

Central Glass and Ceramic Research Institute

Ongoing Projects					
FIELD	Title of the Projects	Project Leader	Divn./Section	Name of Sponsor/ Collaborating Agency	Contract Value (Rs in lacs)
Technical Ceramics	Development of selected medical implants.	D Basu (Dr.)	Bioceramics & Coating	NMITLI/CSIR	147.9000
Technical Ceramics	Development of self assembled mesoporous aluminum phosphate through bio molecular templating	D Basu (Dr.)/ Jui Chakraborty (Dr.)	Bioceramics & Coating	DST, New Delhi	2.54 NML 1.54 CGCRI 1.0
Technical Ceramics	Development of bio active bio glass composition with varied amount of calcium phosphate crystals to be used as coatings on Titanium and steel implants	Someshwar Datta (Dr.)	Bioceramics & Coating	DST, New Delhi	14.3750
Technical Ceramics	Development of glass ceramic coatings for high temperature protection of Titanium Aluminide alloys	Someshwar Dutta(Dr.)	Bioceramics & Coating	ARDB (Aeronautical Research & Development Board)	9.9975
Technical Ceramics	Micromechanical characterization of hydroxyapatite coated metallic implants	D Basu (Dr.)	Bioceramics & Coatings	DST	19.9100
Electronic Ceramic	Preparation of nanoporous ceramic membranes over clay alumina support for water treatment	S Bandopadhyay (Dr.)	Ceramic Membrane	IFCPAR (Indo-French Centre for Promotion of Advanced Research), New Delhi	35.5400
Electronic Ceramic	Development of technology system for river water purification using MF/RO membrane for drinking water supply to Ghuni and Chakpatli, Hasnabad Block, West Bengal	S Bandopadhyay (Dr.)	Ceramic Membrane	DST, New Delhi(Project with CSMCRI, Bhavnagar)	69.0600
Advanced Clay Technology	Orientation programme for representatives of TEPP outreach centres (TEPP)	S Ghatak (Dr.)	Clay & Traditional Ceramics	TIFAC (DST) (Technology Information, Forecasting	6.0000
Advanced Clay Technology	Synthesis and characterization of organophillic nano clays	S Ghatak (Dr.)	Clay & Traditional Ceramics	ISRO (Indian Space Research Orgn.)	8.8200

Rural Development	Educational Programme titled "Two year diploma course on Designing in ceramics and glazed pottery"	H S Maiti(Dr.)	Clay & Traditional Ceramics	College of arts and Design, Burdwan	
Rural Development	Development of singular clay from various sources of West Bengal by blending process	S K Das (Dr.)	Clay & Traditional Ceramics	DST, Govt. of West Bengal	4.6300
Electronic Ceramic	Investigation on Ceria and Lanthanum Gallate based solid electrolyte materials for low temperature Solid Oxide Fuel Cells	R N Basu (Dr.)	Fuel Cell & Battery	BRNS (Board of Research in Nuclear Sciences)	8.0900
Electronic Ceramic	Investigation on silicon based new anode materials for lithium - ion rechargeable batteries	R N Basu (Dr.)	Fuel Cell & Battery	RCI (Research Centre Imarat), Hyderabad	38.4500
Electronic Ceramic	Studies on the actuation behaviour of lead free piezoceramics	A Sen (Dr.)/ Sudipta Goswami	Actuators & Sensors	DST, New Delhi	17.28
Composites	Investigation of natural convection heat transfer in molten pool during melting phenomena	Dipayan Sanyal(Dr.)	Glass	DAE/BRNS (Board of Research in Nuclear Sciences)	14.5400
Optical Materials	Development of photo-active glass-fullerene hetero structures and studies on the viability of their use in designing photodiodes and photo-voltaic cells	R Debnath (Dr.)	Glass	DST, New Delhi	20.7800
Khurja Centre	Training of glass beads making on gas fired burner (specially for women of self help groups)	L K Sharma(Dr.)	Khurja Centre	U P Bhumi Sudhar Nigam	0.6400
Khurja Centre	Ambient air quality monitoring at Khurja	L K Sharma(Dr.)	Khurja Centre	U P Pollution Control Board	2.8100
Khurja Centre	Procurement of LPG for development of fast firing technology	L K Sharma(Dr.)	Khurja Centre	UNIDO	1.9165
Khurja Centre	Flue gas analysis in various types of kilns in Khurja to improve combustion of fuel and reduction in GHG emission	L K Sharma(Dr.)	Khurja Centre	PCRA (Petroleum Conservation Research Agency)	2.3500
Khurja Centre	Visit of pottery/insulator entrepreneurs of Khurja to the Developed Clusters in Gujarat	L K Sharma(Dr.)	Khurja Centre	PCRA (Petroleum Conservation Research Agency)	1.1800

Khurja Centre	Reducing kiln car mass through modification to improve fuel efficiency	L K Sharma(Dr.)	Khurja Centre	PCRA, New Delhi	40.15
Khurja Centre	Improvement in design of tunnel kilns for better efficiency in white ware pottery industries at Khurja	L K Sharma(Dr.)	Khurja Centre	PCRA, New Delhi	31.22
Khurja Centre	National Programme to support energy efficiency and quality standards in Ceramic SME's in India	L K Sharma(Dr.)	Khurja Centre	UNIDO	1.9165
Naroda Centre	Development of glazed floor tiles utilizing low energy intensive technology for body and glaze production	K N Maiti (Dr.) / S. N. Misra (Dr.)	Naroda Centre	Commisionerate of Industries, Govt. of Gujarat	16.0000
Analytical Chemistry	Enviromental Management Plan for the Protection of Victoria Memorial, Kolkata	Anoop Mukherjee (Dr.)	Non-Oxide Ceramics & Composites	Collaborative NEERI	5.0000
Technical Ceramics	Boron Nitride coated carbon fibre/carbon matrix composites	Asis Kumar Basu	Non-Oxide Ceramics & Composites	DRDO(Advanced Systems Laboratory, Hyderabad)	15.0000
Technical Ceramics	Establishment of the optimum fabrication procedure of reaction bonded silicon nitride cylindrical tubes having controlled porosity	Probal Kumar Das (Dr.)	Non-Oxide Ceramics & Composites	BRNS (Board of Research in Nuclear Sciences)	45.6400
Technical Ceramics	Supply of AlN tiles of size 50mmX50mmX8mm (40 nos)	S Biswas (Dr.)	Non-Oxide Ceramics & Composites	Ministry of Defence, Medak	1.6500
Technical Ceramics	Development of Sintered Silicon Carbide shapes	S. Ghatak (Dr.)	Non-Oxide Ceramics & Composites	Carborundum Universal	5.0000
Technical Ceramics	Development of ceramic based implantable delivery system for sustained release of the drugs for the treatment of osteomyelitis in human patients	Biswanath Kundu	Bioceramics and Coating	DST, New Delhi	12.5088
Technical Ceramics	Soft lithographic route for making large area ceramic nano particle array for possible application in bionic eye	Rabibrata Mukherjee	AFD	DST-SERC	11.1

Technical Ceramics	Development , siliconization and supply of Jet Vanes	Probal Kumar Das (Dr.)	NOCS	DRDL	6.46
Electronic Ceramic	Development of hard & tough silicon nitride ceramic matrix composite matrix	Siddartha Bandopadhyay (Dr.)	Non-Oxide Ceramics & Composites	ARDB (Aeronautical Research & Development Board)	18.7040
Optical Materials	Development of fibre bragg grating based strain sensor	K Dasgupta	Optical Communication Fibre	IGCAR (Indra Gandhi Centre for Atomic Research), Kalpakkam	35.0000
Optical Materials	Development of narrow line width tunable fibre laser	K Dasgupta	Optical Communication Fibre	DRDO (Defense R&D Orgn.)	38.0000
Optical Materials	To carry out research work in the area of "Fibre Optics" (Advanced doped optical fibre) [Boyscast fellowship]	Mukul Ch. Paul (Dr.)	Optical Communication Fibre	DST	6.4800
Optical Materials	R & D on specialty fibres and fibre based components for optical communications	Shyamal Bhadra (Dr.)	Optical Communication Fibre	DST (International Division)	26.4000 (CGCRI's sanction 1.4000)
Optical Materials	Development of fibre bragg gratings for use as strain sensors in composite structures	Shyamal Bhadra (Dr.)	Optical Communication Fibre	R & D Engineers, Dighi, Pune	17.5000
Optical Materials	Experimental study and fabrication of index graded photonic crystal fibre	Shyamal Bhadra (Dr.)	Optical Communication Fibre	SERC, DST	40.19
Optical Materials	Development of Index Guided Photonic Crystal Fibre for Special Application	Shyamal Bhadra (Dr.)	Optical Communication Fibre	Dept. of Information Technology, GOI	52.5000
Optical Materials	Fabrication of rare Earth doped fibres needed for fibre lasers	Ranjan Sen (Dr.)	OCF	Dept. of Information Technology, GOI	29.35 (DIT 19.15 lacs , CGCRI 10.2 lacs)
Refractories	Value added refractory aggregates from Indian bauxite	H. S. Maiti (Dr.)	Refractory	Ministry of Steel, GOI	31.0000
Electronic Ceramic	Development of semiconductor sensors for detection of alcohol and acetone in human breath	Indrani Ray	Sensor & Actuator	Ministry of Science & Technology, GOI	18.9500

Sol gel	Optical coatings on glass	G De (Dr.)	Sol gel	Tata Chemicals	13.5000
Sol gel	Metal Metal Oxide nano particles and rare earth ions doped nano composites glassy films for application in Optical device and sensors (Indo-Italian Research)	G De (Dr.)	Sol gel	DST, New Delhi	4.5800
Sol-Gel	Gold-nanotriangle incorporated coatings for solar glass application	G De (Dr.)	Sol gel	Tata Chemicals	13.5
Sol-Gel	Study of magneto optical properties of sol gel based transition metal ion doped nanostructured Iridium Tin Oxide (ITO) films on glass	P K Biswas (Dr.)	Sol gel	DST (International Division) Collaborator Nagoya Institute of Technology, Nagoya, Japan	2.92