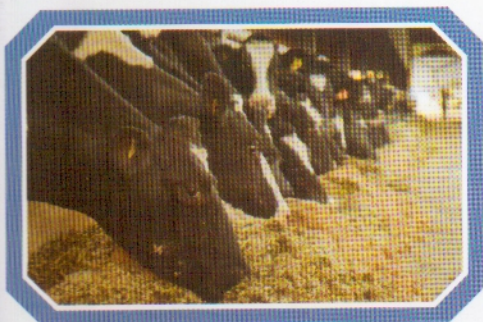


PUNJAB BIOTECHNOLOGY INCUBATOR

A Component of Knowledge City, Sector 81, Mohali
(A State Govt. Undertaking)

Defining Excellence with Quality



An NABL Accredited Facility



QUALITY POLICY

PBTi's
Agri and Food Testing Laboratory

Endeavors to

Provide State-of-the-Art testing services that furnish technically valid and reliable test data with high degree of credibility.

PBTI is Committed to

- Adhere to Good Laboratory Practices conforming to ISO/IEC 17025 : 2005.
- Maintaining high degree of professional ethics & integrity.
- Continually improve its operations.
- Optimum utilization of resources.
- Ensure Customer Satisfaction.

PBTI Aims to be

A Centre of Excellence
&
a benchmark in its area of
operation.

ORGANIZATION

Government of Punjab (GoP) with the financial support of Department of Biotechnology (DBT), Govt. of India (GoI) has setup Punjab Biotechnology Incubator (PBTI) which is an integral component of Agri Food Biotechnology Cluster in Sector 81, SAS Nagar (Mohali). PBTI is registered under Societies Registration Act XXI of 1860 and amended by Punjab Amendment Act 1957 as a Society. PBTI is professionally governed by Governing Council under the chairmanship of Chief Secretary Punjab. Presently PBTI is operational from a transit premises at Mohali since 2007.

GOVERNING COUNCIL

Chief Secretary, Punjab,
Punjab Civil Secretariat,
Chandigarh

Principal Secretary/Secretary,
Science, Technology &
Environment, GoP, Punjab
Civil Secretariat,
Chandigarh

Principal Secretary,
Department of Finance, GoP,
Punjab Civil Secretariat,
Chandigarh

Chief Executive Officer
Punjab Biotechnology
Incubator, **SAS Nagar**

Director,
Indian Institute of Science
Education and Research
(IISER), Knowledge City,
SAS Nagar

Member Secretary, Central
Pollution Control Board,
New Delhi

Dr. S. S. Marwaha
Professor of Applied
Agriculture and Chairman,
Central Instrumentation
Laboratories (CIL), Central
University of Punjab, **Bathinda**

Dr. Naresh Kumar
Former Scientist H,
Outstanding Scientist & Head,
R&D and Planning, CSIR,
Delhi

Director,
International Centre for Plant
Genetic Engineering and
Biotechnology, **New Delhi**

Director,
ICAR-National Bureau of Plant
Genetic Resources (NBPGR),
New Delhi

Executive Director,
National Agri Food
Biotechnology Institute,
Knowledge City,
SAS Nagar

Dr. Sanjay Trehan,
President,
Panacea Biotec Ltd.,
SAS Nagar

Dr. Jasvir Singh,
Regulatory, Scientific and
Government Affairs
Leader-South Asia
Dupont Nutrition & Health,
Danisco (India) Pvt. Ltd.,
Gurgaon

Admin-cum Finance &
Accounts Officer,
Punjab Biotechnology
Incubator,
SAS Nagar

RECOGNITIONS FOCUS AREAS



RECOGNITIONS

- NABL Accredited-Chemical and Biological Fields
- BIS Recognized
- Empanelled by FSSAI, GOI
- Empanelled by EIC, GOI
- Empanelled by APEDA, GOI
- Recognized under OHSAS (ISO 18001)
- Recognized as SIRO by DSIR, GOI
- Notified State Water Lab by GOP
- Recognized as Class 'A' Laboratory by PPCB
- Recognized by CPCB under EPA
- Recognized by PDDD, GOP
- Approved as CTL by MNC's in Food and Environmental Sectors
- Identified to be notified as National Referral Lab for LMO/GMO detection by MOEF&CC, GOI

FOCUS AREAS

- Quality Testing
- Contract Research
- Capacity Building
- Project Management Consultancy

SERVICES



SERVICES

FOOD AND AGRICULTURE

- Residue and Trace Analysis
 - Pesticides
 - Drugs/ Antibiotics
 - Heavy Metals
- Microbiological Analysis
 - Pathogens
 - Viruses
 - Toxins
 - Bio Burden
 - Sterility
 - Personal Hygiene
 - Plant Hygiene
 - Microbial Identification
- GMO/LMO Testing
- DNA Sequencing
- PCBs and PAH Analysis
- Adulterants Analysis
- Food Additive Analysis
- Physico Chemical Analysis
- Process Contaminants Analysis
- Nutritional Profiling
- Vitamin Profiling
- Mineral Profiling
- Amino Acid Profiling
- Fatty Acid Profiling
- Sugar Profiling
- Textural and Rheological Properties
- Sensory Evaluation
- Shelf Life Studies
- Phytochemicals
- Sterols
- Micronutrient Profiling - Soil & Water
- Macronutrient Profiling – Soil & Water
- Authenticity testing of Honey
- Authenticity testing of Basmati Rice

Contd. ...

SERVICES



SERVICES (Contd.....)

POLLUTION AND ENVIRONMENT

- Gaseous Pollutants
- Particulate Matter
- Physico- Chemical Parameters
- Biological Parameters
- Hazardous Pollutants
- Noise Monitoring
- Weather Monitoring
- Dioxins

CONTRACT RESEARCH

- Food Sector
- Environment Sector
- Agri and agri input sector

MISCELLANEOUS

- Method Validation
- Antibiotic Susceptibility
- Impurity Profiling
- Pesticide Formulation
- Chromatographic/ Spectroscopic Analysis
- HPLC Profiling

CAPACITY BUILDING SERVICES

- Skill Development Programmes
- Awareness Workshops
- Hands-on trainings
- Programme Study Center for IGNOU
- Collaboration with State / Central Universities for HR Development and R&D

OTHERS ON DEMAND BASIS

SECTORS SERVED



FOOD AND AGRICULTURE

- Fresh Agri Produce
- Milk & Milk products
- Oils & Fats
- Fruit & Vegetable Products
- Cereal & Cereal Products
- Spices and Condiments
- Honey
- Rice/Basmati Rice
- Sweets & Confectionary
- Beverages
- Drinking Water
- Food Additives
- Potato Seeds
- Tissue Culture Raised Plants
- Meat & Meat Products
- Fish & Fish Products

NATURAL PRODUCTS

- Herbs & Herbal Products
- Nutraceuticals

AGRI INPUTS

- Fertilizers
- Micro & Macro Nutrients
- Pesticide Formulations
- Soil
- Irrigation Water

ANIMAL FEEDS

- Cattle feed
- Poultry feed

ENVIRONMENT

- Air
- Noise
- Soil & Sludge
- Hazardous waste
- Water & Waste Water

OTHERS

- Biocides
- Disinfectants

ANALYTICAL STRENGTH



ANALYTICAL STRENGTH

- EA-IRMS and LC-IRMS
- LCMS-MS, HPLC-RID, FLD & DAD
- GCMS-MS, GCMS, GC-ECD, NPD/ TSD & FID
- ICP-MS
- AAS
- Ion Chromatography System
- Amino Acid Analyser
- Automated Protein Estimation System
- DNA Sequencer
- Real Time- PCR, PCR
- ELISA Reader and Washer
- Gel Electrophoresis & Documentation System
- Alveo Consistograph
- Falling Number Apparatus
- Glutomatic System
- Starch Damage Analyser
- Texture Analyser
- Dietary Fiber Extraction System
- Crude Fiber Extraction System
- Solid Phase Extraction (SPE) System
- Accelerated Solvent Extraction (ASE) System
- Soxhlet Extraction System (Standard, Warm, Hot and Continuous Modes)
- FT-IR
- UV-Vis Spectrophotometer
- Respirable Dust Sampler
- Gaseous Sampler
- Fine Particulate Sampler
- NDIR Based CO Analyser
- Sound Level Meter
- Weather Monitoring System
- Stack Sampler
- Flue Gas Analyser

AUTHENTICITY OF BASMATI



BAS - FRAGRANCE MATI - SOIL

As the name indicates BASMATI is known for its Magical Aroma, Tantalizing Flavor and Delicate Fluffy Texture which makes it the most favorite variety of rice around the Globe.



ADULETRATED BASMATI ?

Because of its unique properties BASMATI Rice commands a premium price in the world market. Difficulty in differentiating genuine BASMATI from other types of rice and the significant price difference between them has led fraudulent traders to adulterate BASMATI rice with long-grain non-basmati varieties.



AUTHENTICITY OF BASMATI....

Visual differentiation between BASMATI and Non-Basmati needs age long experience and still huge uncertainty prevails in the results. DNA fingerprinting is the only foolproof technique to check the Adulteration with Non-Basmati varieties.



PBTI- ONE STOP SHOP FOR RICE TESTING

PBTI is equipped with Hi-end world class facilities for complete Testing of RICE including Authenticity testing of BASMATI, Pesticide Residues, Heavy Metals, Microbial Pathogens, Mycotoxins and Physico-chemical Parameters. The facility for Authenticity Testing of BASMATI is the FIRST of its kind in Punjab.

AUTHENTICITY OF HONEY



HONEY - NECTAR FOR LIFE

HONEY Wonderfully rich golden liquid is a miraculous product, produced by Honey Bees from floral nectar. It enjoys a special status not only as a source of energy, but, also for its health promoting properties being a rich source of Enzymes, Vitamins and Minerals.



FAKE HONEY ?

Being a high value product it becomes prime target for fraudulent adulteration with Cane sugar, High Fructose Corn Syrup, Invert Sugar etc. Adulterated Honey loses the Medicinal Values of this Golden Nectar.



PBTI- ONE STOP SHOP FOR HONEY TESTING

PBTI has Stable Isotopic Ratio Mass Spectroscopy technique hyphenated with Elemental Analyser and LC interface (LC-EA-IR-MS) to detect the adulteration in honey. This facility for Authenticity Testing of Honey is the FIRST of its kind in India being offered by a Public Sector Organization. In addition PBTI is well equipped with Hi-end equipment for the detection and quantification of Drug Residues, Pesticide Residues, Heavy Metals and other general parameters in Honey.

MAJOR BENEFICIARIES



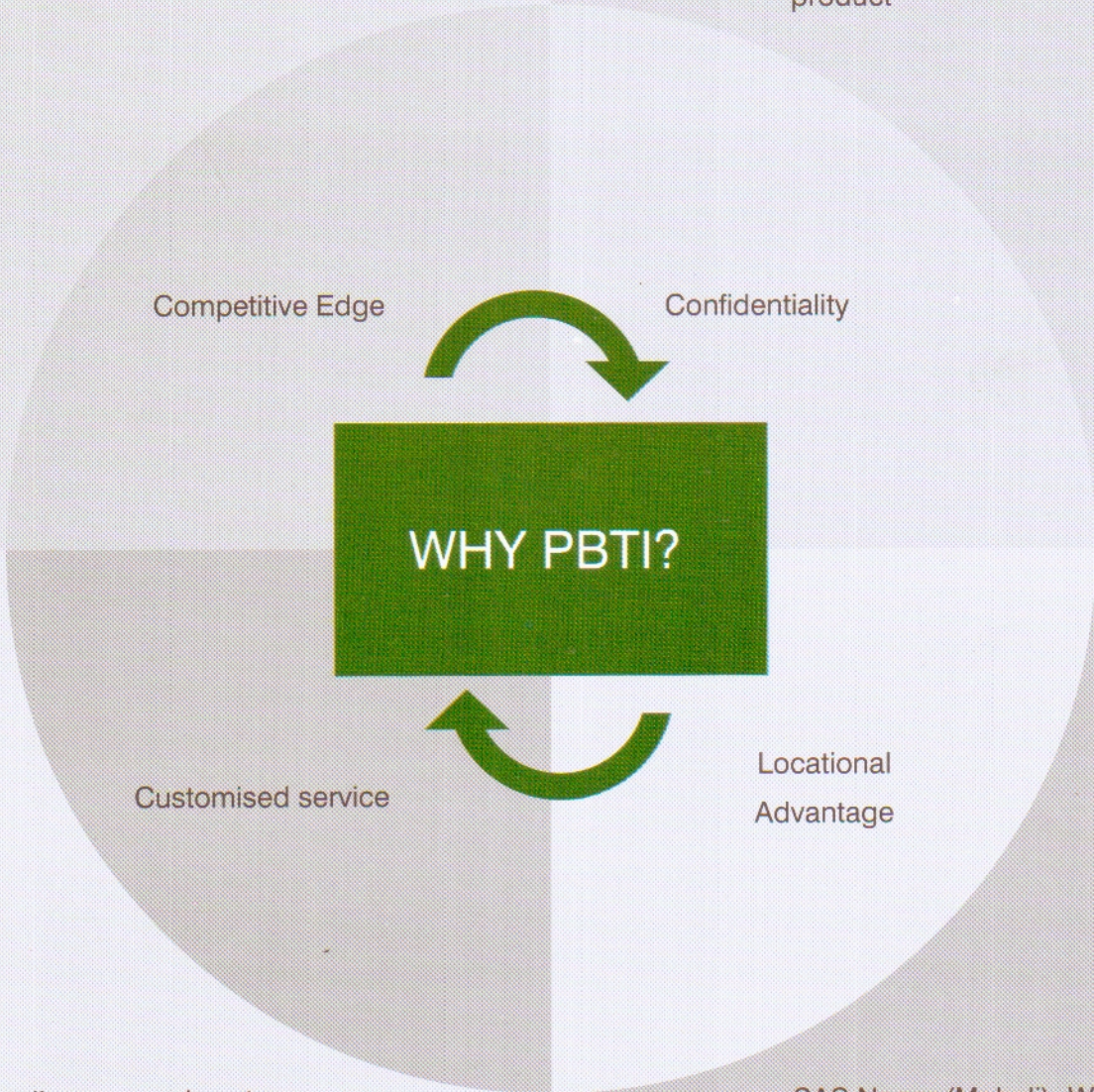
MAJOR USER GROUPS

- Farmers
- Farmer Groups
- State Cooperatives
- Industrial Houses
- Entrepreneurs
- R&D Institutes / Organization
- Germ Plasm / Seed Producers
- MNC's in Agri, Food and Environmental Sectors.

Currently more than 1000 groups are regular users of PBTI's facilities.

- National / State Level Accreditation, Recognitions & Approvals
- World Class Expertise
- Hi-End Sophisticated Equipment
- Timely feedback

We create value for your products, since an uncompromising Quality Management System underlies all operations at PBTI, with guaranteed confidentiality about your product

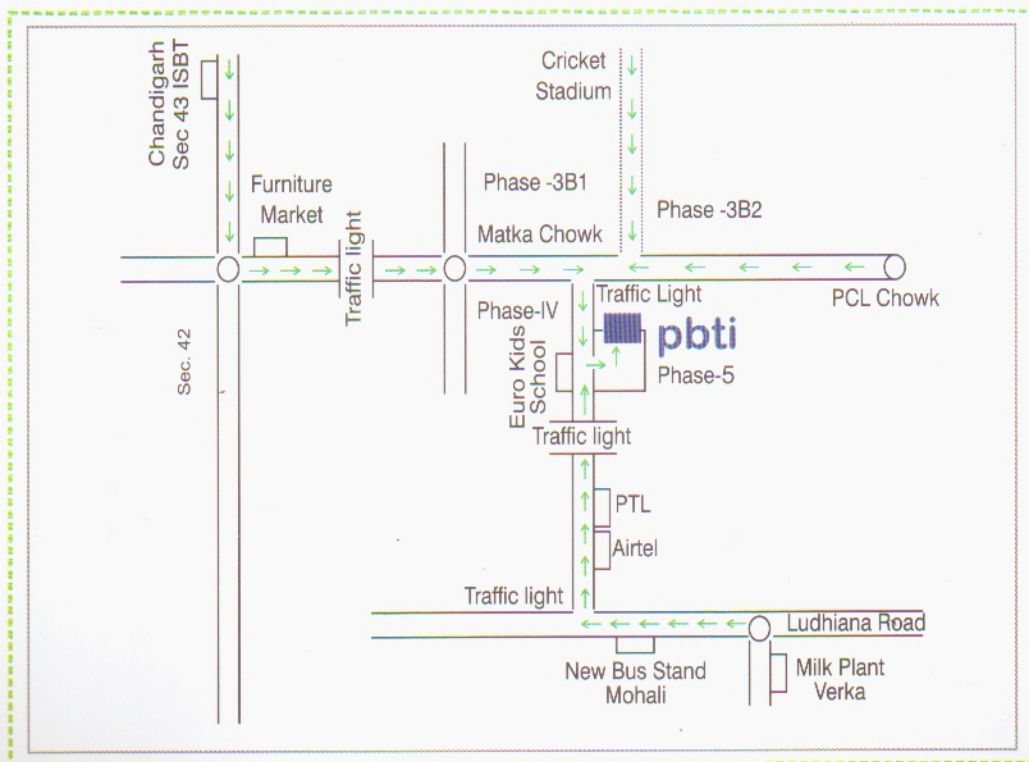


- We tailor our services to match your needs.
- Complete comprehensive facility under one roof

- SAS Nagar (Mohali)- Well connected with adjoining states
- Part of Knowledge City
- Vicinity of Prestigious institutes in tricity- IMTECH, CSIO, PGIMER, C-DAC, NIPER, CIAB, ISB, IISER, INST, and NABI
- Most attractive destination for - IT, BT & Higher Education



LOCATION MAP



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