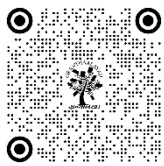


PROFILE OF NATIONAL POWER TRAINING INSTITUTES

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ABSTRACT

This paper explores the utilization of information and resources within the libraries of the National Power Training Institute (NPTI) and evaluates their impact on the development of print and digital collections. It also assesses user awareness and usage behaviour. As a premier national organization under the Ministry of Power, NPTI has emerged as a key player in power sector education and training, with its academic initiatives aligning closely with the National Education Policy 2022. The study highlights the current status, challenges, and opportunities related to library and resource management at NPTI, emphasizing the role of information services in supporting power engineering education. Key recommendations include enhanced government funding for ICT infrastructure, consortium-based resource sharing, digitization of rare materials, policy support for standardization, and initiatives to improve user awareness and digital literacy. The paper advocates for a transformative approach in which libraries at training institutions like NPTI evolve into proactive, digital-first knowledge hubs that support national development goals and adopt global best practices.

Keywords: E-Resources, Library Challenges, Power Sector Training, NPTI, Digital Transformation, National Education Policy, Resource Management



1. INTRODUCTION

The National Power Training Institute (NPTI), an ISO 9001 & 14001 certified apex training body under the Ministry of Power, Government of India, has played a pivotal role in Human Resource Development in the power sector. Since its formal inception on April 1, 1993, NPTI has trained over 3,20,000 professionals. With a pan-India presence and comprehensive training frameworks including simulator-based learning, NPTI's programs cover generation, transmission, distribution, renewable energy, and policy orientation, significantly contributing to capacity enhancement and operational efficiency in the power sector.

2. VISION, MISSION, VALUES, ATTITUDE, AND OBJECTIVES

NPTI operates with a strategic commitment to advancing human capital for the energy sector:

- **Vision:** To be a global center of excellence in training and skill development for the Power and Energy sectors.
- **Mission:** Enhance human and organizational excellence by integrating clean energy technologies and sustainable practices.
- **Values:** Commitment to quality, knowledge sharing, and client-centric service delivery.
- **Attitude:** Empower professionals through motivation and purposeful training.

2.1. OBJECTIVES

- 1) Equip professionals with emerging technologies.
- 2) Bridge gaps between academic output and industry requirements.
- 3) Support national initiatives like DDUGJY, UDAY, and 24x7 Power for All.
- 4) Promote Smart Grid, DSM, Energy Efficiency, and Rural Development.

3. PROGRAM FRAMEWORK AND OFFERINGS

NPTI offers structured programs to meet the dynamic demands of the energy sector. Key offerings include:

- 1) Skill Development: Solar, wind, hydro, smart grid, and bio-energy technologies.
- 2) Target Audience: Fresh graduates, engineers, utility personnel, academic trainers.
- 3) Special Programs: Renewable energy, decentralized generation, DSM, regulatory affairs, and international cooperation programs.
- 4) Collaborations: With IITs, IIMs, TERI, and international bodies like USAID, SAARC.

NPTI Operates on an All-India Basis Through its Eleven Institutes in Different Zones of the Country as per Table no. 1 Below:

Sn	Region	Institute
	Northern	NPTI Corporate Office, Faridabad NPTI (Northern Region) Badarpur, New Delhi NPTI (Hydro Power Training Centre), Nangal
	Southern	NPTI (Power System Training Institute), Bengaluru NPTI (Hot Line Training Centre), Bengaluru NPTI (Southern Region), Neyveli NPTI, Alappuzha
	Eastern & North Eastern	NPTI (Eastern Region), Durgapur NPTI (North Eastern Region), Guwahati
	Western	NPTI (Western Region), Nagpur NPTI, Shivpuri
	Northern Region	NPTI Corporate Office, Faridabad NPTI (Northern Region) Badarpur, New Delhi NPTI (Hydro Power Training Centre), Nangal

4. INTEGRATED MANAGEMENT AND GEOGRAPHICAL PRESENCE

NPTI functions through 11 institutes across five regions:

- **Region** Institute Location
- **Northern** Faridabad, Badarpur (Delhi), Nangal
- **Southern** Bengaluru (PSTI & HLTC), Neyveli, Alappuzha
- **Eastern & NE** Durgapur, Guwahati
- **Western** Nagpur, Shivpuri

5. FACULTY AND INFRASTRUCTURE

- **Faculty:** Experienced field engineers and guest faculty from reputed utilities.
- **Infrastructure:**

- **Simulators:** Full-scope simulators for thermal and gas power plants.
- **Labs:** Instrumentation, mechanical, electrical, and maintenance workshops.
- **AV Aids:** Smart classrooms, projectors, and video conferencing.
- **Recreational Facilities:** Hostels, sports, conference halls, and auditoriums.

6. AWARDS AND RECOGNITION

NPTI has received national and international awards, including:

Mother Teresa Memorial National Gold Award

ISTD Award for HRD practices

ENERTIA VAJRA Book Award

ISO certifications for quality and environment

Excellence in Training by Employer Brand Awards

7. NPTI LIBRARIES AND E-RESOURCES

7.1. LIBRARY PROFILE

Each NPTI institute hosts a dedicated library with an extensive collection of books, journals, and media on engineering, management, and energy technologies. Subscriptions include Indian and international periodicals.

Types of E-Resources: as per Table no. 2 Below:

S. N.	E-Resource Type	About
1	E-Book	e-books are available in many formats pdf, can be read through adobe reader, Kindle, ipad, e-reader, Microsoft Reader, Mobipocket Reader
2	E-Journal	E-journals are with digital information relevant to particular subject.
3	E-Newspaper	It is an online document readable from any corner of the world.
4	E-Magazines	E-magazines are application of Information technology communication.
5	Indexing & Abstracting Databases	All the information about expected research paper or Journal, volume, book we can get through these.
6	Full Text Database	Many Dictionaries, Encyclopedias almanacs are available online
7	Reference Database	Contains useful numerical data for mass community
8	Statistical Database	Contains e-images
9	Image collection	Multimedia Products
10	E-Thesis	Contains,e-thesis,e-dissertations for research purpose.
11	E-Clipping	For retrospective search
12	E-Patents	To make use of an invention for specific period.
13	E-Standards	Written definitions,rules, approved by Authoritative Agency.

E-Resources Collection in NPTI Libraries as per Table no. 3 Below:

S.N.	E-resources	No. Of NPTI Libraries	Percentage (%)
1	CD/DVDs	6	54.55
2	Databases	6	54.55
3	CBT Packages	10	90.9

4	No e-resources	5	54.55
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Mode or forms of E-Resources Collection in Libraries as Per Table no. 4 Below:

S. N.	Types of e-resources	No. of NPTI Libraries	Percentage (%)
1	Microfilms	01	9.09
2	Floppies	06	54.55
3	Cassettes	06	54.55
4	CD/DVDs	06	54.55
5	Hard Discs	09	81.81
6	Libraries having Database	02	18.18

Growth of E-Resources During Last 3 years as Per Table no. 5 Below:

S. N.	Acquisition of e-resources	No. of NPTI Libraries	Percentage (%)
1	Since Last 1 Year	02	18.18
2	Since Last 1 Year	06	54.55
3	Since Last 1 Year	10	90.9
4	Not acquired yet	01	9.09

Budget Spent on E-Resources as Per Table no. 6 Below:

S. N.	Year	No. of NPTI Libraries	Percentage (%)
1	2012-13	4	36.36
2	2011-12	4	36.36
3	2010-11	7	54.55
4	Budget not spent on e-resources	8	72.72

Subscription of Consortia as Per Table no. 7 Below:

S. N.	Subscriptions of Consortia	No. of NPTI Libraries	Percentage (%)
1	N-LIST	NIL	NIL
2	INDEST	4	36.36
3	INFONET	NIL	NIL
4	J-GATE	4	36.36
5	Subscribed but not mentioned	1	9.09
6	Not subscribed	7	54.55

Download of E-Resources as Per Table no. 8 Below:

S. N.	Types of e-resources	No. of NPTI Libraries	Percentage (%)
1	Only e-Books	01	9.09
2	Only e-Journals	01	9.09
3	Only Databases	01	9.09

4	e-Books & e-Journals	06	5455
5	e-Books, e-Journals & Databases	04	36.36
6	e-Books, & Databases	02	18.18
7	Do not download	07	81.81
8	Not responded	01	9.09

Issue/Return Procedure as Per Table no. 9 Below:

S. N.	Issue /Return of CD/DVDs	No. of NPTI Libraries	Percentage (%)
1	Libraries allow Issue/Return	10	90.9
2	Libraries do not allow Issue/Return	01	9.09

Difficulties in Issue/Return Procedure as Per Table no. 10 Below:

S. N.	Difficulties in Issue/Return	No. of NPTI Libraries	Percentage (%)
1	Institute Libraries have Problems	01	9.09
2	Opinion not mentioned by	02	81.81
3	Not Responded	08	9.09

Staff Familiarity with E-Environment as Per Table no. 11 Below:

S. N.	Status	No. of NPTI Libraries	Percentage (%)
1	Comfortable	08	72.72
2	Not Comfortable	01	9.09
3	Partial Comfortable	02	18.18
	Total	11	100

Provision of ICT Training for Supportive Staff as Per Table no. 12 Below:

S. N.	Status	No. of NPTI Libraries	Percentage (%)
1	Yes	01	9.09
2	No	09	81.81
3	Not responded	01	9.09
	Total	11	100

Response of users Towards E-Resources & E-Services as Per Table no. 13 Below:

S. N.	Status	No. of NPTI Libraries	Percentage (%)
1	Average	08	72.72.
2	Good	07	63.63
3	Very Good	02	18.18
4	Poor	02	18.18
	Total	11	100

Opinion of Librarians About Users as Per Table no. 14 Below:

S. N.	Opinion of Librarians about users	No. of NPTI Libraries	Percentage (%)
1	Satisfactory	10	90.9
2	Unsatisfactory	01	9.09
	Total	11	100

Suggestions About E-Resources & E-Services for NPTI Libraries as Per Table no. 15 Below:

S. N.	Suggestions provided by Librarians	No. of NPTI Libraries	Percentage (%)
1	Suggestions provided by Librarians	10	90.9
2	Suggestions not provided by Librarians	01	9.09
	Total	11	100

7.2. COMPUTER AND INTERNET FACILITIES

All centers provide well-networked computer labs with internet access. These promote paperless operations and facilitate access to online resources and databases.

7.3. E-RESOURCES AND RESOURCE CENTERS

- NPTI has established Resource Centers aimed at:
- Organizing training content (CBTs, manuals, directories).
- Promoting information dissemination via exhibitions and workshops.
- Encouraging interaction through feedback portals.

7.4. CURRENT E-RESOURCE AVAILABILITY

- Publications: 99 training manuals
- Reports: 73 government and internal reports
- Policies: 21 power sector policy documents
- Presentations: 227 training and sectoral presentations
- CBTs: Over 66 packages across domains
- E-Presentations, Reports, Policies: Over 500 cumulative e-resources

7.5. HISTORICAL CONTEXT

From its origins in the 1960s as part of the Central Water and Power Commission, NPTI evolved through PETS (1980) to its current structure (1993), continually expanding its mandate.

7.6. IDEAL EDUCATIONAL RESOURCE CENTER COMPONENTS

To optimize library services, resource centers should include:

- Information & Reference Units
- AV and Multimedia Sections
- Curriculum Development & Research Units
- Digital Storage and Computer Labs
- Guidance, Certification, and Examination Units

8. CONCLUSION AND RECOMMENDATIONS

NPTI exemplifies how integrated training and information services can uplift a critical sector. To optimize library services:

- Government Funding: For ICT upgrades and digitization.
- Consortium Access: For better resource sharing across institutions.
- Digitization: Prioritize high-demand rare documents.
- Policy Support: Promote standardized practices across libraries.
- User Awareness: Enhance training and promotion of digital literacy among users.

Libraries in training institutions like NPTI must transition from passive resource holders to proactive, digital-first knowledge facilitators, aligned with national development goals and global best practices.