

**LIST OF PLAN PROJECTS UNDER ELEVENTH PLAN OF CSIR**

Sr. No.	Code	Name of the Project (Nodal Laboratory)	2007-12
			<b>Total/Sanctd. Cost (Rs. Cr.)</b>
		<b>A. Supra Institutional Projects</b>	
1	SIP01	Enhancement of knowledge base in aerospace sciences and development of cutting edge technologies (NAL)	99.67
2	SIP02	Niche food processing technologies for outreach of cost effective, safe, hygienic, nutritious and health food to the target population (CFTRI)	38.00
3	SIP03	High value products from agro forestry resources from the Himalayan region & improving productivity and quality of product development including facility for nutraceutical/value added product (IHBT)	19.28
4	SIP04	Evidence based Nutraceutical/ Herbal products for Preventive Health and Disease Management (NIIST)	8.20
5	SIP05	Biodiversity assessment, prospection and conservation of plant resources of India (NBRI)	17.30
6	SIP06	An Integrative Biology Approach in Deciphering Genotype - Phenotype Correlation for Human Complex Disorders (IGIB)	14.50
7	SIP07	Evaluation and Correction of Mitochondrial Dysfunction in Disease (IICB)	16.50
8	SIP08	Investigative Toxicology: New Paradigms (IITR)	12.00
9	SIP09	Enhancing water utilization efficiency in crop plants: Prospecting Plant Diversity for genes and systems Biology for drought tolerance (NBRI)	10.00
10	SIP10	Understanding the molecular mechanism of diseases of national priority: Developing novel approaches for effective management (IMT)	19.20
11	SIP11	Facility for chemical biology (IICT)	26.70
12	SIP12	Evolution of the Indian Lithosphere : Focus on Major Earth Processes and Resources with a special reference to Deccan Traps and Dharwar craton (NGRI)	40.00
13	SIP13	Science for development of a forecasting system for the waters around india (NIO)	72.45
14	SIP14	Multi-scale simulation and quantification of sustainability and vulnerability under climate variability and climate stress and other natural hazards (CMMACS)	5.50
15	SIP15	Seismic hazard-risk evaluation and Earthquake Precursor related studies (NEIST)	5.50
16	SIP16	Capacity building in Molecular Environmental Science (NEERI)	20.00
17	SIP17	R&D on Photovoltaics and Other Energy Applications (NPL)	15.00
18	SIP18	Energy for cleaner and greener environment (CECRI)	14.40
19	SIP19	To develop know-how and technology for environmental friendly conversion and utilization of biomass to fuels, lubricants and additives (IIP)	35.00
20	SIP20	Competencies in clean coal initiative & energy conservation technologies leading to development of IGCC and UGCG in India (IIP)	60.00
21	SIP21	Technology development for Smart Systems (CEERI)	12.00
22	SIP22	Appropriate technological Solutions for Societal applications (CSIO)	18.00
23	SIP23	Ceramic materials for emerging technologies involving liquid and gas separation (CGCRI)	18.00
24	SIP24	Capability in mobile robot development for industrial, outdoor and hazardous applications (CMERI)	20.00
25	SIP25	Development and forming of performance driven special steels (NML)	20.00
26	SIP26	New drug development programme for parasitic diseases (CDRI)	30.00
27	SIP27	Development of Novel Target based Anticancer Therapeutics (IIM)	18.00
28	SIP28	Management tools for maintenance, scheduling and life enhancement of special structures (SERC)	16.00
29	SIP29	High Performance Materials and Construction Technologies for Sustainable Built Space (CBRI)	16.00
30	SIP30	Development of a Management System for Maintenance Planning and Budgeting of High Speed Road Corridors (CRR)	16.00
31	SIP31	Indian S&T - Mapping, Manpower and Comparative Capability (NISTADS)	5.60
32	SIP32	Patinformatics (URDIP)	5.60
33	SIP 33	Agrochemicals and Intermediates : Integrated pest management include pheromones (IICT)	9.90

<b>B. Network projects</b>			
1	NWP01	Designing and developing a regional aircraft specially suited for developing economies (Phase-1) NAL	300.00
2	NWP02	Design and development of equipment with appropriate and adaptable automation for hygienic and safe production of processed and semi-processed foods in large scale(CFTRI)	23.00
3	NWP03	Transgenic crop plants and genes for resistance to insect pests(NBRI)	11.35
4	NWP04	Plasma Proteomics Health, Environment and Disease (CCMB)	33.61
5	NWP05	Engineering Peptides and Proteins for New Generation Therapies (CCMB)	22.00
6	NWP06	Exploitation of India's rich microbial diversity (IMT)	40.00
7	NWP08	Pathway engineering and system biology approach towards homologous and heterologous expression of high-value phytochemicals (artemisinin, taxanes, picrosides, morphine, with anolides(CIMAP)	28.49
8	NWP09	Biological & Chemical Transformation of Plant Compounds for Production of Value Added Products of Therapeutic/Aroma Value (CIMAP).	20.00
9	NWP10	Development of Specialty Inorganic Materials for Diverse Applications (CSMCRI)	20.00
10	NWP12	Conducting polymer paints and coatings for corrosion protection and shielding of concrete structures in strategic areas (NCL)	6.00
11	NWP13	NCL-IGIB joint Research Initiative: Interfacing Chemistry with biology (IGIB)	21.50
12	NWP14	Atmosphere carbon dioxide sequestration through fertilization of a high-nutrients-low chlorophyll (HNLC) oceanic regions with iron (NIO)	15.00
13	NWP15	State of art multi tera flop High Performance Computing Facility( HPC), CMMACS	49.41
14	NWP17	Environmental Contaminants: New Screening Technologies and Effect on Human Health (IITR)	20.00
15	NWP18	Mapping of the Marine Biodiversity along the Indian Coast (CSMCRI)	9.00
16	NWP19	Remediation/eco-restoration and Cleanup of Contaminated Ground & Water Resources (NEERI)	19.00
17	NWP20	Climate change and adaption of species complexes (IHBT)	23.00
18	NWP21	Development of gas to liquid (GTL) Processes for DME & Fischer-Tropsch fuels (IIP)	20.00
19	NWP22	Hydrogen economy initiative: Overcoming materials challenges for the generation, storage and conversion of hydrogen using fuel cells (NCL).	35.00
20	NWP23	Functional Organic Materials for Energy Efficient Devices (NIIST)	6.00
21	NWP24	Design and Fabrication Capabilities for Very High Frequency Microwave Tubes (CEERI)	45.00
22	NWP25	Fabrication of LED Devices and Systems for Solid State Lighting Applications (NPL)	47.87
23	NWP26	Photonics for Communication, Laser and Sensor Technology (CGCRI)	20.00
24	NWP27	Technology for Assessment and Refurbishment of Engineering Materials and Components(NML)	30.00
25	NWP28	Development of Advanced Lightweight Metallic Materials for Engineering Applications (AMPRI)	45.00
26	NWP29	Non oxide ceramic based advance structural materials: Armours and Refractories (CGCRI)	15.00
27	NWP30	Modular Re-configurable Micro Manufacturing Systems (MRMMS) for Multi Material Desktop Manufacturing Capabilities (CMERI)	19.00
28	NWP31	Development of Advanced Eco-Friendly, Energy Efficient Processes for Utilization of Iron ore Resources of India (IMMT)	20.00
29	NWP32	Diabetes Mellitus -New Drug discovery R&D, Molecular mechanisms and genetic factors (CDRI)	33.78
30	NWP33	Development of Diagnostics and Target Based Molecular Medicines against Allergy Bronchial Asthma and Chronic Obstructive Pulmonary Disease (IICB)	19.80
31	NWP34	Validation of Identified Screening Models and Development of New Alternative Models for Evaluation of New Drug Entities (CDRI)	18.50
32	NWP35	Nanomaterial and Nanodevices in Health and Disease (CCMB)	40.00
33	NWP36	Comparative Genomics and Biology of non-coding RNA in the human genome (IGIB)	38.00
34	NWP37	Discovery and preclinical studies of new bioactive molecules ( natural and semi-synthetic) & traditional preparations (CSIR Hq.)	11.71
35	NWP38	Identification and Validation of Drug Targets for Selected Pathogens (CDRI)	16.50
36	NWP39	Engineering of structure against natural & other disasters (SERC)	15.00
37	NWP40	Comprehensive Traditional Knowledge Digital Library (NISCAIR)	18.00

38	NWP41	Scientific Knowledge Grid, High Power Computing, Data Centres (ITD)	60.00
39	NWP42	Consortium access to electronic journals (NISCAIR)	40.00
40	NWP43	Cheminformatics (URDIP)	15.26
41	NWP44	Zero Emission Research Initiative (CLRI)	15.00
42	NWP45	Advancement in Metrology (NPL)	121.45
43	NWP46	Sustainable Development and Management of water resources in different problematic terrain(NGRI)	10.00
44	NWP47	Development of hollow fiber membrane technology for water disinfection/purification and waste water reclamation (CSMCRI)	12.00
45	NWP48	Rural, SC/ST, Women, North East & Tribals (RSWNET)	52.47
<b>C. Inter-agency projects</b>			
1	IAP01	New insights in cancer biology: Identification of novel targets and development of target based molecular medicine (IICB)	14.30
2	IAP02	Project on Conservation of Endangered Species (CCMB)	16.90
3	IAP03	Development of coal to liquid technology (CTL) technology for synthesis of liquid hydrocarbons(CIMFR)	10.00
4	IAP04	Development of Lithium-ion batteries for Multifarious applications (CECRI)	9.00
5	IAP05	Utilization of indigenous know-how to address drinking water need in coastal/rural areas (CSMCRI -BARC)	60.00
6	IAP06	Development of cost effective mine water reclamation technology for providing safe drinking water (CIMFR)	14.00
7	IAP07	Design Centre for Products (CLRI)	11.00
8	IAP09	Soleckshaw-Battery operated cycle rikshaw (CMERI)	4.00
<b>D. Facility Creation</b>			
1	FAC01	Enhancement of Aerospace Research & Technology Development Facilities including Setting up a Centre of Excellence in Flight Mechanics and control (NAL).	45.00
2	FAC02	National Facilities for Functional Genomic Research .a) Zebrafish Facility b) Cellomics Facility c) LC-NMR facility.(IGIB)	23.20
3	FAC03	Advanced Center for Protein Informatics, Science, Engineering & Technology (IMT)	40.00
4	FAC04	Settingup a Compact High Energy Light Source Radiation for the Structural Analysis of Biomacromolecule (CCMB)	12.00
5	FAC05	Center of Excellence for Lipid Research (IICT)	17.00
6	FAC06	CSIR Battery Performance Evaluation Centre (CECRI)	5.00
7	FAC07	BSL-4 Facility for infectious diseases caused by dangerous microorganisms (In collaboration with DST amount shown is CSIR part)	32.32
8	FAC08	Establishment of Dog Facility for research and testing purposes (CDRI)	10.09
9	FAC09	State-of-the-art analytical facility for North East (NEIST)	4.80
10	FAC11	Innovation centre for plasma processing (IMT)	19.80
<b>E. Headquarter Project</b>			
	HCP01	Open Source Drug Discovery (OSDD) (CSIR Hq.)	45.98

\* **Shaded projects in formulation stage**