

GOVERNMENT OF KERALA
CBPST, KOCHI
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GOVERNMENT OF KERALA

Abstract

Industries Department – Centre for Biopolymer Science & Technology(CBPST)- Recognised - Orders issued.

74/gov/18
Testing Lab / 24.9.17
[Signature]

INDUSTRIES (J) DEPARTMENT

G.O.(Rt)No.1349 /2017/ID

Dated, Thiruvananthapuram, 22.09.2017

Read : Letter No.CIPET-CBPST/Testing/2017-18 dated, 10.08.2017 from the Department of Chemicals & Petrochemicals, Government of India.

ORDER

Centre for Biopolymer Science & Technology (CBPST) at Eloor, Kochi is a unit of Central Institute of Plastics Engineering and Technology (CIPET), a premier national Institution under the Department of Chemicals & Petrochemicals, Government of India.

The centre has set up Plastic Testing Laboratory which is accredited by NABL and having ISO 9001 QMS certification and is recognized by BIS for testing PVC/HDPE Pipes and fittings, packing films, carry bags, water storage tanks ,food/grain packaging etc.

It is envisaged that Government departments / Organisations /Agencies can utilize the service of CBPST, and their expertise and competency for inspection of HDPE /PP bags , other plastics products etc.

Therefore, Government are pleased to recognize CBPST (a unit of CIPET) Kochi as third party agency for Inspection/ Testing of Plastic materials and products for considering a Government of India laboratory with NABL & BIS recognition.

(By Order of the Governor)

K. RADHAKRISHNAN,

JOINT SECRETARY TO GOVERNMENT.

To

✓ The Director & Head , Centre for Bio Polymer Science & Technology (CBPST) JNM Campus,
Eloor, Kochi -683501

Director of Industries & Commerce, Vikas Bhavan, Thiruvananthapuram.

Food & Civil Supplies Department

Agriculture Department.

HortiCulture Department.

Urban/Rural Development Department.

Irrigation Department.

Local Self Government Department.

Public Works Department.

Information & Public Relations (Web& New Media) Department

(For publishing in the official website)

Office Copy/ Stock File.

Forwarded / By Order,

[Signature]

Section Officer.

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Product Testing Facilities

Testing facilities are available for the following products

u PVC Pipes, HDPE Pipes & Fittings, Profiles, PPR pipes, FRP composites, Plastic crates, Plastic films/Pouches/Sheets, Plastic containers, Floats, water tanks, woven sacks, grow bags, uPVC Pipes, HDPE Pipes & Fittings etc. and all other tests as per National and International standards.



HDPE Pipes



uPVC Pipes



PVC Socket fittings



Water storage tanks



HDPE floats



FRP boats



Woven sacks



Grow bags



Milk crates



Milk Pouches



Plastic films



Plastic cabinets

Centre for Biopolymer Science & Technology (CBPST)
Eloor, Udyogamandal P. O., Kochi - 683 501

CONTACT DETAILS

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www.cipet.gov.in



**Centre for Biopolymer Science & Technology
(CBPST)**

**PLASTICS TESTING
CENTRE**

(NABL Accredited/BIS Recognized/ISO 9001 Certified Laboratory)



Centre for Biopolymer Science & Technology (CBPST)

(A UNIT OF CIPET)
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Institute Profile



Centre for Biopolymer Science and Technology (CBPST), is a unit of CIPET established at Kochi, Kerala in the year 2012. Central Institute of Plastics Engineering & Technology (CIPET) is a premier national institution under the aegis of the Ministry of Chemicals & Fertilizers, Govt. of India fully devoted to Skill Development, Technology Support Services, Academic and Research (STAR). CIPET operates on hub & spokes model with 32 locations spread across the country catering to the needs of Polymer and allied industries. CIPET renders Technology Support Service in the areas of design, tooling, plastics processing and testing and quality assurance in India and abroad. CIPET has been in the forefront of strengthening the technological capabilities and has been constantly building capacities and leveraging its expertise, caliber and skill sets to meet the emerging and evolving needs of the industries. CIPET is an ISO-9001 certified, NABL, BIS & NABCB Accredited Institute.

CBPST undertakes third party inspection services of plastic products such as uPVC/HDPE/PPR pipes, woven sacks etc. for different government/private organisations. CIPET is the only Government inspection agency accredited by NABCB inspection services in the field of plastic technology. Plastic testing laboratory has been accredited by NABL and the product tests are recognised by BIS.

Major Tests

Identification of polymers, composition analysis

Migration Test (food grade)

Mechanical Properties

- Tensile tests
- Flexural tests
- Impact tests
- Hardness (Shore A and Shore B) etc.

Thermal Properties

- Melt Flow Index
- Heat Distortion Temperature
- Vicat Softening Temperature etc.

Chemical Properties

- Ash content
- Carbon black content
- Environmental Stress Crack Resistance etc.

Permeability Tests (MVTR/OTR)

Opacity /Light Transmission



Major Test Facilities/Equipments



- Universal Testing Machine (UTM)
- Differential Scanning Calorimetry (DSC)
- Thermogravimetric Analysis (TGA)
- UV Spectrophotometer
- Water Vapour Transmission Rate Tester
- Gas Permeability Tester
- Izod/Charpy Impact Tester
- CHNSO-Analyser
- Gas Chromatography
- Polarised Optical Microscope
- Brookfield Viscometer
- Moisture Analyser
- Melting Point apparatus
- Air Oven
- Muffle Furnace
- Hydrostatic Pressure Tests/Reversion
- Vibration Leakage Tests
- Contour Cutter
- Twin Screw Extruder
- Two roll mill
- Biodegradability Testing Facility



Products under BIS recognition

- High Density Polyethylene Pipes for Water Supply as per IS 4984
- Unplasticized PVC Pipes For Potable Water Supplies as per IS 4985
- Rotational Moulded Polyethylene Water Storage Tanks as per IS 12701
- Containers for Packing of Natural Mineral Water and Packaged Drinking Water as per IS 15410
- Irrigation laterals as per IS 12786
- Injection Moulded PVC Socket Fittings with Solvent Cements Joints for Water Supplies as per IS 7834 P (1-8)
- Irrigation Equipment - Sprinkler Pipes: Polyethylene Pipe as per IS 1451 (P-1) & (P-2)
- Fabricated PVC-U Fittings for Potable Water Supplies as per IS 10124