

# Criterion – 3

Research, Innovations and Extension

NAAC- SSR (2<sup>nd</sup> Cycle)



## ETERNAL UNIVERSITY

BARU SAHIB, SIRMOUR-173101  
HIMACHAL PRADESH

# 3.3.1(2)

## State of the art laboratories



**ETERNAL UNIVERSITY**

BARU SAHIB, SIRMOUR-173101  
HIMACHAL PRADESH

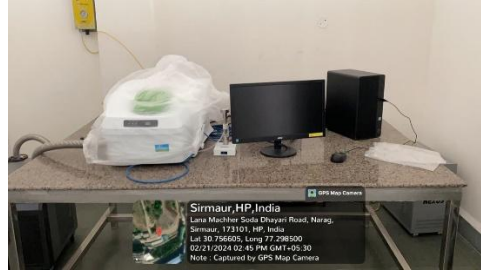
## AKAL FOOD SAFETY AND QUALITY CONTROL LABORATORY



**Gas Chromatography Mass Spectrophotometer (GCMS/MS)**



**High Pressure Liquid Chromatography (HPLC)**



**Differential Scanning Calorimeters (DSC)**



**UHPLC Amino acid analyzer**



**Liquid chromatography-mass spectrometry**



**Spectrophotometer**



**Water distillation unit**



**Centrifuge**

59.



**Ultrasonic cleaner**



**Ultra sonicator**



**Micro-digester**

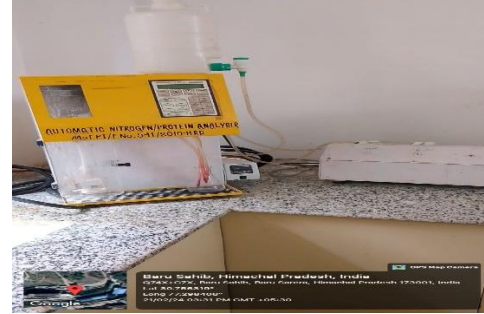


**Micro-digester**

**ANALYTICAL LABORATORY**



**Protein Digester**



**Protein Analyzer (Distillation Assembly)**



**SOXHLET PLUS**



**Crude Fiber Analyzer**



**Centrifuge**



**Weighing Balance**



**Freeze Dryer**



**Cooling Centrifuge**



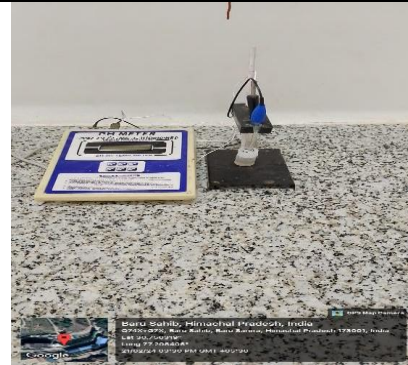
**Hot Plate**



**Rotary Evaporator**



**Muffle Furnace**








**pH meter**



**Ultrasonic cleaner**



**Ultra sonicator**

 <p>VACUUM PACKAGING MACHINE MoFPI/F.No. 0-11/2010/HP</p> <p>Bani Sahib, Himachal Pradesh, India GPA33097 N, Bani Sahib, Bani Sahib, Himachal Pradesh 173001, India Lat 30.756551 Long 77.208506 3/17/2024 02:50 PM GMT +05:30</p>	 <p>Bani Sahib, Himachal Pradesh, India GPA33097 N, Bani Sahib, Bani Sahib, Himachal Pradesh 173001, India Lat 30.756551 Long 77.208506 3/17/2024 02:50 PM GMT +05:30</p>
<p><b>Vacuum packaging machine</b></p>	<p><b>Vortex</b></p>
 <p>SPECTROPHOTOMETER MoFPI/F.No.0-11/2010-HRD</p> <p>Bani Sahib, Himachal Pradesh, India GPA33097 N, Bani Sahib, Bani Sahib, Himachal Pradesh 173001, India Lat 30.756551 Long 77.208506 3/17/2024 02:50 PM GMT +05:30</p>	 <p>VACUUM OVEN VACUUM OVEN WITH VACUUM PUMP MoFPI/F.No.0-11/2010 HRD</p> <p>Bani Sahib, Himachal Pradesh, India GPA33097 N, Bani Sahib, Bani Sahib, Himachal Pradesh 173001, India Lat 30.756551 Long 77.208506 3/17/2024 02:50 PM GMT +05:30</p>
<p><b>Spectrophotometer</b></p>	<p><b>Vacuum oven with vacuum pump</b></p>
 <p>Sirmaur, HP, India Luna Machine Sodia Dheyari Road, Naraq, Sirmaur, 173101, HP, India Lat 30.756551, Long 77.208506 02/21/2024 02:50 PM GMT +05:30 Note : Captured by GPS Map Camera</p>	 <p>Bani Sahib, Himachal Pradesh, India GPA33097 N, Bani Sahib, Bani Sahib, Himachal Pradesh 173001, India Lat 30.756551 Long 77.208506 3/17/2024 02:50 PM GMT +05:30</p>
<p><b>Ultrasonic cleaner</b></p>	<p><b>Ultra sonicator</b></p>
 <p>VACUUM PACKAGING MACHINE MoFPI/F.No. 0-11/2010/HP</p> <p>Bani Sahib, Himachal Pradesh, India GPA33097 N, Bani Sahib, Bani Sahib, Himachal Pradesh 173001, India Lat 30.756551 Long 77.208506 3/17/2024 02:50 PM GMT +05:30</p>	 <p>Bani Sahib, Himachal Pradesh, India GPA33097 N, Bani Sahib, Bani Sahib, Himachal Pradesh 173001, India Lat 30.756551 Long 77.208506 3/17/2024 02:50 PM GMT +05:30</p>
<p><b>Vacuum packaging machine</b></p>	<p><b>Vortex</b></p>

**Food Microbiology Unit**



Baru Sahib, Himachal Pradesh, India  
 Q782W+Q84, Baru Sahib, Baru Sereni, Himachal Pradesh 172001, India  
 Lat 30.734856°  
 Long 77.206003°  
 21/02/24 03:27 PM GMT +05:30

**Laminar Air Flow**



Baru Sahib, Himachal Pradesh, India  
 Q782W+Q84, Baru Sahib, Baru Sereni, Himachal Pradesh 172001, India  
 Lat 30.734856°  
 Long 77.206003°  
 21/02/24 03:27 PM GMT +05:30

**BOD**

**EXTRUSION UNIT**



Baru Sahib, Himachal Pradesh, India  
 Q78W+Q84, Baru Sahib Road, Baru Sahib, Near Nawari, Himachal Pradesh 172001, India  
 Lat 30.734856°  
 Long 77.206003°  
 21/02/24 03:14 PM GMT +05:30

**Extruder**



Baru Sahib, Himachal Pradesh, India  
 Q78W+Q84, Baru Sahib Road, Baru Sahib, Near Nawari, Himachal Pradesh 172001, India  
 Lat 30.734856°  
 Long 77.206003°  
 21/02/24 03:14 PM GMT +05:30

**Batch Roaster**



Baru Sahib, Himachal Pradesh, India  
 Q78W+Q84, Baru Sahib Road, Baru Sahib, Near Nawari, Himachal Pradesh 172001, India  
 Lat 30.734856°  
 Long 77.206003°  
 21/02/24 03:16 PM GMT +05:30

**Coating Pan**



Baru Sahib, Himachal Pradesh, India  
 Q78W+Q84, Baru Sahib Road, Baru Sahib, Near Nawari, Himachal Pradesh 172001, India  
 Lat 30.734856°  
 Long 77.206003°  
 21/02/24 03:17 PM GMT +05:30

**Packaging Machine**

**BAKERY UNIT**



Baru Sahib, Himachal Pradesh, India  
 Q73W+Q94, Baru Sahib Road, Baru Sahib, Nari Nawan, Himachal Pradesh 173001, India  
 Lat 30.754856°  
 Long 77.296003°  
 21/02/24 03:10 PM GMT +05:30

**Flour Mill**



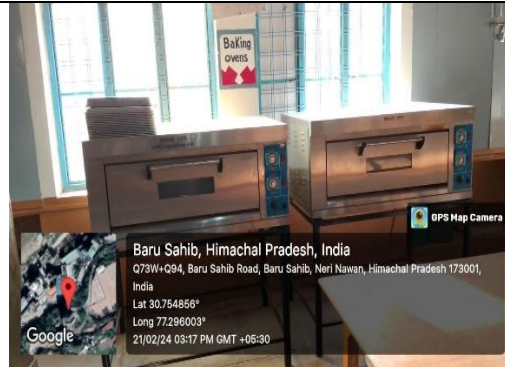
Baru Sahib, Himachal Pradesh, India  
 Q73W+Q94, Baru Sahib Road, Baru Sahib, Nari Nawan, Himachal Pradesh 173001, India  
 Lat 30.754856°  
 Long 77.296003°  
 21/02/24 03:10 PM GMT +05:30

**Dough Mixer**



Baru Sahib, Himachal Pradesh, India  
 Q73W+Q94, Baru Sahib Road, Baru Sahib, Nari Nawan, Himachal Pradesh 173001, India  
 Lat 30.754856°  
 Long 77.296003°  
 21/02/24 03:10 PM GMT +05:30

**Proofing Chamber**



Baru Sahib, Himachal Pradesh, India  
 Q73W+Q94, Baru Sahib Road, Baru Sahib, Nari Nawan, Himachal Pradesh 173001, India  
 Lat 30.754856°  
 Long 77.296003°  
 21/02/24 03:17 PM GMT +05:30

**Baking Oven**



Baru Sahib, Himachal Pradesh, India  
 Q73W+Q94, Baru Sahib Road, Baru Sahib, Nari Nawan, Himachal Pradesh 173001, India  
 Lat 30.754856°  
 Long 77.296003°  
 21/02/24 03:15 PM GMT +05:30

**Noodle pasta making machine**



Baru Sahib, Himachal Pradesh, India  
 Q73W+Q94, Baru Sahib Road, Baru Sahib, Nari Nawan, Himachal Pradesh 173001, India  
 Lat 30.754856°  
 Long 77.296003°  
 21/02/24 03:28 PM GMT +05:30

**Hot Air Oven**

**FRUIT AND VEGETABLE PROCESSING UNIT**



Baru Sahib, Himachal Pradesh, India  
 Q73W+Q94, Baru Sahib Road, Baru Sahib, Nari Nawan, Himachal Pradesh 173001, India  
 Lat 30.754856°  
 Long 77.296003°  
 21/02/24 03:15 PM GMT +05:30

**Fruit Crusher**



Baru Sahib, Himachal Pradesh, India  
 Q73W+Q94, Baru Sahib Road, Baru Sahib, Nari Nawan, Himachal Pradesh 173001, India  
 Lat 30.754856°  
 Long 77.296003°  
 21/02/24 03:15 PM GMT +05:30

**Fruit Juice Extractor**





**Fruit Pulper**



**Homogenizer**



**Hydraulic Press**



**Microwave oven**



**Potato Peeler**



**Potato Slicer**

**STEAM PROCESSING UNIT**



**Boiler**



**Retort pouch machine**



**Steam Jacketed Kettle**



**Shrink packaging machine**