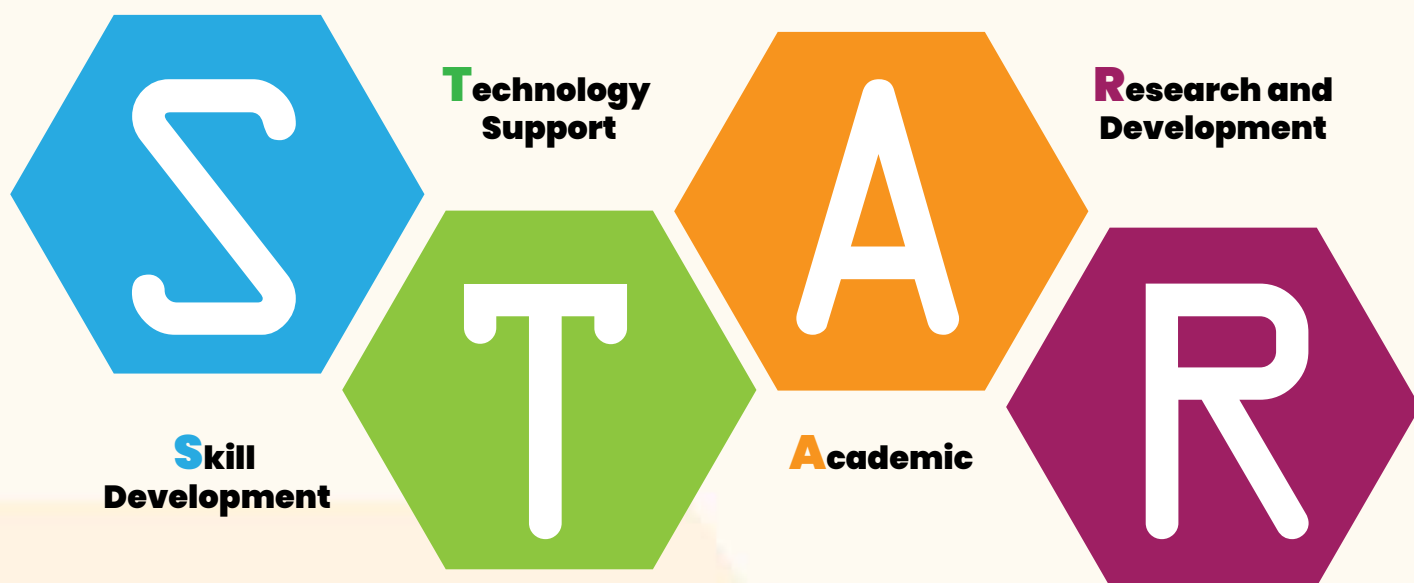


CIPET



Central Institute of Petrochemicals Engineering & Technology (CIPET)

(Department of Chemicals & Petrochemicals, Ministry of Chemicals and Fertilizers, Govt. of India)

HEHAL, RANCHI, JHARKHAND – 834005

ABOUT CIPET: CSTS – RANCHI



CIPET: CSTS - Ranchi was established in the year 2017 to cater the needs of plastics and allied industries in Jharkhand and other adjoining areas. The institute is situated in the holistic land of Bhagwan Birsa Munda at Ranchi and spread over sprawling area of having 13.00 acres Administrative buildings, hostel, Workshops and adequate green landscape for extracurricular activities and equipped with the state of the art facilities in Design, CAD/CAM/CAE, Tooling, Plastic Processing, Testing, Quality Control & Inspection services in order to meet the customer requirements of Plastics & allied industries.

The facilities of the centre have been modernized through joint support of Govt. of India and Govt. of Jharkhand. The institute is well equipped with audio visual facilities and computers with advanced CAD software. CIPET : CSTS - Ranchi will specially focus to provide employment oriented academic programs and skill development training programs for the unemployed youths of Jharkhand state. Also to provide technical support services to the plastics and allied industries and their growth in the state of Jharkhand.

VISION & MISSION

VISION

To become an apex Institute of International repute in the field of Petrochemicals Engineering and Technology and ensure sustainable growth.

MISSION

To offer blend of specialized Academic and Skill Development Training Programs in the field of Petrochemicals Engineering & Technology in order to provide qualified Human Resources with entrepreneurship qualities for Petrochemical & Allied Industries; To provide Technology Support in the form of Consultancy Services in the fields of design, tooling, plastics processing, testing & quality assurance and Inspection Services to the Petrochemical Industries including plastic industries through a Quality Management System;

Dedicated R&D wings on Petrochemicals will develop New Technology, Applications & Handholding Entrepreneurs by Technology Transfer, Intellectual Property (IP) and Knowledge Base.

ACADEMIC PROGRAMS

Considering the growth of Plastic Industries in Jharkhand and expansion of existing plastics & allied industries in the surroundings, demand for the trained manpower is ever increasing in Jharkhand. In order to meet the same, the following Long Term Courses are conducted at CIPET: CSTS - Ranchi from the Academic year 2019-20 with AICTE approval from Academic year 2019-20.



DIPLOMA PROGRAMS

DIPLOMA IN PLASTICS TECHNOLOGY

Course Code : DPT

Duration : 3 years

Entry Qualification : Full time 10th Std.

Selection & eligibility as per CIPET Admission Procedure.
For admission, Please apply through CIPET JEE.

DIPLOMA IN PLASTICS MOULD TECHNOLOGY

Course Code : DPMT

Duration : 3 years

Entry Qualification : Full time 10th Std.

Selection & eligibility as per CIPET Admission Procedure.
For admission, Please apply through CIPET JEE.



LATERAL ENTRY TO SECOND YEAR DIPLOMA COURSE – DIPLOMA IN PLASTICS TECHNOLOGY

Course Code : DPT

Duration : 2 years

Age : No Age Limit

Entry Qualification : 2 years Passed 10+2 examination with Physics and Chemistry as compulsory subjects along with Mathematics / Biology subject.

Or

10+2 Science (with Mathematics as one of the Subject)
or 10+2 Science with Technical Vocational subject.

Or

10th + (2 years ITI) with appropriate Trade (any one of subjects studied : General Machinist / Draughtsman Mechanical / Fitting / Plastics / Polymer / Chemical Technology) shall be eligible for admission to Second Year Diploma Course(s) of appropriate Programme.

LATERAL ENTRY TO SECOND YEAR DIPLOMA COURSE – DIPLOMA IN PLASTICS MOULD TECHNOLOGY

Course Code : DPMT

Duration : 2 years

Age : No Age Limit

Entry Qualification : 2 years Passed 10+2 examination with Physics and Chemistry as compulsory subjects along with Mathematics/ Biology subject.

Or

10+2 Science (with Mathematics as one of the Subject)
or 10+2 Science with Technical Vocational subject.

Or

10th + (2 years ITI) with appropriate Trade (any one of subjects studied : General Machinist / Draughtsman Mechanical / Fitting / Plastics / Polymer / Chemical Technology) shall be eligible for admission to Second Year Diploma Course(s) of appropriate Programme.



Student Induction Program for Diploma Students

INFRASTRUCTURE

Facilities

- WIFI CAMPUS
- LECTURE HALLS
- SEMINAR HALLS
- WELL EQUIPPED LABORATORIES
- CAFETERIA
- MEDICAL FACILITY
- RO DRINKING WATER
- READING ROOMS
- ROUND THE CLOCK SECURITY
- PARKING FACILITY
- CCTV SURVEILLANCE
- SPORTS & GAME FACILITY

Class Room



Computer Lab



Library



CULTURAL ACTIVITIES



HOSTEL



ACCOMMODATION FOR OVER 300 STUDENTS ON CAMPUS

Hostels have been built to provide students with a safe and welcoming environment. On-campus, there are separate hostel facilities for boys and girls. The living areas are designed to promote harmony. We have gone to great lengths to keep the surroundings green and fresh. Such an environment fosters the development of productive thoughts and ideas. It serves as a student's "home away from home."

- Wi-Fi in hostel blocks
- RO drinking water
- Hygienic kitchen & quality food
- 24-hour Security

SHORT TERM TRAINING PROGRAMS

INDUSTRY PROGRAMS

CIPET conducts industry specific/oriented Short-term / technology up-gradation / modular / tailor-made programs for updating the knowledge of technical personnel working in different fields of Plastics and allied industries. Depending upon the need of the industries and development of new technology in the field, Short-term courses are tailored in such a way that the industries could derive maximum benefits out of it. Through such programs, personnel from plastics industries acquaint themselves with the latest trends in technology and get their technical problems solved through interaction and exchange of ideas with CIPET faculty.

CIPET conducts following programs for the Industries in all the key domains, viz. Plastics processing, Manufacturing of moulds & dies, Testing & Quality control and CAD/CAM/CAE:

- Short Term Programs
- Modular Training Programs
- Entrepreneurship Development Programs

TRAINING PROGRAMS CONDUCTED UNDER VARIOUS SCHEMES:

CIPET: CSTS - Ranchi is regularly conducting job oriented skill development training programs sponsored by various State and Central Govt. Organizations for the unemployed youths of Jharkhand state. Some of the sponsoring agencies are:

- Directorate of Municipal Administration (DMA) - Urban Development & Housing Department, Govt. of Jharkhand, under DAY-NULM
- Jharkhand Industrial Infrastructure Development Corporation (JIIDCO), Govt. of Jharkhand Undertaking
- National Backward Classes Finance Development Corporation (NBCFDC) & National Schedule Castes Finance and Development Commission (NSFDC) Ministry of Social Justice & Empowerment, Govt. of India
- Coal India Limited (CIL), a Government of India company
- Central Coal field limited, a Government of India company
- Central Mine Planning & Design Institute Limited (CMPDI), a Government of India enterprise
- MECON limited, a Government of India enterprise
- Bharat Coking Coal Limited (BCCL), Dhanbad, a Public Sector Undertaking
- NTPC Coal Mining Headquarter, Ranchi, a Government of India enterprise

The following courses are being offered to the unemployed youths.

QUALIFICATION PACK NAME	QP CODE	NSQF LEVEL	TOTAL HOURS
Machine Operator - Plastics Processing (MO-PP)	CPC/Q 0103 CPC/Q 0104	3 / 4	480 / 960
Machine Operator - Injection Moulding (MO-IM)	CPC/Q 0203 CPC/Q 0204	3 / 4	480 / 960
Machine Operator - Plastics Extrusion (MO-PE)	CPC/Q 0303 CPC/Q 0304	3 / 4	480 / 960
Machine Operator - Blow Moulding (MO-BM)	CPC/Q 0403 CPC/Q 0404	3 / 4	480 / 960
Machine Operator - Plastics Recycling (MO-PR)	CPC/Q 2903 CPC/Q 2904	3 / 4	480 / 960
Machine Operator - CNC Lathe	CPC/Q 7003	3	480
Machine Operator - CNC Milling	CPC/Q 7103	3	480
Testing & QC for Plastics Materials & Products - Technician	CPC/Q 8103	3	480
Machine Operator - Tool Room	CPC/Q 5104	4	960
Machine Operator & Programmer - CNC Lathe	CPC/Q 7004	4	960
Machine Operator & Programmer - CNC Milling	CPC/Q 7104	4	960

Apart from that, various modular / tailor made courses are also organized for the passed out and students pursuing various courses in Diploma, Degree in Engineering colleges and ITI's for improvement of technical skill in the area of Mechanical Engineering, CAD/CAM/CAE, Plastics Engineering etc. CIPET: CSTS - Ranchi also organize entrepreneurship development training programs, Training for Semi-skilled and Un-skilled working personnel of various plastics industries located in Jharkhand State in the following fields.

- Mould Making Technician
- Plastics Processing Operator
- Plastics Processing Operator - Injection Moulding
- Plastics Processing Operator - Blow Moulding
- Plastics Product and Mould Design
- Plastic Mould Manufacturing
- Design Through Auto-CAD
- CAD / CAM Through Pro-E / UG / CATIA
- CNC Lathe Programming and Operation
- CNC Milling Programming and Operation
- Testing & Quality Control for Plastics Materials and Products



GLIMPSES OF VTC/STC PROGRAMMES AT CIPET RANCHI



Valedictory of NBCFDC Sponsored SDTP on 25.04.2022
Course Name-MO-PP (Duration- 25.10.2021 – 24.04.2022)



Valedictory of CCL, Ranchi on 04/08/2022 in presence of Shri Ladi Balakrishna, GM (CSR/SD), CCL, Ranchi
Course Name-MO-PP & MO-IM (Duration- 08/02/2022 – 05/08/2022)



Valedictory of MSME-NSIC , New Delhi Sponsored SDTP on 22/08/2022
in presence of Shri Binod Kumar, Branch Head, NSIC, Ranchi
Course Name-MO-PP, Duration- 21/02/2022 – 22/08/2022



Conducted 2-Day Workshop on Transition to Alternatives to SUP in-line to Implementation of Plastics Waste Management (PWM) Rule: 2021 (Amendment) in MSME Units" at CIPET Ranchi on 13th & 14th June 2022

MAJOR SPONSORS



सेंट्रल कोलफील्ड्स लिमिटेड
Central Coalfields Limited
(A subsidiary of Coal India Limited)



Bharat Coking Coal Limited



MSME
MICRO, SMALL & MEDIUM ENTERPRISES
सुख, समृद्धि एवं मजदुरी का दिन



cmpdi
A Mini Ratna Company



DAY-NULM
Deendayal Antyodaya Yojana-National Urban Livelihoods Mission

Placement Activities

CIPET takes great pride in announcing that we consistently achieve an 85-90% placement record for our students. From the remaining 10 - 15%, 5% decide to be entrepreneurs and the remaining continue on with higher studies.

Training programs like mock interviews, group discussions and communication skills training equips our students with the confidence for the recruitment process. All recruitment follows our placement guidelines.

PLACEMENT PARTNERS

BANCO Gujarat	KUMAR ELASTOMER INDIA PVT. LTD., Bangalore, Karnataka	TAKAHATA PRECISION INDIA PVT. LTD., Bhubaneswar	JAYSHREE POLYMERS PVT LTD, Pune	PPAP AUTOMOTIVE LIMITED, Rajasthan	MANGALAM PLASTIC, Ranchi	KHERIA AUTOCOMP LTD, Ahmedabad
KUMAR ELASTOMER PVT LTD, Pune	OKAY INDUSTRIES, Pune	PG ELECTROPLAST LIMITED Pune, Maharashtra	NIRMALA ROTOPLAST, Ranchi	PARAMOUNT POLYMER PVT LTD, Pune	TATA AUTOCOMP SYSTEMS PVT LTD, Pune	PREMIER SEALS INDIA PVT LTD, Pune
ElringKlinger Automotive Components (India) Pvt. Ltd, Pune, Maharashtra	FLEETGUARD FILTERS PVT. LTD. Saranskala Kharwaran, Bharatnagar	FIEM INDUSTRIES LIMITED Sonapat, Haryana	Marelli Moeherson Automotive Lighting India Pvt. Ltd, Haryana	FINE TOOLS INDIA PVT LTD, Bangalore, Karnataka	SARK INDUSTRIES Chandigarh, UT	SARK GENEX Baddi, Himachal Pradesh
MANN+HUMMEL FILTER PRIVATE LTD, Rajasthan	INTERNATIONAL AUTOMOTIVE INDIA PVT LTD, Pune, Maharashtra	M/s SPECTRUM TOOL ENGINEERS PVT. LTD., Bangalore, Karnataka	SECURE GROUP INDUSTRIES PVT. LTD, Hyderabad, Telangana	VFORM TECHNOPACK PVT. LTD, Hyderabad, Telangana	PAKSH WIRE CUT Gujarat	Nipro India Corporation Private Limited, Pune

SOFT SKILL TRAINING



MOCK INTERVIEW



INTERNSHIP & PLACEMENT



CAMPUS INTERVIEW ONLINE



TECHNOLOGY SUPPORT SERVICES (TSS)

Technical Support Services (TSS) is an integral part of the activities of CIPET. CIPET renders services to its customers in Plastics Processing, Tooling, Precision Component Machining on CNC machines, Design and Manufacturing of Moulds for Plastic and allied products, Plastics product manufacturing, Pre-Delivery Inspection and Testing & quality control for Plastic materials & products.

Processing

<ul style="list-style-type: none"> Injection Moulding Machine of S&T Make ranging from 80T to 500T 	<ul style="list-style-type: none"> Thermoforming Machine
Capabilities: <ul style="list-style-type: none"> Moulding from 5gm to 1.5 kg Moulding of: PP, PE, Nylon, PC, PU, ABS, EVA etc. Moulding of Domestic Parts, Automobile Parts & Engineering Parts etc. 	<ul style="list-style-type: none"> Rotational Moulding Machine-500 Litres Pipe Extrusion Machine Recycling Extruder with pelletizing machine Scrap Grinder Blow molding machine, 1 Ltr Capacity



Microprocessor Controlled Automatic Injection Moulding Machine-500T



Microprocessor Controlled Automatic Injection Moulding Machine-350T



Microprocessor Controlled Automatic Injection Moulding Machine-180T



Microprocessor Controlled Automatic Injection Moulding Machine-130T



Recycling Extruder



Single Layer Film Plant



HDPE Pipe Extruder



Blow molding machine

Tool Room

Tool Room division with its state of the art of CNC milling, Lathe, Wire-cut EDM and spark Erosion EDM facilities undertakes Job Order and Mould Order from various Govt./Private bodies. The job involves a sequence of skillful tooling operations for achieving dimensional tolerance in micron levels even in complicated profiles.

- CNC Lathe Machines
- CNC Milling Machines
- CNC EDM and Wirecut EDM Machines
- Conventional Lathe Machines
- Conventional Milling Machines
- Pantograph Engraving
- Shaping Machines
- Tool & Cutter Grinder
- Cylindrical Grinding Machines
- Surface Grinding Machines
- Pedestal Grinding Machines
- Pillar Drilling
- Radial Drilling
- Co-Ordinate Measuring Machine (CMM)



CNC Lathe



CNC Milling



CNC EDM



CNC Wire cut EDM



Milling (Universal)



Surface Grinder



Shaper



Radial Drilling



Pillar Drilling



Tool & Cutter Grinder

Testing Machines

CIPET, Ranchi Testing laboratories are NABL accredited as per ISO/IEC 17025: 2017. CIPET is also providing services of third party inspection service accredited by NABCB as per ISO/IEC 17020: 2012. Testing laboratory of the centre is well equipped with state of the art testing facilities for carrying out testing of plastics and related products as per various National and International Standards.

1. CIPET, Ranchi is providing testing services for various products (UPVC/HDPE/CPVC/PPR/CORRUGATED/GAS Pipes Films, Woven Sacks, Micro Dippers, Sprinklers, Emitters, Helmets, Shade Net, Tarpaulin, FRP Product etc.) as per BIS/ISO/ASTM standards. Laboratory meets ISO/IEC-17025: 2017 norms of general requirement of laboratory and accredited by NABL, New Delhi.
2. Testing service of CIPET, Ranchi is regularly utilized by Government of Jharkhand and other private agencies/ industries.

Density	MFI	UTM	Vicat Softening Point
CBC	Haze/ clarity	Opacity	Contour Cutter
CBD	Hydrostatic Pressure Test	ESCR	Hot air Oven
Flammability Tester	High Temperature Bath	Failing Weight Dart Impact	Two Roll Mill
Muffle Furnace	Hydraulic Compression Moulding	Heat Deflection Temperature	Differential Scanning Calorimetry (DSC)



ESCR Apparatus



Long/Short Term Hydrostatic Pressure Test Apparatus for Pipes



Haze/Clarity Meter



End Fittings for Pressure Test of Pipe (12 mm to 315mm)



Melt Flow Index



Dielectric Strength Apparatus



Universal Tester 50 KN (UTM)



Precision Balance



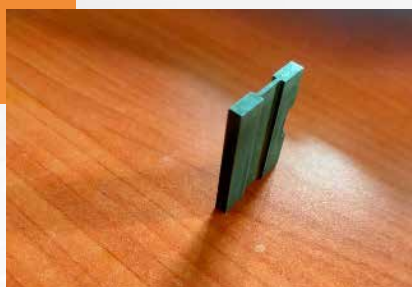
Opacity Tester

Technology support Services

The following products has been manufactured at CIPET: CSTS, Ranchi under Technology Support Services.



20 Ltr. Pail Container



Wire cutting of Stripper Inserts



Processing of PP Inner Cap



Machining of MS Screw Plug



Fixture Machining



Processing of PP Bottle Cap



Cosmic Paver Block Plastics Mould



Rock Paver Block Plastics Mould

CONSULTANCY AND TECHNICAL SERVICES

CIPET undertakes Consultancy and Technical services in the following areas:

- Capacity assessment of the vendor
- Testing & Quality assessment of Plastics Materials and products as per National & International Standards.
- Identification and Characterization of plastics and composites.
- Impact Assessment of Micro Irrigation Schemes.
- Design and Development of New Material / compounds & troubleshooting.
- Recycling and Waste Management.
- Development of Specification of Plastics Products for New Application.
- Laboratory Assessment & Development of Quality Management System.
- Third Party Inspection Services (Pre/Post Delivery) as per ISO/IEC-17020: 2012 for various plastics & allied materials / item procured.

ACCREDITATION AND APPROVALS



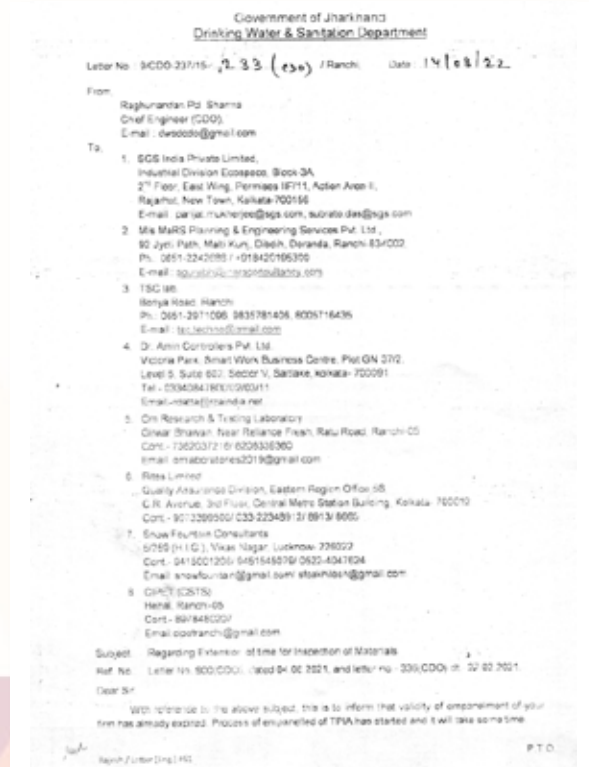
ISO 9001: 2015



ISO/IEC 17020: 2012



NABL Accreditation as per ISO/IEC 17025: 2017



Govt. of Jharkhand Order for Empanelment of Third Party Inspection Agencies

Contact Details

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