

ANNEXURE-I Brief of Projects and Extension Services

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Extension Services of NITTTR, Bhopal

(Consultancy, Projects, Community, Schemes of Govt. of India, Vetting, CDTP, PWD, NVEQF, NSDC, and others)

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
1.	Curriculum development	1971	Establishment of Curriculum Development Centre at NITTTR, Bhopal model curriculum for diploma programmes, development of reliable students' assessment system	Polytechnics of Western Region states	Survey for job analysis, Curriculum developed were implemented in 60 polytechnics, 1500 teachers trained. Model nation curriculum was prepared for diploma in civil, mechanical, electrical, Electronics engineering programmes
2.	Thrust in the Science and Humanities	1971	Development of core curriculum in the area of science and humanities for polytechnics	Polytechnics of Western Region states	The core curriculum adopted by Polytechnics of MP and Gujrat state, Instructional material developed and used for subjects Physics, chemistry, mathematics, communication skills
3.	Curriculum evaluation project	1972-75	Curriculum Evaluation for Diploma courses of polytechnics	Madhya Pradesh	Curriculum Evaluation for 3 Diploma courses in 21 polytechnics
4.	Curriculum evaluation project	1975-77	Curriculum Evaluation for Diploma courses	Gujarat	Project report submitted, Curriculum revision work took place based on the report.
5.	UNDP Project on curriculum development for technician education	1978-82	To develop- Multimedia instructional packages, educational films. Establishment of NTS. Initiate research programmes on problems of polytechnics	Polytechnics of Western Region states	The project was aided by UNDP and UNESCO was executing agency. A total of 1.5 million dollars was funded for four NITTTRs. <ul style="list-style-type: none"> • 63 numbers Multimedia instructional packages developed. • 6 educational films were produced. • 4 research projects were completed.
6.	Multipoint Entry and Credit System (MPECS)	1987-1990	Multipoint entry and flexible course offering system	Gujarat	<ul style="list-style-type: none"> • design and development of detailed curricula in 155 courses were completed between 1987 and 1990 • introduction of more than 10

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					diversified programmes <ul style="list-style-type: none"> establishment of guidance and counselling cell
7.	Evolving a Design of Competency-Based Curriculum with an emphasis on Assessment Scheme for a course Civil Egg. Diploma Programme	1997-98		DTE, Maharashtra	Curriculum Development
8.	Curriculum design and development for diversified courses	1999	Curriculum revision for diploma programmes and textbook writing	Maharashtra	<ul style="list-style-type: none"> Curriculum revision for 11 diploma programmes Thirty-eight search conferences and curriculum detailing workshops have been conducted. 109 faculty members from polytechnics participated. contributing 289-man weeks worth of effort. developed 12 documents. two textbooks were completed and handed over to MSBTE
9.	Third technician education project of the government of India assisted by the world bank	2001-2005	academic guidance to the states of Nagaland and Arunachal Pradesh.	NPIU	<ul style="list-style-type: none"> Designing of New Curricula for 6 programmes. Industry Institute and Community Interaction (IICI) and promoting Continuing Education (CE) Grant of Autonomy to Project Polytechnics Staff development for faculty and staff of the polytechnic 24 documents to NPIU, 28 Documents to north-east states.
10.	Identification of Competencies of Electrical & Electronics Engineering Degree/ Diploma Holders	2003 - 04		DCA	Competency-based Curriculum

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
	required by the Indian Industries				
11.	Review – Revision of Polytechnic Curriculum for Chhattisgarh State	2006-09		CSVТУ	Curriculum Development
12.	Review and revision of Curriculum	2008-09		CSVТУ, Chhattisgarh	Architecture and interior decoration
13.	Curriculum Development, review and revision for Diploma Programme, Review and revision of engineering degree programme	2008-10		RGPV, Bhopal	Instrumentation Engineering, Fabrication Technology, Mining & Mine Survey, Animation & Multimedia, Instrumentation (Biomedical), Mechanical Engineering, Electronics and Communication Engineering, Computer Science and Engineering
14.	Curriculum Review and Revision	2012-16		Gujarat Technological University	Diploma Programme in Computer Aided Costume Design Dress Making. Diploma in EE, ECE, ICE, PE, Bio-Medical. Civil Engineering Diploma and Allied Disciplines, Mechanical, Automobile, Metallurgy, Mechatronics, and Textile Engineering
15.	CSVТУ curriculum revision project for 15 diploma programmes in Chhattisgarh State	2016-19		CSVТУ	Computer Science & Engineering, Information Technology, Electrical, Electrical & Electronics, Electronics & Telecommunication, Instrumentation, Mechanical, Metallurgical, Civil, Mining, Chemical Engineering, Architecture, Interior Design and Decoration, Modern Office Management, Costume Design & Dress Making Technology
16.	Curriculum Redesign Project for MSBTE - "I"	2016-20		MSBTE, Maharashtra	Diploma and Allied Disciplines 17 Programmes 510 courses redesigned 03 Policy Documents Following

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	Scheme Curriculum Development				documents were prepared for the project <ul style="list-style-type: none"> •Guideline document •Questionnaire for industry experts •Questionnaire for academicians
17.	Outcome-Based Competency Focused Green Curriculum Project for GTU	2021-23		GTU, Gujarat	(27 Diploma programmes) 35 courses completed Project is in progress
18.	Distance learning (Maharashtra)	1968-69	Development of self-study material in different subjects/courses to be offered in distance learning programmes.	Maharashtra	<ul style="list-style-type: none"> • Development of self-study material in different subjects/courses. • Installation of Distance Learning System • Guidance for problem solving and extension activities • Collaboration with industries for providing correspondence courses to industry personnel
19.	Software Try-out Project (LRs)	1982	<ul style="list-style-type: none"> • Identify and validate the existing software like OHP transparencies, film strips/slides-tape sequence/multimedia learning packages/films etc. • Promote proper utilisation/try-out • Develop and Modify appropriate additional software 	Polytechnics of Western Region states	Polytechnics involved: 16 Teachers participating:100 Subjects undertook in Maharashtra: 18 Gujarat: 08 Madhya Pradesh: 16 Transparencies 1400 Slide sequences: 100 Filmstrips: 20 OHP Models: 10
20.	Distance	1992-93	Development of	Gujarat	<ul style="list-style-type: none"> • Training 1200 polytechnic

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
	education project in Gujarat state		self-study material in different subjects/courses to be offered in distance learning programmes		<p>teachers in preparing instructional material.</p> <ul style="list-style-type: none"> • Prepared Guideline document, teachers and student's guide • Developed self-learning modules, lab manuals in 400 subjects. • Training of faculty in Distance Learning Centre management • Total enrolment 67000
21.	Commonwealth youth programme, Chandigarh	1994	Textbook writing	Commonwealth	<ul style="list-style-type: none"> • 2 textbooks • 60 trained personnel in project management through 3 programmes
22.	Welding research institute, Tiruchirappalli	1994-95	Video film on welding in 12 parts	Welding Research Institute, Tiruchirappalli	<ul style="list-style-type: none"> • Development of series of 12 video programmes on welding • 8 training programmes
23.	Self-learning module for technical course	1994-99	To develop a self-learning module	National Open School, New Delhi	<ul style="list-style-type: none"> • Self-learning material for 5 courses
24.	Cement manufacturing association, Mumbai	1994-2000	<ul style="list-style-type: none"> • Training of Trainers Programme • Learning packages (computer-based multimedia package) Development Programmes. • Visioning the Future of Regional Training Centres (RTCs) • Case Bank Development 	CMA, Mumbai	<ul style="list-style-type: none"> • About 450 trained part-time trainers through 29 training of trainers programme • 9 learning packages (computer-based multimedia packages) including video film, set of the magnetic cutout, transparencies, slides in three languages were developed. 34 trained officials to use these packages. • Vision document of RTCs developed through 4 visioning workshops • Curriculum Document • Evaluation and impact study reports • Set of skills certification standards • Video programmes on Indian Cement Industries • Reports on the above programme
25.	Chief electoral	1995-96	Video	ECI	A video programme titled Matadan

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
	officer, Bhopal		programme on the electoral process for training of polling and presiding officer		Prakriya (during the first application 86876 officers were trained using this video programme)
26.	Forest department, Madhya Pradesh	1995-99	<ul style="list-style-type: none"> • To craft vision, • To promote team excellence • To develop capabilities in forest team to manage Joint Forest Management (JFM) World Bank Assisted Project. • To develop capabilities in forest officials to impart training to all those who are associated with the JFM project. • To develop publicity material • To train top officials in the use of computer 	M.P. Forest Department	<ul style="list-style-type: none"> • 460 trained officials through 23 management development programmes • 50 trained top-level officials through 2 programmes on team excellence • 185 trained top officials through 7 programmes to use computers • Vision document of forest department developed through visioning workshop • Role document • Commitment strategies • Well-designed projects at the division level • Teamwork • Three TV spots of broadcasting quality • Posters, charts, stickers, messages related to JFM • Reports
27.	National service scheme	1996	<ul style="list-style-type: none"> • To develop training for NSS officers and coordinators • To conduct Master Training Programme. • To develop a programme of action for National 	Rajiv Gandhi National Institute of Youth Development	<ul style="list-style-type: none"> • 2 workshops for the core group on national consultation • Conducted 1 Masters trainers programme • Competency-based learning package • Curriculum document • Transparency master • Trainer guide (NSS training manual) • Trainers workbook (NSS training manual) • Programme of action for National Youth Policy

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
			Youth Policy		
28.	Evaluation of Training Packages, Resources and Strategies for Indian Cement Industry for Cement Manufacturers Association	1996-97		Indian Cement Industry under WB-DANIDA HRD Project	Training Resources Evaluation
29.	Uk-REC project Competency-based teacher education(CBT E)	1996-1998	Development of Competency-Based Self Learning Modules for RECs	British council RECs	8 multimedia based self-learning modules
30.	Forest department, Maharashtra state	1997	To develop training capabilities in the faculty members of the forest training institution and top-level forest officials	Maharashtra Forest Department	<ul style="list-style-type: none"> • 39 trained forest officials through 2 Training of Trainers Programme • Competency-based learning package
31.	Bharat heavy electricals limited, New Delhi	1997	Executive Development Programme	BHEL, New Delhi	<ul style="list-style-type: none"> • Trained executives • Competency-based learning package development
32.	Forest department, Uttar Pradesh	1998	To develop training capabilities in the faculty members of the forest training institution and top-level forest officials	Himachal Pradesh Forest Department	<ul style="list-style-type: none"> • trained forest officials through one Training of Trainers Programme • Competency-based learning package
33.	Small and medium scale industries, Bhopal	1998	Skill training programme for industry on CNC machine	SMALL AND MEDIUM SCALE INDUSTRIES, BHOPAL	<ul style="list-style-type: none"> • Instructional material development, • Programme implementation • Programme evaluation

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34.	Indian railways CAMTECH, Gwalior	1998-99	Training Package on Airbrake System	Indian railways	<ul style="list-style-type: none"> • Multimedia CBT on airbrake system in Hindi and English • Multimedia package including trainers textbook, trainer's workbook, slides and transparencies • Curriculum document • Video programmes on <ul style="list-style-type: none"> - Keep the wheels rolling - Single car test and rake test - C3W Distributor Valve – Dismantling - C3W Distributor Valve – Cleaning and Assembly - C3W Distributor Valve – Testing <p>(all in Hindi, Tamil & English)</p>
35.	Crisp, Bhopal	1998-99	Production and publication of learning material for centre for research and industrial staff performance	CRISP	A module on production and publication of learning material for students of Polytechnics and Engineering Colleges and working professionals of industries
36.	Developing multimedia learning packages	1998-99	<ul style="list-style-type: none"> • To develop three multimedia learning packages. • To conduct training of trainers programme 	State Pollution Control Board, Tamil Nadu And Karnataka	<ul style="list-style-type: none"> • 3 multimedia packages (trainers guide, trainees handbook, trainee's workbook, slides, transparencies, CBT on environmental concerns in the sugar industry, environmental concerns in the tanning industry and skills profile of SPCB officials respectively. • Training plan • Curriculum document • Trained part-time trainers through three TOT programmes
37.	The L&T training centre, Pune	1998-2000	To design curriculum for low tension switchgear operation and maintenance, develop training resource material, and train the teacher		<ul style="list-style-type: none"> • Curriculum document • Textbook • 10 Teachers of Maharashtra Polytechnic trained

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
			for LT		
38.	Institutional development and organizational development	1998-99	<ul style="list-style-type: none"> To manage training programmes. To develop a need-based curriculum. To develop instructional material. To design and use various instructional strategies	State Forest Research Institute, Jabalpur	<ul style="list-style-type: none"> Conducted 4 training programmes, and trained 35 faculty members in managing training, curriculum development, instructional media and use of instructional strategies through 4 training programmes. Competency-based learning package Reports
39.	Video programme for TFRI, Jabalpur	1998-99	To produce a video programme in Hindi and English on different aspects of Bamboo in Central India	Tropical Forest Research Institute, Jabalpur	<ul style="list-style-type: none"> Programmes on: <ul style="list-style-type: none"> Promising gains sec I in Hindi and English Promising gains sec II in Hindi and English Bamboo a Gift of Nature in Hindi and English TV Spot
40.	Tata Engineering and Locomotive Co. Limited, Mumbai	1998-2000	Competency-Based Training Programme for Telco Dealers' Supervisors	TELCO	<ul style="list-style-type: none"> 150 trained supervisor trainees through 5 programmes 18 competency-based training modules 12 theme papers Workbook 37 trained participants on CNC through 3 programmes Instructional material on CNC 37 trained participants through 2 programmes on AutoCAD 2000
41.	Gyandarshan -video lecture series	2006-07		National Broadcasting	Engineering
42.	Academic Consultancy to North-East states	2006-07		TechEd III Project for North-Eastern states	Curriculum and Lab Manual Development Autonomy Established
43.	Training of experts and production of studio-based lectures for satellite-	2006-08		MP Bhoj Open University	Video lecture and laboratory-based programmes

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
	based education				
44.	Video Film Production Projects	2010-11		The Board of Apprenticeship Training (WR) Mumbai	Apprenticeship Training
45.	Project on National Vocational Education Qualification and Framework NVEQF	2011-12		MHRD	Dept. of Vocational Education & Entrepreneurship Development
46.	S. S. Bhatnagar Lecture series	2012-13		NITTR	Science, engineering and allied areas by Bharat Ratna Dr C. N. R. Rao, Dr Girijesh Govil, Dr Sourav Pal, Prof. B. R. Srinivasan and Prof. S.P. Gupta.
47.	Development of Video Film on National Children Science Congress	2014-15		MPCST, Bhopal	Science and Appropriate technology
48.	Development of regional video and audio spots in five languages	2014-15		Board of Apprenticeship Training	Apprenticeship Training
49.	Video Programme	2016-17		HEG, Mandideep	Safety in electrode manufacturing
50.	SWAYAM MOOC Project on Teacher Education	2017-20		Ministry of Human Resource Development (MHRD) Government of India	<ul style="list-style-type: none"> • Accreditation for Diploma Engineering Programmes(40hrs.) • Accreditation for Undergraduate Engineering Programmes(40hrs.) • Fundamentals of Curriculum in Engineering Education (20hrs.) • ICT in Teaching and Learning

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
					(20hrs.) <ul style="list-style-type: none"> • Learning and Instruction (20hrs.) • Accreditation for PG Engineering Programmes (20hrs.) • Basic Instructional Methods • Advanced Instructional Methods • Instructional Media • Quality Management–Tools and Techniques • Performance Appraisal and Management • Technical Education for Sustainable Development • Industry-Institute-Community Partnership
51.	NRC-2: Assessment of Practical and Social Skills in Higher Education	2019-20		SWAYAM Project of GOI	Assessment and Evaluation
52.	Video on Quality assurance in construction projects	2019-20		Atal Bihari Institute of Good Governance and Policy Analysis	Project Management
53.	Development of Content-Based video for HE	2020-22		DoHE, Govt of MP	Science, Law, Geology, Finance, English
54.	Development of Higher-Level Module MOOCs	2021-22		AICTE-NITTT SWAYAM Project of GoI	(HM 02) _ Research, Innovation & Social Relevance (HM 06) _ Intellectual Property Rights (HM 10) _ Developing Academic Management & Leadership (HM-12) _ Accreditation System & Ranking Framework
55.	Institutional evaluation project	1976-78	Evaluating the performance of polytechnics,	Madhya Pradesh	

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
			develop the norms and procedure for evaluation		
56.	Planned change	1976	Create a conducive environment for the T-L process, Effective resource utilization, Build up the corporate reputation of the institutions.	Gujarat	Total 35 change agents were trained, 18 polytechnics, 60 Principals/HODs
57.	Institutional evaluation project	1976-85	Evaluating the performance of polytechnics, plan growth and development of institutions	Gujarat	
58.	Autonomous polytechnic project	1982-84	Autonomy to selected institutes. Development of - Educational Management system, Curriculum Development, Student Assessments, Systems Development, Lab innovations, AV Aids	Maharashtra	<ul style="list-style-type: none"> • No. of polytechnics involved:5 • No. of training programmes conducted:40 • No. of teachers trained:160 • No. of follow up visits:45 • No. of documents/reports prepared:120 • Man, weeks of NITTR contribution:190 • Man, weeks of British consultancy:38
59.	Role Expectations of PPIU, SPIU and TTTI Bhopal- A Study	1992-93		NPIU	Rural Development
60.	OPTEL	1992-93		NPIU	Role of Diploma Pass outs / Supervisors working in Hi-Tech Electronic Industries (OPTEL)
61.	Generating Performance Indicators for Determining	1992-93		NPIU	Tech Ed I&II

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
	Quality of Performance of Polytechnics - A Study				
62.	Training of Trainers for Western Coal Fields Limited	1993-94	To train identified personnel from Western Coal Fields in different aspects of education technology	Western Coal Fields Limited	A large no. of officials from M/s. Western Coal Fields were trained in very absorbing programmes conducted by NITTTR Team
63.	Optel telecommunications limited, Bhopal	1994	Supervisory development programme	Optel Telecommunications Limited, Bhopal	<ul style="list-style-type: none"> • Curriculum development • Instructional material development • Implementation of programmes • Programme evaluation
64.	Bharat heavy electricals limited, Bhopal	1994-98	<ul style="list-style-type: none"> • In-company programmes for newly promoted executives • Counselling skills development programmes • Self-actualization programmes 	BHEL, Bhopal	<ul style="list-style-type: none"> • 80 trained executives through 4 programmes • 75 trained executives through 3 counselling skills programmes • Competency-based learning package
65.	Nippon DENROISPAT group, Nagpur	1995	Management Development Programme	Nippon DENROISPAT group	<ul style="list-style-type: none"> • Development of learning packages • 90 trained executives
66.	Sunflag, Bhandara	1995	Institution building	Sunflag	36 trained executives/functionaries through one programme
67.	SAARC youth charter	1995	To develop SAARC Youth Charter	SAARC	Developed SAARC Youth Charter
68.	Generating Impact Indicators for WB Assisted Project for	1995-96		NPIU	Under WB Assisted Project TechEd-I

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
	Polytechnics- A Study				
69.	Integrated institution building	1995-96	<ul style="list-style-type: none"> To design a competency-based curriculum. To enhance training skills. To write and use case studies in training situation 	Wild Life of India, Dehradun	<ul style="list-style-type: none"> Trained faculty members through Training of Trainers Programme Competency-based learning package Cases related to forest management Competency-based curriculum document
70.	Development of "IMPACT" Indicators for the WBA Project for the Project Directorate	1997-98		NPIU	Education Management
71.	Kendriya Vidyalaya Sangathan	1999	<ul style="list-style-type: none"> Training Programme for Principals 	KVS	<ul style="list-style-type: none"> 48 trained Principals through 2 training programmes Instructional modules Report
72.	KVS Management Training	2006-07		KVS	Directors, Principal and Faculty trained
73.	MPUSP (Madhya Pradesh Urban Services for Poor) Project	2008-09		BMC, Bhopal	Municipal Engineers trained on Auto CAD Design
74.	Tata Motors Certified Works Manager Project- Training programme Three months Basic Managerial Skills Development Programme	2010-12		Tata Motors Ltd	Technical (Automobile Engg.) and Managerial competencies, Managerial Training for their Trainee Managers
75.	UDAAN	2012-13		National	Tata Motors Works Managers

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
	Project			Skills Development Council	
76.	UADD Project	2012-13		Urban Administration & Development Department, Govt. of Madhya Pradesh	Civil Engineering Applications of remote sensing, GIS & GPS, Solid waste management, Management of Drainage & Sewerage System Project Planning and Management Development of Urban Infrastructure Water Supply & Quality Management, Auto CAD Development of Urban Infrastructure
77.	QMS/QT Tools Programmes for polytechnic teachers	2013-15		GOI under NMCP scheme of MSME	QMS/QT Training for polytechnic teachers
78.	Foundation & Induction Training of Jr. Engineers	2016-17		NIGAM, Madhya Pradesh	Civil Engineering
79.	ToT of Training Officers on Skill Development	2017-18		Directorate of Skill Development MP	Skill Development
80.	Competency-based teacher education project	1976	Teachers' training to bring about qualitative changes in the polytechnic teaching-learning processes	Polytechnics of Western Region states	Approx. 1800 polytechnic teachers trained
81.	Faculty Development Programme for teachers of the self-financed institute of Maharashtra state	2008-09		MSBTE and DTE	Pedagogy
82.	Orientation/Training Program for the Doctors of	2012-13		AIIMS	Education in Medical Science

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
	AIIMS-Bhopal				
83.	DGET Distance Learning Programs using ICT/AVIEW	2014-15		Projects-DGET, Ministry of Labour & Employment, New Delhi	'Automobile, Production & Manufacturing', 'Beauty and Wellness', 'Textile and Apparel', 'Construction/Plumbing', 'COPA (IT&ITES)-Visual Basic Application', 'Employability Skills', 'Electrical, Mechanic, Motor Vehicle, Electronics & COPA'
84.	Training for newly recruited engineers	2015-16		M.P. Police Housing Corporation Limited	Civil and Electrical Engineering
85.	Teaching Learning Centre (TLC) Project under Pandit Madan Mohan Malviya National Mission on Teacher and Teaching	2018-20		Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMMT), MHRD, GoI	Training of Trainers (TOT) for teacher educators Vocational Education and Entrepreneurship development
86.	Engineering experimentation course	1976-1984	Understand the Problems with conventional laboratory work and develop a new laboratory approach.	Polytechnics of the western region	14 polytechnics, 5 discipline, 20 documents, 5000 students per year, teachers trained 500, staff trained 150, the paper presents 6
87.	Engineering Experimentation Course (EEC)	1979-80	Innovations in Engineering Experimentations		<p>Details of Development and Implementation for EEC are as follows:</p> <ul style="list-style-type: none"> No. of polytechnics: 14 Disciplines: 5 (Civil, Mechanical Electrical Automobile Plastics) Number of Documents prepared: 20 Number of students: 5000 each year Number of orientation programmes: 30

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
					<ul style="list-style-type: none"> • Number of teachers trained/retrained: 500 • Number of supporting staff trained: 150 • Number of monitoring visits: 80 • Number of other short courses: 20 • National summer school and dissemination of EEC concept: 1 • Number of papers presented: 6
88.	Modernization of labs, TNA of institutes	2012-13		TEQIP II Project	Madhya Pradesh, Maharashtra, Gujarat, Goa and Chhattisgarh
89.	Equipment Vetting Project	2012 - 19		GOI	Equipment/ Labs of all diploma
90.	National testing service & item bank	1978-82		Polytechnics of Western Region states	<ul style="list-style-type: none"> • 25,500 validated items with known statistical parameters • Selection tests for admission to polytechnics • Examination papers for Diploma Courses • The consultancy was provided to State Selection Commissions in test preparation, test and item analysis, and conducting studies • improving internal assessment procedure <p>No. of subjects 50 No. of banked items 25500 No. of contributors 410</p>
91.	A comprehensive scheme of assessment (CSA) in Gujarat polytechnics	1980-84	<ul style="list-style-type: none"> • Ensure content validity, reliability and comparability in the assessment. • Improve learning by feedback to students. • Improve teaching processes by the use of 	Gujarat	<ul style="list-style-type: none"> • No. of polytechnics involved:3 • No. of training programmes:20 • No. of teachers trained:140 • No. of assessment schemes developed:69 • No. of reports/documents prepared:20 • No. of meetings with principles and administrators:23 • Man weeks of NITTTR contribution:65 • Man weeks of British consultants contribution:17 • No. of British consultants:3

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
			appropriate methods		
92.	Computerization of Examination results	1980-83	-Performance analysis of the result -Identify possible areas for computerization and institutional data processing	Technical examination board, Gujarat	
93.	Admission Test to Polytechnic of Uttar Pradesh	1991-92	<ul style="list-style-type: none"> To prepare a question paper. To process post-examination data. To prepare test results 	Joint Entrance Examination Board, Uttar Pradesh – Admission Test	<ul style="list-style-type: none"> 4000 tested candidates each year Merit lists (SC, ST, OBC wise)
94.	Development and editing of question papers in engineering and general disciplines	1992-93, 1993-94	<ul style="list-style-type: none"> To develop question papers in various subjects. 	Railway Recruitment Board, Bhopal	20 bilingual question papers containing 1620 questions of 4 option MC of different levels viz IT, Diploma, Degree etc
95.	Department of Science and Technology, Govt. of Bihar	1993-94-95	To provide training on various aspects of educational measurement and evaluation. To provide services in test development and administration. Computerization of services for processing examination results	Department of Science and Technology, Govt. of Bihar	Tested 37800 candidates for polytechnics. Developed 5 question papers
96.	Designing and developing selection tests	1993-94	<ul style="list-style-type: none"> To design an examination system. To the development of question 	Subordinate Services Selection Board, Uttar Pradesh	<ul style="list-style-type: none"> 78 question papers having about 13800 questions in general and ITI related subjects/trades

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
			papers		
97.	Developing and editing question papers	1994-95-96-97-98-99	<ul style="list-style-type: none"> To prepare valid and reliable admission tests. 	Joint Entrance Examination Board, Uttar Pradesh	<ul style="list-style-type: none"> Set of question papers in 5 basic subjects Set of question papers in 3 general subjects
98.	Needs of Polytechnics for Strengthening Computer Facilities and for Enhancing Their Utilization	1994-95		GOI, New Delhi	Computer Applications
99.	Computer training programme in Hindi for Govt. and banks	1998-99	To use computers to prepare official notes, reports and another routine documents in Hindi language using computer	Rashtriya Rajbhasha Samiti, Govt. of India	<ul style="list-style-type: none"> 40 trained officials through 2 training programmes Instructional material
100.	Rural Knowledge Network Project	2011-15		DST	Information Technology
101.	e – Tendering & USMIS / use of IT in office management	2014-15		Urban Development	Computer application
102.	Community polytechnic scheme	1978	To promote the transfer of technology to the rural community.	Polytechnics of the western region	Total no. of Polytechnics covered under the scheme in the Western Region is 669 , number of persons trained under Manpower Development and Training are 5,82,588 , transfer of technology no. of beneficiary are 1304873 , technical & support services no. of beneficiary are 675338 .
103.	Community Development through	2009			total no. of Polytechnics covered in the Western Region are 518, number of persons trained under skill development training programmes

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
	Polytechnics				are 3,45,469, dissemination & Application of Appropriate Technology no. of beneficiary are 1,26,306, technical & Support Services no. of beneficiary are 1,68,150, awareness Programms no. of beneficiary are 5,21,791
104.	Council for Advancement of People Participation and Rural Technology	1990-92	National Project Directory of Rural Technology		<ul style="list-style-type: none"> Preparation of a volume of Directory
105.	Case studies on Pioneers in Rural Development	1991-92		DST, GOI, New Delhi	Rural Development
106.	Preparation of National Directories of Rural Technologies	1993-94		DST, GOI, New Delhi(CAP ART)	Rural Development (8Directories)
107.	Rajiv Gandhi National Drinking Water Mission Project- Validation Survey of Non-covered Villages	1993-94		GOI, New Delhi	Rural Development
108.	Developing Case Studies on Six Centres of Development of Rural Technology	1993-94		NPIU	Rural Development
109.	Rajiv Gandhi national drinking water	1995-2003	<ul style="list-style-type: none"> To train grassroots level workers 	Ministry of HRD	<ul style="list-style-type: none"> Trained 9675 Masons, 1963 Health and hygiene workers 6624 Hand pump mechanics,

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
	mission (HRD)		<p>in following trades</p> <ul style="list-style-type: none"> - Mason - Health and hygiene worker - Hand pump mechanic - Motivators for community support mobilization. <ul style="list-style-type: none"> • To create a cadre of resource persons from the local socio-cultural environment. • To orient and sensitize decision-makers, administrators and planners for the region. • To develop special skills among trainers for organizing district and developmental block level training leading to required skill development among Grass-Root Level Workers (GRLW). • To develop literature on sustainability of RWS & S in 		<p>2638 motivators for community support mobilization</p> <ul style="list-style-type: none"> • 5 regional workshops • 3031 trained Surpanch (PRIs) through sarpanch sammelan • Trained sector professional through 4 training programmes • Video programme on maintenance of hand pump • IEC strategy • MIS • Multimedia packages

S.No.	Name of the Project	Period	Type of Work	Client	Remarks
			North Eastern Region.		
110.	Development of 'Multifunctional Railway Track Scavenging Vehicle'	2016-19		DST	Mechanical Engineering
111.	Finite Element Analysis of Aluminium Tank of CLW	2019-20		Electro Auto Govindpura, Bhopal	Mechanical Engineering

Table-II

S.No	Title of the Project	Period/Year	Client	Area/Branch
112.	Test Data Analysis and Preparation of Examination Results (Selection Test for Admission in the Polytechnics)	1991- 92	Joint Entrance Examination Council, Lucknow	Students Assessment
113.	Case studies on Pioneers in Rural Development	1991-92	DST, GOI, New Delhi	Rural Development
114.	Role of Diploma Pass outs / Supervisors working in Hi-Tech Electronic Industries (OPTTEL)	1992-93	NPIU	Rural Development
115.	Role Expectations of PPIU, SPIU and TTI Bhopal- A Study	1992-93	NPIU	Rural Development
116.	Rajiv Gandhi National Drinking Water Mission Project- Validation Survey of Non-covered Villages	1993-94	GOI, New Delhi	Rural Development
117.	Faculty Development Programme for teachers of the self-financed institute of Maharashtra state	2008-09	MSBTE and BTE	Pedagogy

S.No	Title of the Project	Period/Year	Client	Area/Branch
118.	Maharashtra State Board of Technical Education (MSBTE) Curriculum Redesign Project	2016-19	MSBTE, Maharashtra	DiplomaandAlliedDisciplines17Programmes