

MAJOR GRANT-IN-AID PROJECTS FUNDED BY GOVERNMENT

Name of the Ministry/Department	Project Cost (Rs. In Lakhs)	Project Title	Start Date	Completion Date
Department of Biotechnology	61.11000	Fabrication of structured nanomaterials webs and writings through biobimitism with emphasis on self-mineral	2008-04-01	2011-04-01
Department of Atomic Energy	31.68000	Development of techniques for evaluating mechanical properties and fracture toughness parameters	1999-01-01	2001-12-31
Department of Atomic Energy	13.70650	Effect of welding heat inputs on low temperature sensitization and thermal ageing on embrittlement of austenitic steel	2012-01-01	2013-12-31
Department of Atomic Energy	33.22000	Evaluation of mechanical properties of structural materials using miniature test technique	2012-01-01	2014-12-31
Department of Biotechnology	8.32000	In situ biomimetic synthesis of protein based nanosized hydroxyaptite - protein - polymer composites	2003-06-26	2006-06-25
Department of Science & Technology	6.19000	Magnetic Evaluation of Fatigue Damage and Deformation (INDO-US Collaboration Project)	2002-07-03	2005-06-02
Department of Science & Technology	9.60000	Recovery of Important Strategic Metals from Spent Catalyst	2002-09-01	2005-08-31
Department of Science & Technology	413.00000	Non-Destructive Evaluation (NDE) Facility for Infrastructure Asset Management	2003-04-01	2006-03-31
Department of Science & Technology	8.84800	Tailoring of geopolymers properties by mechanical activation of fly ash	2012-11-01	2014-10-30

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Department of Science & Technology	20.18000	Effect of pileup-sink-in on mechanical properties characterization of bulk and UFG/nano material using indentation simulation and its experimental validation	2011-01-12	2014-01-11
Department of Science & Technology	33.65000	Development of an ICP-OES technique for gold hallmarking of an alternative to fire assay technique	1999-06-15	2000-03-14
Department of Science & Technology	14.91000	Synthesis and sintering of titanium diboride for industrial application	2000-04-01	2004-04-30
Department of Science & Technology	10.50000	Modelling of crack tip blunting using finite element method	2002-07-23	2005-07-22
Department of Science & Technology	2.64500	Development of eco-friendly closed multi pot furnace for glass melting	1999-08-01	2000-03-31
Dept. of Atomic Energy	10.33800	Cyclic integral evaluation of various nuclear grade carbon manganese steels	1998-04-01	2000-03-31
Dept. of Biotechnology	16.14000	Optimization of polymer hydrogel based three dimensional hybrid biomimetic scaffold	2006-04-01	2009-09-09
Dept. of Mines	24.00000	Treatment of Copper bleed solution for extraction of metal and acid by solvent extraction	2000-08-01	2003-07-31
Dept. of Ocean Development	15.00000	Improvement of Cobalt extraction from roast reduced Polymetallic sea nodules in ammoniacal solution	2003-04-01	2008-03-31
Dept. of Ocean Development	131.98000	Separation and recovery of Cu, Ni, Co from leach liquor of sea nodules by bulk sulphide prep.-SX-EW route	2003-04-01	2006-03-31

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Dept. of Ocean Development	206.08000	Recovery of Mn from leach sea noodles residue and toxicological studies of the waste	2003-04-01	2006-03-31
Dept. of Ocean Development	18.24000	Studies on adsorption behaviour and catalytic activity of Mn noodles leach residue	2003-04-01	2006-03-31
Department of Science & Technology	23.42100	Micromagnetic study on ferromagnetic materials	1999-06-01	2002-05-31
Department of Science & Technology	15.64810	Improving longevity of tube wells in rural areas of Jharkhand	2007-09-28	2010-09-27
Department of Science & Technology	16.45823	Recycling of electronic waste	2007-12-28	2010-12-31
Department of Science & Technology	22.39900	Friction stir welding of dissimilar Al alloys and 304 stainless steel to Al alloys for aerospace and automobile application.	2007-12-01	2011-03-31
Department of Science & Technology	6.00000	Investigations on the thermo-chemistry of the interaction of chromite spinels and silica under different conditions	2007-08-01	2010-07-31
Department of Science & Technology	7.05006	Providing safe drinking water in rural areas using Solar Disinfection Technique	2008-07-28	2010-07-27
Department of Science & Technology	1.87588	Evaluation of microstructural changes in steel used in petrochemical industry by NDE technique	2008-07-17	2011-07-16
Department of Science & Technology	5.87000	Development of plough share and other agriculture tool, with improved properties	1996-02-01	1997-07-31

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Department of Science & Technology	8.40000	Science & technology inputs to practicing blacksmiths of rural sectors	1996-06-01	1999-11-30
Department of Science & Technology	12.39400	Environmental effects on electro chemical characterisation of nano crystalline ferromagnetic alloys	1997-07-30	2000-06-30
Department of Science & Technology	9.19834	Thermochemical Modelling & Simulation studies for energy optimization & quality control in Ferro alloys prod	1999-04-11	2002-04-10
Department of Science & Technology	6.23000	Non-edible veg. oil in mould\core making and preparation of resins	1999-08-01	2002-03-31
Department of Science & Technology	11.24902	Development of low silver brazing alloys for joining ceramic to metal	2000-02-01	2003-01-31
Department of Science & Technology	7.35402	Dephosphorization of high carbon liquid ferromanganese	2000-03-01	2002-12-31
Department of Science & Technology	18.83920	Reduction of Hydrogen entry and consequent Hydrogen embrittlement in Steel substrate by Ion Implantation	2001-01-01	2003-10-31
Department of Science & Technology	2.58000	Aerosol Synthesis of Nano-Crystalline Zirconia Toughened Alumina Powders	2001-07-09	2003-07-08
Department of Science & Technology	11.23000	Development of ultra-low carbon bainitic steels for off-shore & on-shore structures	2001-11-01	2004-10-31
Department of Science & Technology	4.80000	Studies in development of floatation reagents for processing of complex	2002-01-07	2004-12-31

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Department of Science & Technology	14.90400	Development and tailoring of properties of Al based amorphous alloys through evolution of nanophases	2003-02-01	2006-02-01
Department of Science & Technology	7.44000	Hydrogen effects on Fe-based soft magnetic bulk amorphous alloys	2003-10-01	2007-03-31
Department of Science & Technology	10.38000	Biomimetic Synthesis of super paramagnetic particles for diagnostic applications	2003-10-29	2006-10-28
Department of Science & Technology	9.96000	Nano-Crystallisation studies on Cobalt containing bulk metallic glass	2003-10-14	2008-05-31
Department of Science & Technology	11.10000	Development of self-assembled mesoporous aluminium phosphate through biomolecular templating	2003-10-14	2006-10-14
Department of Science & Technology	8.28000	Synthesis and investigation of piezo-composites for underwater transducer application	2001-08-07	0000-00-00
Department of Science & Technology	18.26600	Development of nonmetal doped visible light sensitive magnetic photocatalyst for water decontamination.	2008-11-10	2011-11-09
Department of Science & Technology	16.50360	Development of scientific basis of technologies for recovery of non-ferrous and rare metals from technogenous by using binary reagents.	2009-02-01	2011-01-31
Department of Science & Technology	7.79400	Stability of Structure and magnetic properties of nanostructured alloys produced by rapid solidification technique.	2009-09-09	2011-09-08
Department of Science & Technology	11.57488	Effect of repetitive strain and anneal on Microstructure and mechanical properties of metastable austenitic stainless steel.	2009-10-01	2012-09-30

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Department of Science & Technology	16.67200	Thermodynamics of the Inverse melting Phenomenon in Binary Alloys: Experimental Studies and <i>ab initio</i> simulation	2009-09-09	2012-12-31
Department of Science & Technology	28.90400	Solvent extraction for value added products from wastes	2010-02-01	2013-01-31
Department of Science & Technology	18.87200	Study on Giant Magneto-Impedance behaviour in Co and Fe based nano-structured materials.	2010-03-01	2013-02-28
Department of Science & Technology	9.06000	Synthesis of novel polynuclear heterocyclic compounds and their study as potential corrosion inhibitors	2005-08-24	2009-03-31
Department of Science & Technology	20.03500	Development of copper based bulk amorphous/nanocrystalline metallic glasses	2007-07-03	2010-07-02
Department of Science & Technology	37.09500	Nanocomposite thin films of Si-C-N system for wear resistance and functional application by magnetron sputtering on industrial substrate.	2004-11-15	2007-10-15
Department of Science & Technology	19.01000	Wear behaviour of diamond reinforced composites	2005-02-01	2008-07-31
Department of Science & Technology	6.02500	Development of magnesium based alloys for high temperature applications	2005-09-01	2008-08-31
Department of Science & Technology	9.72000	Development of Brazing foils by rapid solidification technique.	2009-02-05	2012-08-04
Department of Science & Technology	18.12720	Biomimetic hydroxyapatite coating on zirconium based biocompatible alloys.	2009-04-30	2012-04-29

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Department of Science & Technology	15.35360	Interaction of phases in Mechanically Treated Multi-component Systems	2009-12-01	2011-11-30
Department of Science & Technology	107.43400	Technology Development for Geopolymer Pavement Tiles from Fly Ash.	2010-01-01	2014-06-30
Department of Science & Technology	8.31600	In situ synthesis of metallic and intermetallic nanoparticles with controlled dimensions and topography for biomedical applications.	2009-11-23	2012-11-22
Department of Science & Technology	8.97600	Recovery of Zinc from Industrial Effluents using Ion-Exchange Process	2003-10-17	2006-10-16
Department of Science & Technology	24.85000	Biomimetic route to hybrid nano-composite scaffold for tissue engineering	2005-08-22	2009-02-21
Department of Science & Technology	6.43000	Establishment of DST-NML hallmarking centre	2003-01-22	2004-01-21
Department of Science & Technology	8.36976	Synthesis of Nd-Fe-B magnet alloy powder by chemical route	2003-04-01	2004-12-31
Department of Science & Technology	4.38000	Extraction of acid and iron values from the pickle liquor of steel liquor of steel and electrolysis industry	2003-09-01	2006-08-31
Department of Science & Technology	21.58453	Development and Characterisation of bulk amorphous and nano-crystalline ferro-magnetic materials	2003-06-20	2006-06-19
Department of Science & Technology	9.42000	The role of deformation induced martensite (DIM) on the corrosion behaviour of austenitic stainless steel	2003-06-01	2006-05-31

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Department of Science & Technology	6.80000	Synthesis of Ni based high value materials from low grade stocks and secondary materials by solvent extracti	2003-07-01	2007-03-31
Department of Science & Technology	6.69600	Development of toughened zirconia ceramics for tribological applications	2003-07-14	2006-07-13
Department of Science & Technology	6.75400	Metal status of the soil, water & vegetables of Patamda	1998-05-01	2000-04-30
Dept.of Ocen Development	21.00000	Processing of Polymetallic Sea Nodule Residue for the Production of Silicomanganese	2000-08-31	2001-07-31
Department of Science & Technology	1.72500	Textural development of AISI-316 Austenitic Stainless steel during cold rolling and annealing	1998-02-20	2000-02-20
Department of Science & Technology	5.49000	Comparative Geology, Mineralogy, Geochemistry and Origin of the Apatite Ores of the Iron Ore Series.	2000-03-01	2004-05-30
Department of Science & Technology	6.10000	Study on controlled adsorption of the surfactants and polymers on oxidic mineral systems for enhanced beneficiation of iron ores in their sub-sieve range.	2002-01-07	2004-12-06
Department of Science & Technology	16.92720	Development of cast Al-Fe-V-Si alloys as a wear resistant and elevated temperature materials.	2002-06-01	2005-05-31
Department of Science & Technology	19.11198	Synthesis & Characterisation of AlN-SiC Composites	1999-03-01	2002-02-28
Department of Science & Technology	6.68136	Improvement of the properties of cast Al-alloy by application of electric or magnetic field during solidific	2000-04-01	2002-09-30

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Department of Science & Technology	15.77600	Studies on Bioprocessing of Indian Ocean Nodules with reference to extraction of valuable metals	2001-02-01	2004-01-31
Department of Science & Technology	7.20000	Development of Electro Slag Gladding for Dissimilar Metals/ Bimetallic Alloys and microstructural characteri	2001-10-16	2003-10-15
Department of Information Technology	132.11000	Dev. of processing technology for recycling and reuse of electronic waste	2007-10-15	2011-03-31
Department of Science & Technology	17.87765	Study of particle dynamics and development of control strategy for improved performance in teeter bed separator	2007-07-12	2010-07-31
Department of Science & Technology	20.88300	Processing of nickel-cadmium spent battery	2007-11-01	2010-10-31
Department of Science & Technology	15.00000	Optimisation of ageing parameters and alloy compositions for improved age hardening response of AZ91 Mg allo	2008-04-01	0000-00-00
Department of Science & Technology	22.00400	Development of rheocast Mg-alloys for application in engineering industries	2008-04-01	2011-03-31
Department of Science & Technology	18.00000	Development of high magnetic flux polymer bonded magnetic composites employing microwave radiation	2008-04-01	2011-12-31
Department of Science & Technology	3.74000	Mechanisation of blacksmith's hammer & development of improved fuel efficient furnace for artisanal blacksmi	1998-01-30	1998-12-31
Department of Science & Technology	7.51411	Synthesis, Charac. and Evaluation of Anion Supported Mixed Oxide Nanocomposite Mater. as Solid Acid Catalyst	2003-07-04	2006-07-03

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Department of Science & Technology	0.20000	Financial Assistance to attend Int. Conference	0000-00-00	0000-00-00
Department of Science & Technology	33.70000	Opening of Raw Materials, Mechanical Activation & Soft Mechanochemistry	2010-02-01	2013-01-31
Department of Science & Technology	23.26390	Use of slag from Non-Ferrous Industries in Geopolymeric Material	2010-08-01	2013-07-31
Department of Science & Technology	24.91390	Biosynthesis of iron oxide based magnetic nanoparticles from industrial wastes	2010-09-01	2013-08-31
Department of Science & Technology	27.33000	Determination of Metal Fractionation Deposited on the Sediments of River Subernarekha System: A Voltammetric study.	2011-03-01	2014-02-09
Department of Science & Technology	33.26000	Autoclave processing/ pressure metallurgy for metal extraction and materials synthesis Activity I: Selective hydrothermal production of metal powder /oxides from waste sources Activity II: Hydrothermal precipitation of nano size oxides of aluminium and titanium	2010-06-01	2013-05-31
Department of Science & Technology	2.01000	Mossbuer Studies of the precipitation process in steels.	1999-04-09	2001-04-08
Department of Science & Technology	9.24000	Studies on the behaviour of fluxed iron bearing pellets in representative basic oxygen steel making process	2005-07-06	2008-07-06
Department of Science & Technology	11.54000	Development of Co-based low magnetostriction and high corrosion resistive amorphous and nanocrystalline alloys for soft magnetic applications.	2005-11-08	2008-11-07

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Department of Science & Technology	19.43919	Microstructural and textural evolution during recrystallization of cold rolled Al-Mn-Mg alloys	2005-11-03	2008-11-02
Department of Science & Technology	10.26000	Hydrothermal Synthesis and Characterisation of pure and doped boehmites	2006-01-01	2009-12-31
Department of Science & Technology	8.76000	Development of copper alloys for high strength and high conductivity applications	2006-01-01	2010-03-31
Department of Science & Technology	8.70000	A study on desorption/mobilization of arsenic species from Oxy-hydroxides of iron in the context of ground water arsenic contamination in the Indian sub-continent	2006-01-24	2009-01-24
Department of Science & Technology	21.43212	Thermomechanical characterisation of ceramic coating for turbine blade materials	2006-11-15	2009-11-14
Department of Science & Technology	12.12000	Determination of Fracture toughness of engineering materials using Ball Indentation Technique	2006-12-01	2009-11-30
Department of Science & Technology	19.60000	Preparation and characterisation of nanocrystalline materials for high temperature soft magnetic application	2006-12-01	2009-11-30
Department of Science & Technology	22.46004	Damage and deformation study in structural steel using non-linear ultrasonic technique	2007-01-01	2010-03-31
Department of Science & Technology	16.47000	Development of coloured gold alloy	2007-03-01	2009-02-28
Department of Science & Technology	10.02000	Eco-friendly surface treatment of galvanized rebars embedded in concrete to prevent hydrogen evolution and c	2005-07-01	2008-06-30

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Department of Science & Technology	21.86345	Study the effect of processing parameters on structure property relationship of new generation interstitial	2005-07-13	2008-07-12
Department of Science & Technology	12.39000	Dense Ceramic nano-composite by SHS processes	2005-11-17	2008-11-16
Department of Science & Technology	106.95500	Pilot Scale Smelting and pre-feasibility studies on Nickel-Chromium-Cobalt bearing Magnetite Ores of Nagaland for an economically viable plant	2006-05-01	2011-09-30
Department of Science & Technology	11.97000	Financial Assistance under BOYSCAST Fellowship of Dr.R.K.Sahu	2005-02-28	2006-02-27
Department of Science & Technology	0.30000	Financial Assistance to attend Int.Conference	0000-00-00	0000-00-00
Department of Science & Technology	11.66000	BOYSCAST fellowship - Advances characterization Techniques	0000-00-00	0000-00-00
Department of Science & Technology	12.57400	Physico chemical studies on the oxide mineral systems in the presence of surfactants and polymers for beneficiation of iron ores.	2009-01-01	2011-12-31
Department of Science & Technology	26.35590	Studies on creep and deformation behaviour of steel using magnetic NDE technique.	2009-01-28	2012-03-31
Department of Science & Technology	33.48000	Electrothermal processing for light metal extraction	2010-06-01	2013-05-31
Department of Science & Technology	4.15800	Al-Si-Zr Alloy Based Material for Biomedical Application	2009-11-23	2013-03-22

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Department of Science & Technology	4.46600	Development of geopolymer building materials through mechanical activation of Construction & Demolition Waste	2011-03-01	2014-02-28
Ministry of Steel	18.35000	Development of Iron making processes used by tribals of India.	1999-04-01	2001-03-31
Ministry of Coal & Mines	229.00000	Extraction of magnesium from Indigenous Raw Materials	1998-04-01	2004-06-30
Ministry of Earth Science	506.00000	Recovery of valuable metals from sea nodules by reduction smelting matte formation - ammoniacal pressure leaching hydrothermal reduction route.	2008-04-01	2013-03-31
Ministry of Earth Science	139.00000	Extraction and separation of metals from the leach solution of polymetallic sea nodules using pulsed column	2008-04-01	2012-03-31
Ministry of Earth Science	28.60000	Dev. of a filtering medium for arsenic removal using sea nodule leached residue	2008-04-01	2010-03-31
Ministry of Earth Science	238.00000	Improvement of reduction roast ammonia leach process of NML for recovering valuable metals from polymetallic sea nodules.	2008-04-01	2013-03-31
Ministry of Environment & Forest	4.00000	Preparation of state-of-art report on "Study on Metallic Waste"	1998-06-11	1998-12-01
Ministry of Environment & Forest	6.84324	An appraisal of the metal contents of Flora and Vegetables of East Singhbhum	1998-08-15	2001-07-15
Ministry of Environment and Forest	30.44000	Inventorization of Lead, cadmium, Mercury and Arsenic in Paints, Distempers and Pigments	2011-04-15	2013-04-14

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Ministry of Rural Development	3.30400	Development of low cost filtering medium for the removal of arsenic from ground water	1996-04-30	1997-03-30
Ministry of Rural Development	8.58000	Ground water quality assessment of sahebgunj district with special reference to arrive	1999-04-15	2000-04-14
Ministry of Rural Development	13.61392	Ground water quality assessment	2005-11-01	2009-12-31
Ministry of Steel	205.65402	Reduction of coke rate using probing and modelling techniques in BF no : 6 and BF. No : 7 of Bhilai Steel Plant	2007-07-02	2011-06-30
Ministry of Steel	72.45000	Dev. of synthetic flux through self-propagating sintering of LD sludge	2008-03-19	2011-03-30
Ministry of Steel	1,572.00000	Maximising Blast Furnace Productivity with Indian Iron Ore	2000-02-01	2005-12-31
Ministry of Steel	14.85000	Development of Iron making process used by tribal of India	2004-08-19	2007-05-30
Ministry of Steel	13.60000	Customisation and tuning of the blast furnace process models and real time simulator with real data	2006-01-01	2006-03-31
Ministry of Steel	141.00000	Production of Low Phosphorus Steel Using DRI through Induction Furnace Route adopting innovative fluxes and/or design (refractory) change.	2010-04-01	2012-11-30
Ministry of Steel	272.80000	Development of pilot scale palletisation technology for Indian Goethitic/Hematite ore with varying degree of fineness	2012-01-01	2015-06-30

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Ministry of Steel	858.00000	Alternative complimentary route of Direct Steelmaking with reference to Indian Raw Materials	2010-04-01	2013-12-31
Ministry of Steel	1,255.80000	Improvement in Sinter Productivity through Deep Beneficiation and Agglomeration for rational Utilisation of Low Grade Iron ore and Fines.	2010-04-10	2013-12-31
Ministry of Steel	308.40000	Development of technology to produce clean coal from high ash and high sulphur Indian coal	2011-01-01	2013-12-31
Ministry of Tribal Affairs (R&P Unit)	2.50000	Exploration of value addition to vegetable oils available in Minor forest areas for industrial application	2001-11-01	2002-10-31
Department of Science & Technology	15.48000	Recovery of Valuable metals from tungsten containing alloys scraps using hybrid hydrometallurgical process	2007-04-16	2011-04-15

For further information please write to:

The Director
 CSIR-National Metallurgical Laboratory
 Jamshedpur-831007
 Tel: +91-657-2345213, Telefax: +91-657-2345153
 Email: director@nmlindia.org