  Dr. Asma Imran, PS; Ext. 3268; [asmaaslam2001@yahoo.com](mailto:asmaaslam2001@yahoo.com)  Dr. Muhammad Imtiaz, SS;Ext. 3267; 0306 6727325; [m.imtiazpk92@yahoo.com](mailto:m.imtiazpk92@yahoo.com) | | |
|  | BioPowerSUPER (1 Kg bag) | 500 |
|  | Phosphorus Pool (1 Kg bag) | 500 |
|  | Testing of biofertilizer sample for bacterial load | 2,000 |
|  | Testing of biofertilizer sample for bacterial load/ growth promoting traits | 8,000 |
|  | Confocal laser scanning microscopy (analysis/observation of prepared sample) | 1,200 |
| \*\*Note: BioPower and Phosphorus Pool are prepared as per demand after receipt of Demand Draft/ Pay Order and order details e.g., crop and area etc. | | |
| **Toxicity testing,** β **casein gene polymorphism etc. \*\*\***  **(ISO 17025-2017 accredited Tox lab)**  **Contacts:**  Ms. Ameena Mubeen, PS; Ext 3251; amina25@gmail.com  Dr. Muhammad Asif, SS; Ext 3306; 0321 932 9979  Mr. Sohail Anjum; Ext. 3250, 0307 8833224; sam\_uaf@hotmail.com | | |
|  | Bovine beta casein gene polymorphism detection test | 2,000 |
|  | Acute oral LD 50 | 25,500 |
|  | Acute percutaneous LD50 | 14,000 |
|  | Acute fish toxicity assay | 8,500 |
|  | Dermal irritation | 14,000 |
|  | Ocular irritation | 14,000 |
|  | Mutagenicity | 25,000 |
|  | Albino rats (each) | 300 |
|  | Albino mice (each | 150 |
|  | Albino rabbits (each) | 500 |
| \*\*\*Details of test, sample type, sample No. and size etc. may be provided alongwith test sample. | | |
| **Industrial Biotechnology Division**  **Dr. Kalsoom Akhtar, DCS, HOD; 041 2653058** | | |
| **TestingServices for Field emission scanning electron microscopy, Atomic force microscopy, nano particles etc.**  **Contacts:**  Dr. Waheed S. Khan, DCS; 041 9201404, 03315267520; waheedskhan@yahoo.com  Dr. Sadia Zafar Bajwa, PS; Ext. 3317, 0336 7003836, [sadya2002pk@yahoo.com](mailto:sadya2002pk@yahoo.com)  Dr. Nasrin Akhtar, PS; Ext 3226, o306 7108009, [Nasrin\_397@yahoo.com](mailto:Nasrin_397@yahoo.com) (For coal analysis) | | |
|  | **Field emission scanning electron microscopy** | |
|  | 1. Conducting sample without any pre-treatment, (five images) | 3,500 |
| 1. Non conducting sample if need any pre-treatment, (five images) | 4,500 |
| 1. Energy dispersive X-ray spectroscopy (EDS)-one graph | 1,000 |
|  | Porosity and surface area analysis | 6,000 |
|  | Pycnometer | 1,000 |
|  | Zetasizer nano (hydrodynamic diameter) | 1,000 |
|  | Zetasizer nano (potential/surface charge) | 1,000 |
|  | High temperature furnace (RT to 1200 ℃) | 2,000 |
|  | FT-NIR | 2,000 |
|  | **Atomic force microscopy** | |
|  | 1. Atomic force microscopy (contact mode) | 2,000 |
| 1. Atomic force microscopy(non-contact mode) | 2,000 |
| 1. Atomic force microscopy (dynamic mode) | 2,000 |
| 1. Scanning tunneling microscopy | 2,000 |
| 1. Magnetic force mode | 2,000 |
| 1. Lateral force mode | 2,000 |
| 1. Phase mode | 2,000 |
|  | Electrochemical analysis by PG stat (per experiment) | 2,000 |
|  | Gold nano particles (in aqueous phase) 100 ml | 5,000 |
|  | Gold nano particles (in organic phase) 100 ml | 8,000 |
|  | Silver nano particles (in aqueous phase) 100 ml | 2,500 |
|  | Silver nano particles (in organic phase) 100 ml | 5,500 |
|  | Platinum nano particles (in aqueous phase) 100 ml | 6,000 |
|  | Platinum nano particles (in organic phase) 100 ml | 9,000 |
|  | Palladium nano particles (in aqueous phase) 100 ml | 6,000 |
|  | Palladium nano particles (in organic phase) 100 ml | 9,000 |
|  | Porous polymer (beads 1 g) | 5,000 |
|  | Porous polymer (monoliths 1 g) | 5,000 |
|  | Quartz crystal microbalance biosensor analysis | 4,000 |
|  | Microchip/electrical biosensor | 1,500 |
|  | Coal analysis (ultimate and proximate) | 9,000 |
|  | Calorific value (Bomb colorimeter) | 5,000 |
|  | Proximate analysis | 5,000 |
|  | Moisture contents | 500 |
|  | Iodine | 1,000 |
|  | Ultimate analysis/elemental analysis (% C, H, N, S) | 5,000 |
|  | | |