

APPENDICES

SPONSORED/SUPPORTED PROJECTS

TITLE	AGENCY	AMOUNT RECEIVED Rs. (Lakhs)
NEW		
Design & fabrication of plasma CVD system, for deposition of a-Si films on large area.	DNES	15.500
Development of process for fabrication of 15% efficiency single crystal and multicrystal solar cells	DNES	10.000
Development of graphite reinforced carbon bipolar plates for fuel cells.	DNES	5.250
Preparation and characterization of halogen intercalated carbons.	DST (Indo-French)	6.860
Development of high strain to failure and high modulus carbon fibres.	ARDB	11.620
Investigation of surface stabilised ferro-electric liquid crystal devices.	DST	2.000
Design and fabrication of plasma CVD system for deposition of diamond like carbon films on Ge.	IRDE	19.500
Indigenous development of distrometer for study of tropospheric propagation parameters over selected sites in India	DOE	7.750
Development of ionospheric models for high reliability HF systems.	DRDO	1.400
Development of software packages on rain effects in the microwave & mm wave bands in selected regions over India	DRDO	4.500
Monitoring of monsoon circulation	DST (Indo-USSR)	0.850
National methane campaign for actual methane measurements during the year 1991.	Env. & Forests.	1.000
Preparation of solar UV-B contour maps	Env. & Forests	1.500
Development of warm forging & hot extrusion processes for metal matrix composites.	ARDB	3.500
CONTINUING		
Augmentation of primary electronic standards.	DOE	18.398

Photolithographic mask aligner using modified moire technique	DOE	-
Calibration service programme under National Coordination of Testing & Calibration Facilities	DST	17.000
Study of the tropical boundary layer meteorology at Jodhpur using monostatic acoustic sounder and instrumented tower	DST	-
Metrological studies on standards on measurements	DST (Indo-US)	-
Interaction of small gas molecules with semiconductor metal interfaces as studied by surface analytical techniques.	DST (Indo-US)	-
Establishment of transfer leak standards in vacuum metrology.	DST (Indo-US)	-
R & D in laser frequency standards	DST (Indo-USSR)	-
Development of technology of indigenous manufacture of retro-reflective sheeting/tape.	Sur.Transp.	-
Development of laser resistant carbon fibre composites	ARDB	-
Study of electrical conductivity of mantle forming rock minerals under high temperature environment	DST	-
Technical feasibility and concept proving in the area of biomolecular electronic devices.	DST	5.810
Synthesis, characterization & application of some conducting polymers.	DST (Indo-EEC)	6.868
Volatile metal organic compounds	DST (Indo-USSR)	-
Development of high X-ray sensitive photo receptors for dose reduction in xero -radiography.	DOE	2.860
DOE-NPL Centre for characterization of materials for electronics	DOE	-
Growth of nearly perfect crystals of oxides like lithiumniobate.	DST (Indo-USSR)	0.850
Data base on electronic materials.	DST Indo-USSR)	-
National superconductivity fellows (National superconductivity programme)	DST	1.332
Superconducting magnetic separator	DST	-
Preparation, characterization and precision measurements of semiconducting materials.	DST (Indo-USSR)	-
Study on high temperature superconductivity	DST (Indo-USR)	-
Development of Stirling engines for power production	DNES	-

Synthesis of high Tc superconductive materials through eutectic melt.	DST	0.200
Laser heterodyne system for the study of ozone and other minor constituent in Antarctica.	DOD	13.000
A ground based millimeter wave technique for ozone observations at Antarctica	DOD	-
To monitor solar infrared radiation for studying minor constituents in atmosphere.	DST	0.800
Development & decay of scintillation producing irregularities and gravity wave propagation in low latitudes.	DST	-
Very long baseline interferometry.	NGRI	-
COMPLETED		
Development & characterization of acoustic transducers & materials for application in ocean engineering.	DOD	-
Improving the quality and reliability of standard Time & Frequency signals (STFS) to Echelon-II laboratories.	DOE	-
Hot extrusion & cold forging.	British Council	-
Multicrystalline silicon ingot technology	CEL	-
Development of sodium-sulphur batteries for electric vehicle	DNES	9.000
Hydrogenated amorphous silicon film (Phase-II) (Completed last year)	DNES	1.000
Bench scale experimental studies on impregnating pitch	DST	-
Development and supply of pressure vessels and storage tanks.	DRDL	-
Low dimensional coulomb system	DST	-
Studies of polycrystalline bulk, thin films and crystals of high temperature superconductor	DST (Indo-EEC)	-
Ionospheric modelling for radio communication including effects of the artificial modification of ionosphere.	DST (Indo-USSR)	-
Acoustic sounding system at Antarctica	DOD	-