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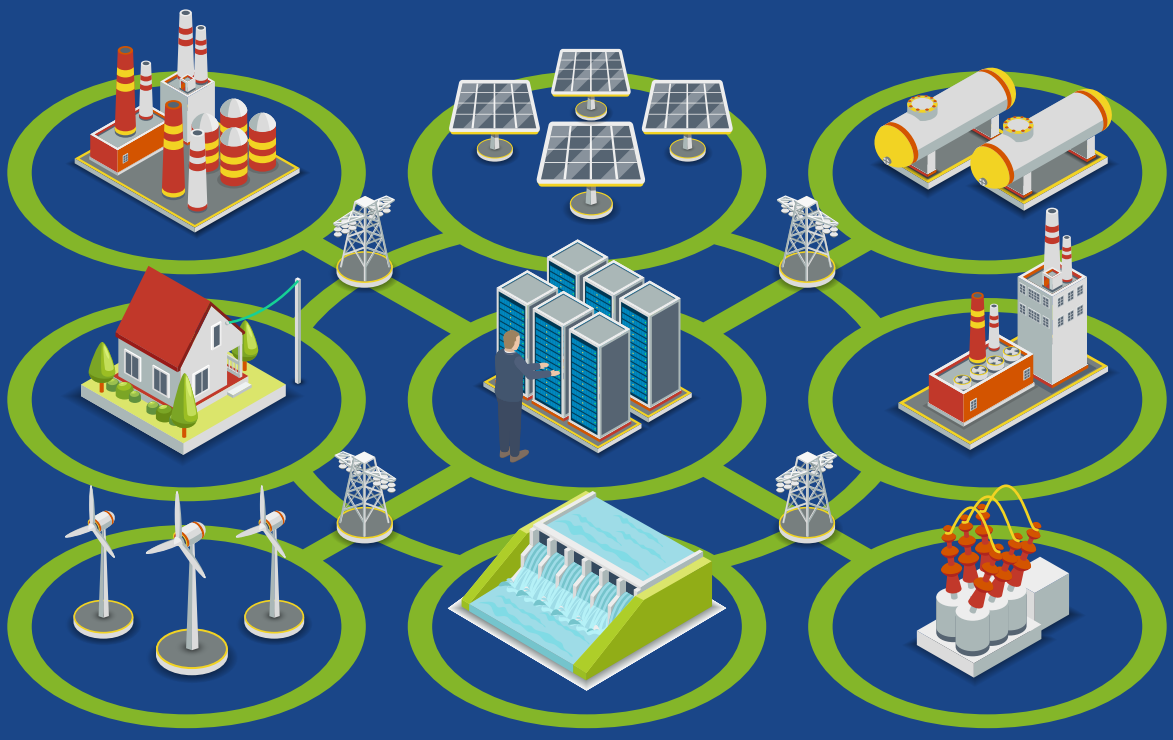
ENGINEERING THE FUTURE



COMPENDIUM OF SCHEMES FOR TECHNOLOGY UPGRADATION IN INDIA

2017-18

Compendium of Schemes for Technology
Upgradation in India 2017-18

June 2018

Disclaimer

This compendium is solely an attempt to highlight all the current schemes, offered by the Government of India in the public domain, made available through its various Ministries, departments and agencies.

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EEPCINDIA

ENGINEERING THE FUTURE

Preface

The Government of India has laid significant emphasis on achieving technological self reliance in order to ensure an all-round and inclusive economic development. In fact, enhancing India's technological competitiveness is at the heart of 'Make in India' initiative.

The Indian engineering sector provides major contribution to India's Gross Domestic product, foreign exchange earnings and overall employment. India has emerged as a major global engineering manufacturing destination. Yet despite India's resurgence, the majority of Indian engineering sector is still struggling to catch up with the modern manufacturing trends that are sweeping across the advanced manufacturing nations.

The Government of India through its various Ministries and Departments have promoted several schemes for extending financial assistance to the engineering enterprises to meet their different technology upgradation goals. These schemes cover almost the entire spectrum of engineering value chain, and they are available for all sizes of manufacturing units from startup entrepreneurs to micro, Small and medium and large scale enterprises.

EEPC India recognizes the critical importance of the technology upgradation schemes towards boosting India's engineering manufacturing competitiveness and exports. This compendium is an attempt to highlight all the major schemes available in India. The compendium may prove to be a vital utility to engineering units as a ready reference guide for meeting their needs for technology upgradation.

About the initiative of Technology Upgradation to boost Engineering Exports

Particulars	Descriptions
Mandate	Ministry of Commerce and Industry
Overall Supervision	Office of the Principal Scientific Advisor to the Government of India
Objectives	To identify cutting edge technologies for boosting exports of the potential engineering products from India To create a common platform for R&D Labs and Academic Research Institutes, Government Bodies and the Industry To facilitate upgradation of manufacturing competitiveness
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Implementation Approach	Reaching out to engineering clusters Identifying potential engineering products having significant global markets Encouraging formation of product clusters Promoting various Government technology upgradation schemes Promoting available expertise with premier R&D Labs and academic research institutes Facilitating technology development projects under Government schemes for engineering product clusters
Other Initiatives	Establishment of Technology Development and Common facility centres in Bangalore and Kolkata Promotion of Website for Technology Development of Knowledge repository
Target groups	Engineering enterprises; MSMEs; Engineering Clusters; Government Ministries etc

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Office of the Principal Scientific Advisor

Various initiatives for the engineering sector

Description

The Office of the Principal Scientific Advisor (PSA) to the Government of India undertakes evidence-based policy issues in the R&D domain and develop catalytic and interventional programmes projects to promote industry-academia-institute interaction in select areas. The scientific programmes/projects address the gaps in various R&D and technology areas, subjects which are not allocated to any specific department or dealt by many departments in bits and pieces, and future growth sectors. Some of the focus areas are: Policy Initiatives; Synergy Projects; IT Activities; etc.

Industry-academia linkages

The Office of the PSA in the process to constitute a committee for identifying various industry – academic linkage models through wider consultation and pilot test some of their applicability in Indian conditions to different industrial sectors and companysizes. R&D programme to encourage 'Directed Research' is also being developed. This programme supports industry – Academia / research institution linkage projects in all fields that aims to expand the knowledge of the industrial processes, understand know-why, improvements in industrial processes and generally address the applied research concerns of the industry. These measures, besides enhancing the industry–academia interaction, will promote industry oriented applied research in Indian R&D and academic institutions.

Intellectual Property Rights

Patents are one of the key determinants to measure the innovativeness and thus the competitiveness of the nation.

Recognising the importance of the area, the Office of the PSA has constituted an expert committee to conduct a comprehensive study of the national IPR performance covering the period of the first decade of the new millennium.

Synergy Projects

Synergy projects endeavours to bring in synergy among the various scientific departments and other ministries in creating an enabling S&T eco-system that encourages innovations across disciplines. It encourages R&D projects in `advanced high quality basic research', and `directed basic research', as also 'pre-competitive applied research' through academia-industry interactions. The development of specific projects, usually in partnership with other departments, revolves around this basic philosophy.

C-MAT - Core Advisory Group for Research and Development in the Machine Tools Sector

The Office of the PSA constituted a Programme Advisory Committee for R&D in

the Machine Tools Sector (PAC) renamed as the Core Advisory Group for R&D in the Machine Tools Sector (C-MAT) to promote the manufacture of high-tech machine tools through enhanced research and development (R&D) and better interaction between the academia and the industry.

The aim of the committee is to develop a Technology Road Map for the country's Machine Tools sector, identifying the thrust areas for Research and Development in that sector, examine the technology gaps in the Machine Tools sector, generate project proposals and recommend specific intervention programmes in the short and long term, identify individuals/groups and institutions, with core competence and recommend inter-institutional collaboration. Few projects under this programme are:

Modelling of Thermally Induced Errors in CNC Machine Tools Development of a New Model Using Dynamic Stress Profiles for (a) Prediction of Bearing Residual Life and (b) Deciding Optimal Condition Monitoring Intervals Development of a Next Generation High Precision Grinding Machine Tool

CAREL - Core Advisory Group for Research and Development in the Electronics Hardware Sector

The Office of the PSA in consultation with the Department of Electronics and Information Technology and the various industry associations, constituted the Core Advisory Group for R&D in the Electronics Hardware Sector (CAREL) to develop a Technology Road Map for the country's Electronics Hardware Sector, identifying the technology gaps in that sector and other related sectors and the thrust areas for pre-competitive applied research and directed basic research .To Identify focus areas (a) related to technologies where India can be a global leader and the methodologies for local companies to be enabled in these areas (b)building Focus Streams, for e.g. in Supercomputing, IT and Networking, Information Security, Telecommunication (including mobile communication), Consumer Durables, Convergence Products, etc. (c)Other possible areas are e.g. VLSI Fabs; components related to this sector in areas like internal security, particle accelerators, nuclear reactors, space vehicles, defence systems, tele-medicine, robotics, power electronics; etc.

CAREL has identified the high volume, low cost products, such as Set-Top Boxes, Tablet Personal Computers, Smart Phones, Smart Meters, Smart Cards, Micro-Automated Teller Machines etc. as target devices for development in India through indigenous R&D.

Green Chemistry

One of the primary goals of Green Chemistry is to prevent pollution at its source, as opposed to dealing with pollution after it has occurred. Accordingly, utilization of non-toxic chemicals, environmentally benign solvents and renewable materials are some of the key factors in green synthesis strategy.

The chemical industry of India is experiencing an annual growth rate of around 15% and has the potential to reach business turnover of around US $100 billion / year in near future. The share of basic, specialty and knowledge chemicals is about 57%, 25% and 18% respectively in India. It is expected that the ratio is likely to change in favour of knowledge intensive chemicals, which comprises pharmaceu-

ticals, agrochemicals and biotechnology, as India is emerging as a global hub for knowledge intensive areas.

Through the concept of green chemistry new developments in processes and products as well as optimization and improvements in designs will make the Indian industry competitive. Green chemistry is not only important from environment perspective but from economic enterprise gain also.

In view of this the Office of Principal Scientific Adviser to the Government of India has constituted a committee to address specific issues of Chemical Industry. The committee has identified five sectors of Indian Chemical Industry for adopting Green Chemistry concepts and is in the process of making its recommendations.

Energy-related Initiatives

Initiatives taken up for enhancing the energy security of the country:

- Development of the Integrated Gasification Combined Cycle (IGCC) Technology, as suited to coal gasification based power generation in India.
- Development of LED materials and devices for Climate Friendly Energy Conservation.
- Development of the Advanced Ultra Supercritical Technology for coal-based Power Generation.
- Launching of the Pre-project R&D for the Development of Boilers with Advanced High Temperature Materials.
- Launching of the Pre-project R&D for the design and development of blade profiles for high pressure turbine for Advanced Ultra Supercritical Parameters.
- Development on Super Bright White Light Emitting Diodes (LEDs) for Solid State Lighting (SSL) Applications.
- Supported to establish the technical feasibility of upgrading a 6.2 MWe IGCC technology based thermal demonstration plant of the Bharat Heavy Electricals Limited (BHEL), Tiruchirappalli, to~ 100 MWe..
- Prepared the Mission Document for 9th National Mission on Clean Coal (Carbon) Technologies under the National Action Plan on Climate Change (NAPCC).
- Constituted an Apex Committee for an Integrated Photonics Initiative to develop a Road Map for research and development in various streams of Photonics, thereby identifying the thrust areas. The identified thrust areas are
- Laser Diodes and Laser Diode Arrays.
- Plasmonics.
- Fibre Lasers.

Medical Devices

The Office of the PS has identified medical devices as one of the areas for S&T intervention and has constituted a committee to provide a report on this sector with a holistic view to give a thrust to the industry. The committee is in the process to give its recommendations.

The Medical Devices sector is driven by innovation and is knowledge intensive. The R&D in medical devices is multi-disciplinary and requires wide ranging expertise in different fields. It requires not only advanced infrastructure but also technical competence. Thus to foster self-developed and IPR protected Indian

technologies, S&T inputs through synergy become crucial for the survival and competitiveness of the sector.

The sector offers immense opportunities for exports and a holistic approach is required to leverage the competitiveness. There are about 750 manufacturers engaged in manufacture of medical devices and over 90% of them are in Small and Medium sector. In many Product Lines Indian companies now enjoy non price competitiveness against other countries and many Indian companies have put up 100% export oriented units. S&T inputs will strengthen the position industry immensely.

National Security Related Initiatives

Initiatives taken by the Office of the PSA in the security sectors of the country are:

- Development of infrared sensor for night vision devices using GaAs/ AlGaAs based QWIP structures.
- Oil Spill Management.
- Development of bulk encryption system and a secret algorithm.
- Development of an explosive detector based on Ion Mobility Spectrometry Technology.
- Development of a Readout Integrated Circuit for an 8X8 QWIP array.
- Development of a Test Bed for the evaluation of QWIP arrays.
- Development of Micro Cantilever based Sensors for detection of vapours of explosive chemicals.
- Development of Aerosol Preconcentrator for use with Chemical Sensors.
- Development of Read-Out Integrated Circuit (ROIC) for 320x256 Quantum Well Infrared Photodetector (QWIP) arrays.
- Stand-off detection of explosives based on immuno-chemical techniques.

Strategic Sectors Initiatives

- Setting-up of World-class Institutes (Centres) on microelectronics and nanoelectronics (Nanotechnology).
- Scientific Evaluation of Sterilization Practices in India.
- Stimulating Demand for Indigenous Technology Products.
- Underground Coal Gasification.
- Setting-up an Ortho-CAD Network Centre for indigenous developments of reconstructive surgical solutions required for orthopaedic applications.
- Working Group on the Scientific and Technological Measures to counter Spurious & Sub-standard Drugs and Diagnostic Centres.

IT Activities

The Office of the PSA undertakes several initiatives in the area of Information & Communication Technologies. The idea of setting up of NKN network was deliberated and finalised at PSA office. Many important projects on Cyber Security, SETS etc. have also been catalysed.

NKN- National Knowledge Network

The NKN is a state-of-the-art Pan-India network which will facilitate the develop-

ment of India's information infrastructure, stimulate research and create next generation applications and services. NKN project is aimed at establishing a strong and robust internal network which will be capable of providing secure and reliable connectivity. Using NKN, all vibrant institutions with a vision and passion will be able to transcend space and time limitation in accessing information and knowledge and derive the associated benefits for themselves and for the society.

The idea of setting up a National Knowledge Network (NKN) was deliberated and finalized at the Office of Principal Scientific Advisor to the Government of India and the National Knowledge Commission after a collaborative engagement with the key stake holders including experts, potential users, telecom services providers, educational and research institutions.

The NKN comprises of an ultra-high speed CORE (multiples of 10 Gbps), complimented with a distribution layer at appropriate speeds. Participating institutions at the Edge will connect to the National Knowledge Network seamlessly at speeds of 1 Gbps or higher. The network is designed to support Overlay Networks, Dedicated Networks, and Virtual Networks. Advanced applications in areas such as Health, Education, Science & Technology, Grid Computing, Bio informatics, Agriculture, and Governance will be an integral part of NKN. The entire network will seamlessly integrate with the global scientific community at multiple gigabits per second speed.

NKN is highly scalable and offers a great speed coupled with extremely low latencies at affordable cost and backbone with Quality of Service (QoS) and security. More than 900 research institutions, universities are connected through NKN and which can virtually share the knowledge across in India.

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Department of Scientific & Industrial Research (DSIR)

Scheme for Common Research and Technology Development Hubs (CRTDH).

Description

This is a new programme is aimed at creation of Common Research and Technology Development Hubs (CRTDHs) to encourage research and technology development activities by MSEs. These hubs would facilitate MSEs to undertake new/improved product/process development and skill enhancement activities. The collaborating institutions would extend hands-on training, skill development and research information facilities to the MSEs, apart from research and technology development infrastructure. Creation of these CRTDHs will enhance productivity, increase the innovative skills of the MSEs and help them become globally competitive, and also generate more employment. Proposals are Invited from the following sectors: Electronic/Renewable Energy; Affordable Health; Environmental interventions

Models for MSEs/innovators engagement with CRTDH

Flexible/ Virtual Model: The MSEs/Innovators may plan to work on their innovations themselves or opt for virtual presence through technical support from CCMB. Equipment/facilities can be used by themselves or seek necessary help from Scientists of CCMB. In this model, IP remains wit
h MSEs/ Innovator that will bear patent cost.

Licensing Model: MSEs/Innovators having some idea but not confident of taking forward their ideas may explore licensing of innovative/ patented technologies developed by CCMB. These can be further developed into marketable products based on the experience and assessment of MSEs/Innovators. CCMB-CRTDH would provide technical support, infrastructure and equipment usage to MSEs. The. IP remains with CCMB on the patented technologies. In case of new development/ improvement of existing technology, IP will be co-shared and also expenditure in filing the patent.

Joint Venture Model: Two or more MSEs can agree to pool their resources for the purpose of development of a new product/process/service. CRTDH will provide R&D support to MSEs for developing innovative products and to build confidence, strengthening and competitiveness by extending technical assistance. IP will be jointly shared by the MSEs and CCMB for joint development of product/ process.

Nature of assistance

Partial financial support would be provided to eligible institutions as grant-in aid to establish CRTDHs for enabling MSEs conduct industrial R&D and innovation activities.

Who can apply

The Applicant Host Organization should be from National laboratories, Public

funded bodies or Institutions having a distinct legal entity, which are willing and capable of setting up these CRTDHs in places located in the proximity of clusters of MSEs working in the targeted sector.

How to apply

Dsir.gov.in

Contact and website

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Department of Scientific & Industrial Research (DSIR)

Scheme for Industrial R&D Promotion Programme (IRDPP)

Description

DSIR is the nodal department for granting recognition to in-house R&D units established by corporate companies, Scientific and Industrial Research Organizations (SIROs) and registration to Public funded research Institutions like universities, IIT's, IISc, Regional Engineering College (RECs) other than hospitals.

The In-house R&D units applying for recognition to DSIR are expected to be engaged in innovative research & development activities related to the line of business of the firm, such as, development of new technologies, design & engineering, process/product/design improvements, developing new methods of analysis & testing; research for increased efficiency in use of resources, such as, capital equipment, materials & energy; pollution control, effluent treatment & recycling of waste products or any other areas of research. It may be noted that market research, work & methods study, operations & management research, testing & analysis of routine nature for operation, process control, quality control and maintenance of day to day production, maintenance of plant are not considered as R&D activities. This is the only scheme in the entire government set-up for benchmarking the industrial R&D

Nature of assistance

The Government of India has announced a number of fiscal incentives for research

and development by industry from time to time and many of these incentives are implemented through DSIR. In-house R&D units recognised by DSIR are not only eligible for these incentives (wherever applicable) but also for receiving funds for R&D from other government departments and agencies such as DST, DBT, Deity, MoEF, MNRE, MoFPI, CSIR, ICMR, ICAR, TDB where recognition To the in-house R&D centre by DSIR is a requirement.

Who can apply

I. The applicant should be a company registered under the Companies Act, 1956 or 2013.
II. The company shall be eligible for consideration only after the completion of three financial years after formation.
III. The applicant should have regular source of income at least during the last two years to sustain the business and this needs to be elaborated in the application.
IV. The companies seeking recognition to their in-house R&D units should be engaged in manufacture or production or in rendering technical services.
V. Companies fully engaged in contract research are also eligible for consideration provided independent infrastructure is available for research activities. Those engaged in research only at present but have plans to start manufacture at a later date may also be considered for the recognition, if there is a potential.
VI. The R&D unit(s) should not be located in residential areas but should be operating in premises authorized by the relevant Central/State Government. (Proof for such authorization needs to be furnished).
VII. Independent infrastructure for research activities and adequate technically qualified manpower should be available (Minimum area for the R&D activities should be at least 1000 Sq. ft.).
VIII. At the time of application, the R&D unit(s) should be functional and should have well defined, time-bound R&D programmes leading to development of innovative products and/or technology(ies).

How to apply

Companies desirous of seeking recognition to their in-house R&D units should apply to DSIR online through www.dsir.gov.in or though the Portal Link: (http://dsir.csir.res.in/DSIRPrograms/Login/Default.aspx).

Contact and website

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Department of Scientific & Industrial Research (DSIR)

Scheme for Patent Acquisition and Collaborative Research and Technology Development (PACE)

Description

SCOPE OF SCHEME

Nature of Proposals supported –

a. Development of a new or improved product resulting in prototype development and ending with demonstration in commercial environment.
b. Development of a new or improved process resulting in establishment of process knowhow, development of process equipment and demonstration of yield, efficacy etc in a pilot plant.
c. Absorption and up-gradation of imported technology.
d. Priority technology development projects of PSUs in consultation with and cofinancing from economic ministries.
e. Development & demonstration of technologies for common use by cluster of industries.
f. Development & demonstration of technologies for government's flagship and mission mode projects.

Methodology

Organizing seminars and workshops involving technology seeks as well as providers, besides other stakeholders to identify technologies to be acquired and the prospective industries desirous of acquiring those technologies. It is proposed to acquire technologies for which patents have been filed in PCT or which have been patented in any one of USPTO, EPO, Japan, Australia, Korea, China or India. It is further proposed to cover the life sciences and the manufacturing sectors and adopt a cluster based approach for technology transfer/acquisition.

Evaluation of the technologies identified for acquisition is proposed to be carried out by an expert committee comprising of eminent technology valuers as well as specialized agencies in the area. The evaluated technologies would then be acquired by NRDC, a PSU of DSIR after negotiation with technology provider. The acquired technology would be transferred to two or more industries on a non-exclusive basis for a reasonable lump-sum value or the acquired technology could be transferred to a specific industry on an exclusive basis by extending 50% of the value of technology as loan.

Nature of assistance

Support (loan generally up to 50% of the project value) shall be provided to industry for technology development and demonstration, i.e. adding value to the acquired technology or their indigenous technology and develop Made in India products. While it will be mandatory for industry acquiring technology on exclusive basis to go for technology development and demonstration, it will be optional for industries acquiring technologies on non-exclusive basis. Industries could in-

volve public funded research institutions (PFRIs) for technology development and demonstration. Support to Indian PFRIs shall be grants-in-aid.

Who can apply

i. Start-ups will be encouraged to acquire IP on non-exclusive basis;
ii. Technology development and demonstration and technology acquisition under the scheme shall be open for all industries registered in India which are more than three years old and have a healthy financial track record (profit making companies), preferably those having DSIR recognized in-house R&D units.
iii. The identified R&D organization/ academic institution/ university in India or abroad, for collaboration with the industry should have the requisite expertise and track record in the proposed area of research. The proposals can be made by industrial units, either on their own or jointly with research/ educational institutions. If the projects involve collaboration with/assistance from national research/educational institutions, international bodies/companies, individuals, the proposals should clearly highlight the scope of work and responsibilities of each entity participating in the project. MoUs/Agreements between the concerned entities, towards this should be submitted.

How to apply

www.dsir.gov.in

Contact and website

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Department of Scientific & Industrial Research (DSIR)

Promoting Innovations in Individuals, Start-ups and MSMEs (PRISM)

Description

PRISM scheme aims at to support individual innovators which will enable to achieve the agenda of inclusive development - one of the thrust areas of XIIth five year plan (2012-2017). It would also provide support to institutions or organizations set up as Autonomous Organization under a specific statute or as a society registered under the Societies Registration Act, 1860 or Indian Trusts Act, 1882 leading to development of state-of-art new technology solutions aimed at helping MSME clusters.

Nature of assistance

Maximum support may be up to 50.00 lakh limited to 50% of the total project cost. The support may be provided for scaling up technology based innovations, including patenting/design registration/trademark registry/ technology transfer to develop a marketable product/process towards enterprise creation. Successful PRISM innovators or innovators who have successfully demonstrated proof of concept with the support of other government institutions/agency.

PRISM-R&D proposals: Maximum support may be up to 50.00 lakh, limited to 50% of the total project cost for developing technology solutions aimed at helping MSME clusters - Any R&D institute / autonomous institutions/public funded laboratories/ academic institutes and so on.

Who can apply

Any Indian citizen having innovative idea and wish to translate their idea into working prototypes/models/processes; public funded institutions or organizations viz. Autonomous Organizations or Society registered under the Societies Registration Act, 1860 or Indian Trusts Act, 1882 engaged in promotion of innovation.

How to apply

www.dsir.gov.in

Contact and website

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Department of Scientific & Industrial Research (DSIR)

Access to Knowledge for Technology Development and Dissemination (A2K+)

Description

A2K+ is a scheme targeted towards developing mechanisms to disseminate science, technology and innovation related information to industries, research and academic institutions, in-house R&D units of industry, Scientific & Industrial Research Organizations (SIROs), consultants, industry associations, techno-entrepreneurs, government departments and others.

Nature of assistance

Supporting industrial technology related studies; Supporting the organization of national and international conferences, exhibitions etc.; Support for Technology Development and Utlization Programme for Women, including projects spilling over from the 11th five year plan (TDUPW) ; Continuing support to Technology Development and Demonstration Programme projects, spilling over from the 11th five year plan (TDDP)

Who can apply

Any Indian citizen having innovative idea and wish to translate their idea into working prototypes/models/processes; public funded institutions or organizations viz. Autonomous Organizations or Society registered under the Societies Registration Act, 1860 or Indian Trusts Act, 1882 engaged in promotion of innovation.

How to apply

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Department of Science and Technology

Scheme for Funding Industry Relevant R&D

Description

Objective: The objective of the scheme is to utilize the expertise available in academic institutions and national laboratories to solve industry specific problems for the larger benefit of society. Nature of Proposals to be Supported: The scheme is aimed at supporting ideas that address a well-defined problem of industrial relevance. The proposal, therefore, shall be jointly designed and implemented by the academic partner (which includes a partner from national laboratories/recognized R&D institutions as the case may be) and industry. The participating industry should ensure that the objectives are industrially relevant. Routine proposals that address conventional problems and those not related to industry, or with already established approaches are not encouraged. SERB will not list out the industry relevant problems, and it will be the responsibility of the investigator and the industry to join together and come up with a proposal to solve the identified problem. Ideally, the proposal must contain the characteristics of any of the following: Proposals that adopt an innovative approach to solve a problem faced by the industry; Proposals whose outcomes will bring new scientific and technological innovations; Solution driven research that aid technology transfer and commercialization.

Nature of assistance

The funding shall be shared between SERB and Industry. The industry share should not be less than 50 % of the total budget. Overhead is provided to the academic partner. The SERB share shall not exceed Rs. 50 lakh for a project. The upper cap may be relaxed on case to case basis. The funding can be provided for a maximum period of three years. The support from SERB shall be extended only to the the academic partner and not to the industry. The research grant will be provided for equipment, manpower, consumables, travel, pilot plant study, and any other costs associated with the project. It is expected that the equipment will be installed in the institution where the academic partner is working.

Who can apply

i. Academic Partner Indian citizens residing in India. The academic partner must hold a regular academic/research position in an academic institution or national laboratories or recognised R&D institutions. More than one academic partner may be allowed.
ii. Industry Partner All industries (including MSME & industrial R&D Centres) are eligible. More than one Industry and or more than one Investigator from one Industry can be associated in a project.

How to apply

http://www.serb.gov.in/irrdformat.php

Selection & Mode of Application:
The proposals can be submitted anytime of the year through the website: www.serbonline.in

The proposal must be jointly submitted by the Principal Investigator and the Co-investigator from Industry. The Industry should explicitly state in the proposal its (a) financial commitments and (b) any other support (if any) provided to the academic partner.

The selection will be based on scientific and technical feasibility of the proposal, track record of the PI, and commercial potential.

The IP generated shall be shared between the investigator(s) and industry partner(s). SERB shall have no objection for the partners to share the Ips.

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Department of Science and Technology

Scheme for Instrumentation Development Programme

Description
The Department of Science & Technology (DST) has been promoting the area of Instrumentation through its Instrumentation Development Programme (IDP). Objectives: The programme focuses on strengthening indigenous capability for research, design, development and production of instruments in the country leading to Indigenous development and production of instruments; Continuous updating of the technology of instruments to keep pace with technology improvements taking place globally, and Innovations in the area of instrumentation. Activities supported under IDP:

Programmes to support and sustain development and production of indigenous and affordable instruments are evolved and supported under the IDP. The following types of activities are evolved and supported under IDP:

- Project support to scientists and technologists: The Instrument/technology development programmes are supported with mandatory industry participation so as to facilitate easy absorption of technology and commercial production of the developed instrument/technology.
- Project Formulation The following activities are supported under IDP for evolving well defined co-coordinated Research & Development projects involving Scientists/Technologists; Industries and Experts:
  - Cluster of Projects Meetings on identified Themes in Thrust Areas
  - Brainstorming Sessions/Discussion Meetings in Specialized Areas of national importance

- Creation of National Facilities Instrumentation hub is a theme based establishment for development of commercial models of laboratory prototypes developed in the laboratory as per industry/user specifications. It is proposed to be Industry friendly and will keep sustained interaction with relevant industries. Instrumentation Hub will house sophisticated facilities for prototype development, translational facility and a platform for technology incubation. It will also provide facility for batch production of laboratory prototypes for market validation. Facilities will be available on sharing basis to all the participating institutes/industries. In all such cases, the host institute provides land, building, core manpower and thus maintains the facility. The host institute is also responsible for signing of bilateral MOU's with participating institutes and will also serve as coordinating agency between DST and other participating organizations. The Host Institute will project the annual budgetary requirements to DST during the period of support. Steering Committee duly constituted by DST will regularly monitor the activities and progress of activities of the Instrumentation Hubs.

Nature of assistance

http://dst.gov.in/sites/default/files/idpform.pdf

Who can apply

http://dst.gov.in/sites/default/files/idpform.pdf

How to apply

http://www.serb.gov.in/irrdformat.php

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Ministry of MSME

Scheme for Promotion of Innovation, Rural Industry & Entrepreneurship (ASPIRE)

Description

Objective of the scheme are as follows:- (i) Create new jobs and reduce employment, (ii) Promote entrepreneurship culture in India, (iii) Grassroots economic development at district level, (iv) Facilitate innovative business solution for unmet social needs, and (v) Promote innovation to further strengthen the competitiveness of MSME sector.

Nature of assistance

A. Livelihood Business Incubators by NSIC,KVIC,Coir Board or any other Institution or any other Institution or Agency of Govt. of India/State

- Setting up LBI's (100 lakh for NSIC&ors. And INR 50 lakh for eligible agencies under PPP) for plant & machinery only.

B. Technology Business Incubators

1. Incubation centre
   - Support for Existing Incubators(INR 30 lakh for incubator capex*)
   - Setting up of New Incubator(INR 100 lakh for incubator capex*)
2. Incubation of Ideas(INR 3 lakh per idea)
3. Creation of Enterprise out of innovative idea(Seed Capital fund@ INR 1.00 cr. per incubator for enterprise creation@ 50% of project cost or 20 lakh per successful idea whichever is less)
4. Accelerator workshop

Who can apply

- Any individual, above 18 years of age as an incubate can be skilled;
- Any entrepreneur who wants to set up start-ups;
- Any technical/research institutes/universities including those in the field of rural and agro based industry;
- Any institution or agency under the Government of India or any State Govt. in the field of technology, rural development and entrepreneur development, business management or any body corporate under PPP mode can set up LBI;
- Any existing incubation centres operating currently under different Ministries and departments of the Govt. of India or institutions including National/regional level institutions of GOI/state Govts. To set up such centre dedicated to incubation and entreprise creation in the area of Agro based Industries and also new incubation centres to be set up by eligible private institutions including industry Association, along with the Academic Institutions, R & D laboratories, Universities, Govt. entities and Technology Parks;
- Institutions registered under Socities Registeration Act, 1860;
- Production Co-operative Societies and Charitable Trusts;

- Existing Incubators and the incubators that have already availed Govt. Subsidy under any other scheme of Govt. of India or State Govt. for the same set of activities under Incubation are not eligible.

How to apply

Proposal in the prescribed Performa along with necessary enclosures and endorsement from the Head of the existing incubator or from the Head of the Institution interested in setting up of new incubator may be sent to the following addresses:-
The Member Convener,
Scheme Steering Committee, ASPIRE,
O/o The Joint Secretary (ARI) Division,
Room No.171 Udyog Bhawan, New Delhi-110011.
Tel-011-23061543,
Fax-011-23062858
Email: js.ari@nic.in

Contact and website

http://www.msme.gov.in/

Ministry of MSME

Scheme for 'Credit Linked Capital Subsidy for Technology Upgradation (CLCS- TU)'

Description

The Scheme aims at facilitating technology up-gradation by providing 15 per cent upfront capital subsidy up to a maximum cap of ₹ 15.00 lakhs (i.e., maximum investment in approved machinery is ₹ 1.00 crore) to MSE units including tiny, khadi, village and coir industrial units on institutional finance availed by them for induction of state-of-the-art or near state-of-the-art technology for up-gradation of the present technology level to a substantially higher one involving improved productivity, and/or improvement in quality of product and/or improved environmental condition including work environment. It would also include installation of improved packaging technique as well as anti-pollution measures, energy conservation machinery, in-house testing and on-line quality control.

Scope

Presently, the Scheme facilitates subsidy to 51 sub-sectors/products including Khadi and Village Industries. As the Scheme progressed, the list of products/sub-sectors has been expanded by inducting new technologies/products/sub-sectors with the approval of the competent authority i.e., Technical Sub-Committee (TSC) and Governing and Technology Approval Board (GTAB) of the CLCSS.

Implementation

At present, the Scheme is being implemented by 12 nodal banks/agencies including SIDBI and NABARD. Except SIDBI and NABARD, all the nodal banks/agencies

would consider proposals only in respect of credit approved by their respective branches, whereas, for other Primary Lending Institutions (PLI) approved under the guidelines, SIDBI and NABARD would be the nodal agencies for release of subsidy under this Scheme. Online Application and Tracking System has been introduced w.e.f. 01.10.2013 and the SME units need to upload their subsidy claim application though their PLIs.

Nature of assistance

Financial assistance for availing credit and loan.

Who can apply

1. Banks and financial institutions can apply to DC-MSME for availing support.
2. MSMEs need to directly contact the respective banks for getting credit and capital subsidy.

How to apply

This Scheme is linked with term loans availed by the MSEs from Banks or Financial Institutions. To claim subsidy under CLCSS, eligible MSEs are required to apply online through Primary Lending Institutions (PLIs), from where the MSEs availed term loan for up-gradation of technology. The completed application is being uploaded by PLI through Online Application and Tracking System to the attached Nodal Agency, which, in turn, recommends the application online to Office of DC (MSME) for release of subsidy. After processing of application and subject to availability of funds, due approval is accorded from competent authority and concurrence of Internal Finance Wing, after which funds are released to Nodal Agencies. Funds are then transferred by the Nodal Agencies to the PLIs where the account of the MSE is operated.

Contact and website

http://www.msme.gov.in/

Ministry of MSME

Intellectual Property Facilitation Centres for MSMEs

Description

Salient Features

Sensitise Entrepreures on IPR related matters by providing financial assistance for taking up the identified initiatives covering broad areas of interventions as noted below:-

- Sensitising SMEs on IPR related issues by organizing Awareness / Sensitisation Programmes
- Conducting Pilot Studies and Interactive Seminars / Workshops for selected Clusters and Groups of Industries.

- Specialized Training programmes for Government officials and Industries.
- Assistance is being provided to the Granted Patent & Geographical Indications.
- Implementing agency has to contribute 10% of the GOI assistance for each activity prescribed in the scheme guideline.

These initiatives are being implemented through various eligible implementing agencies prescribed in the scheme guidelines. The eligible agencies may submit applications for the above said components defined under the scheme, directly to the O/o DC-MSME. The proposals are examined and placed before the constituted Project Implementation Committee (PIC) for approval. The guidelines are available on the official website of O/o DC-MSME

Nature of assistance

- Awareness/ Sensitisation Programmes on IPR with financial assistance is upto Rs.1.00 Lakh per programme of one day duration each. This awareness programme may be organized by eligible implementing agencies like Industries Association, Chambers etc.
- Interactive Seminars / Workshops IPR with financial assistance is upto Rs.2.00 Lakh per programme. This awareness programme may be organized by eligible implementing agencies like industries Association, Chambers etc
- Specialized training for Government official and Entrepreures to trend them on IPR related issues. For short-term training programme financial assistance is upto Rs.6.00 Lakh per programme is being provided and for long-term training programme financial assistance is upto Rs.45.00 Lakh per programme.
- Setting up a Intellectual Property Facilitation Centre (IPFC) for MSMEs with financial assistance up to Rs.65.00 Lakh per centre. This awareness programme may be organized by eligible implementing agencies like expert agencies and prominent Industries Association etc.

Who can apply

Industries Association, Chambers , Units with Registration or EM credentials, Consultancy Organizations, Government aided autonomous bodies

How to apply

http://www.msme.gov.in/

Contact and website

http://www.msme.gov.in/

Ministry of MSME

Design Clinic

Description

Objectives of the scheme
Design Clinic Scheme for Design Expertise to MSME manufacturing sector.

- To create a sustainable design eco system for the MSME sector through continuous learning and skill development
- Bring the industrial design fraternity closer to the MSME Sector
- Develop an institutional base for the industry's design requirement;
- Increase the awareness of the value of design and establish design learning in the MSME
- Increase the competitiveness of local products and services through design. Salient Features
- Applicability of project funding is to an individual MSME or a group of MSMEs coming together.
- A Design Company/ Academic Institutions will visit the unit and scrutinize all designs relevant fields & will suggest next steps to be taken.
- Project Proposal to be prepared and to be submitted to Design Clinic Centre for consideration.
- Mobilization and co-ordination workshop for MSME officials.
- Seminar / Workshops (including need assessment survey).
- Promotional Activities such as Orientation programme for stake holders, Study on Global Practices & Design Clinic Programme of other countries and National Level Workshop, etc.
- Implemented through National Institute of Design (DIPP Institution).

Nature of assistance

Financial assistance given to MSMEs for design development.
Major activities taken under the scheme The scheme is divided in two major parts:
i. Design Awareness- Seminars & Workshop Design Seminars: One day seminar covering design related topics to sensitize MSME's about the usage of design in various facets of their industry. (GOI contribution Rs. 60,000/- per programme).
Design Workshop

- Total time allocated for each workshop is 3 - 5 days.
- One day will be spent in visiting Cluster & understanding issues concerned with cluster. Thereafter there will be training on design clinic solution delivered by an expert or a group of experts in an interactive manner. (GOI contribution Rs. 3.75 lakh per programme).

ii. Design Projects – Professional Design Projects & Students Design Projects
Professional Design: To facilitate MSMEs to develop new Design strategies and or design related products and services through project interventions and consul-

tancy. (GoI contribution @ 75% for micro, 60% for SMEs for the project range Rs. 15 lakh to Rs. 40 lakh.)
Students Design Projects: Students in the final year under UG/PG programmes from institutions recognized by design clinic centre are eligible under this activities for the project work done for respective MSMEs. (GOI contribution @ 75% for the project cost of Rs. 2 lakh)

Who can apply
All MSMEs with EM registration.

How to apply
http://www.msme.gov.in/

Contact and website :
http://www.msme.gov.in/

Ministry of MSME

Lean Manufacturing

Description
Objectives of the Scheme is to enhance the manufacturing competitiveness of MSMEs through the application of various Lean Manufacturing (LM) techniques by - Reducing waste; Increasing productivity; Introducing innovative practices for improving overall competitiveness; Inculcating good management systems; and Imbibing a culture of continuous improvement.

For 12th Five Year Plan, the scheme is being implemented for 500 Mini Clusters, National Productivity Council and Quality Council of India have been selected as National Monitoring and Implementing Units (NMIUs) for the up-scaled scheme.

Nature of assistance
Financial assistance given to MSMEs for Lean Techniques Intervention . Awareness programmes and workshops are being organized in order to create awareness among the entrepreneurs and further they are motivated to form mini cluster comprising of 6 to 10 units (ideally 10 units) for availing the scheme. LM consultants are deployed in the Special Purpose Vehicle (SPV)/Distinct Product Group (DPG) for LM Interventions for a period of 18 months. 80% of the cost of hiring the lean manufacturing consultant (LMC) is reimbursed through NMIUs to SPVs/Units and 20% of the cost is borne by the SPVs/units. All Manufacturing sectors of Micro, Small & Medium Enterprises.

Who can apply
All Manufacturing sectors of Micro, Small & Medium Enterprises.

How to apply
http://www.msme.gov.in/

Contact and website
http://www.msme.gov.in/

Ministry of MSME

Quality Management Standards & Quality Technology Tools

Description
Scope
The scheme is being implemented for Micro & Small Enterprises to understand and adopt the latest Quality Management Standards (QMS) and Quality Technology Tools (QTTs), so as to become more competitive and produce better quality products at competitive prices. The adoption of these tools will enable MSEs to achieve: (i) Efficient use of resources. (ii) Improvement in product quality. (iii) Reduction in rejection and re-work in the course of manufacturing. (iv) Reduction in building up inventory at the various stages in the form of raw materials, work-in-progress, finished components, finished products, etc. This will also enable the MSEs to enter into or strengthen their position in the export market. The Competition Watch(C-watch) sub-component of this scheme will enable Indian MSE, to understand the latest foreign products that are penetrating in the Indian market.

The scheme is aimed at improving the quality of the products in the MSE sector and inculcates the quality consciousness in this sector. The Cluster-based approach is adopted for economy of scale, better dissemination of QMS/QTT and for best results. However, individual units (preferably from specific products in groups) may also be considered under the Scheme. Micro & Small enterprises is being selected from the clusters under study or intervention by this Ministry and clusters identified by other Organization and Ministries also. The scheme insists of multifold activities out of which following major activities are being implemented through various expert agencies/organization, viz. One day Awareness Campaign, 2 days duration workshop at Metros,One National Level workshop at Delhi, Implementation of QMS/QTT in selected MSEs Cluster, Monitoring International Study Mission, ITI/Polytechnic teacher training, Course module in polytechnic syllabus, etc.

Nature of assistance
- The Scheme will be implemented through office of the Development Commissioner (MSME) by involving expert organizations or by using in –house expertise wherever available.
- The Expert Institutions/Organization like Quality Council of India and National

Recruitment Board for Personnel and Training, Consultancy Development Corporation, National Productivity Council. Standardization Testing & Quality Certification (STQC, a Society under Ministry of IT) , IIQM(India Institute of Quality Management), Industry Associations that have taken active interest in QMS/QTT and Technical Institutions, Engineering Colleges, Tool rooms and similar bodies. etc. may be engaged in the implementation of the Scheme

Who can apply

All MSEs with EM registration.

How to apply

Procedure for attending the activities and availing of financial assistance under the scheme:

i. The MSEs are to submit applications directly to the respective MSME-DIs/Expert Organisations for various activities for which they are asked to submit.
ii. The funds will be released to the expert organizations activity wise in the phased manner for the specific activity.
iii. Contribution of 25% from Micro units and 50% from Small units will be collected by the implementing agencies wherever applicable.
iv. The implementing agency will submit the fund utilization certificate along with the detailed report about the component.

Contact and website

http://www.msme.gov.in/

Ministry of MSME

Technology and Quality Upgradation

Description

Scope

Energy efficiency workshops will be conducted in MSME clusters. The awareness programme will normally be of one day duration with the participation of at least 30 MSMEs.

Objectives of the scheme The first objective of the present Scheme is to sensitize the manufacturing MSME sector in India to the use of energy efficient technologies and manufacturing processes so as to reduce cost of production and the emissions of GHGs by providing EET equipments.

The second objective of the scheme is to encourage the MSMEs to acquire product certification/licences from National/International bodies and adopt other technologies mandated as per the global standards. Further, creating awareness among the MSMEs within and around the identified Clusters about Market Transformation of Energy Efficiency, Carbon Credit Trading, etc. Increased adoption of National /International Product Certification standards by the MSME sector to en-

hance profitability of the implementing MSMEs by reducing energy costs and also through possible income from carbon credits.

Nature of assistance

Funding support for organizing training and awareness activities on energy efficiency. Under the present Activity, MSMEs will be assisted in implementation of the projects through loans from SIDBI /banks/financial institutions for which subsidy upto 25% of the cost of the project will be provided. Further, to provide financial assistance to MSMEs in obtaining product certification to National and International standards, MSME manufacturing units will be provided subsidy to the extent of 75% of the actual expenditure, towards licensing of product to National/ International Standards.

Who can apply

Expert organizations like PCRA, BEE,TERI, IITs, NITs etc. or State Govt. agencies like MITCON, GEDA etc., and the autonomous bodies of Central/State Govt are eligible to apply for funding support.

How to apply

Way forward For continuation of TEQUP scheme in the 12th Plan, file is under submission for approval of Hon'ble Minister (MSME).

Contact and website

http://www.msme.gov.in/

Ministry of MSME

Scheme for Incubation

Description

Scope

Host Institutions (HI) are exploring the new innovative ideas from the Incubatee of various sectors that may be existing and prospective entrepreneurs. Even the students from the various streams are also participating in nurturing their new ideas through the Host Institutions as a part of their studies and carrier building.
Objectives

- To promote emerging technological and knowledge based innovative ventures that seek the nurturing of ideas from professionals.
- To promote and support untapped creativity of individual innovators and also to assist Individual innovators to become technology based entrepreneurs.
- To promote networking and forging of linkages with other constituents of the innovation chain for commercialization of their developments.

Nature of assistance

Under this scheme Government of India is providing opportunity to the innovators in developing and nurturing their new innovative ideas for the production of new innovative products which can be sent in to the market for commercialization. This Ministry has been implementing this scheme since 2008 under the approved guidelines which permits the Govt. GoI financial assistance of 75 % to 85 % of the project cost up to the maximum of 8.00 Lakh. This fund is routed through the Business Incubator (BIs).

Who can apply

IITs, NITs, Engineering Colleges approved by AICTE, Central / State Universities recognized by UGC and other recognized R & D and / or Technical Institutes / Centres, Development Institutes of DIP&P in the field of Paper, Rubber, Machines Tools, etc. (also known as host institutions)

How to apply

http://www.msme.gov.in/

Contact and website

http://www.msme.gov.in/

Ministry of MSME

Scheme Zero Defect Zero Effect

Description

Scope

The scheme is an extensive drive to create proper awareness in MSMEs about ZED manufacturing and motivate them for assessment of their enterprise for ZED and support them. After ZED assessment, MSMEs can reduce wastages substantially, increase productivity, expand their market as IOPs, become vendors to CPSUs, have more IPRs, develop new products and processes etc.

Nature of assistance

Assessment & Rating/Re-rating/Gap analysis/Hand holding

a. Assessment/Rating by empanelled Credit Rating Agencies/other Agencies valid for 4 years (Ministry of MSME will subsidize* 80% of Micro, 60% of Small, 50% of Medium Enterprises' Certification Fee: average 70% of Fee) (Assessment Fee Rs. 10,000/-& Rs 80,000/- per enterprise respectively for Desktop Assessment and ZED rating Complete Assessment).
b. Additional rating for Defence angle i.e. Defence ZED by empanelled Credit Rating Agencies/other Agencies valid for 4 years (Ministry of MSME will subsidize* 80% of Micro, 60% of Small, 50% of Medium Enterprises' Certification Fee: aver-

age 70% of Fee) (Assessment Fee Rs. 40,000/- per enterprise.)

c. Gap Analysis, Handholding, Consultancy for improving rating of MSMEs by Consultants through QCI/NPC, Field formations of O/o DC-MSME viz. MSME-DI, MSME-TC including its autonomous bodies, BEE etc. (Ministry of MSME will subsidize* 80% of Micro, 60% of Small, 50% of Medium Enterprises' Consultancy charges: average 70% of Fee) (Hand holding charges Rs. 1.9 Lakh per enterprise whereas in case of MSMEs owned by SC/ST entrepreneurs additional support of Rs 10,000/- will be provided.)
d. Re-Assessment/Re-Rating by Credit Rating Agencies & Other Agencies (Ministry of MSME will subsidize* 80% of Micro, 60% of Small, 50% of Medium Enterprises' Certification Fee: average 70% of Fee) (Assessment Fee Rs. 40000/- per enterprise.)

Who can apply

IITs, NITs, Engineering Colleges approved by AICTE, Central / State Universities recognized by UGC and other recognized R & D and / or Technical Institutes / Centres, Development Institutes of DIP&P in the field of Paper, Rubber, Machines Tools, etc. (also known as host institutions)

How to apply

As per the application Annexure-3 in the scheme guidelines at Download The file (bytes) apply to NMIU/Concerned MSME-DIs for participating under the scheme for availing the benefits. MSMEs may register free of cost.

Contact and website

Shri Sanjeev Chawla,
Director,
Office of Development Commissioner (MSME),
Room No.720, 7th Floor, Nirman Bhawan,
Maulana Azad Road, New Delhi-110108
Phone No.011-23061178.

Ministry of MSME

Scheme Infrastructure Development Programme - Cluster Development Programme

Description

Scope

As a key strategy for enhancing the productivity and competitiveness as well as capacity building of Micro and Small Enterprises (MSEs) and their collectives in the country. A cluster is a group of enterprises located within an identifiable and as far as practicable, contiguous area and producing same/similar products/services. The essential characteristics of enterprises in a cluster are (a) Similarity or complementarity in the methods of production, quality control and testing, energy

consumption, pollution control, etc (b) Similar level of technology and marketing strategies/practices (c) Channels for communication among the members of the cluster (d) Common challenges and opportunities.

Objectives

i. To support the sustainability and growth of MSEs by addressing common issues such as improvement of technology, skills and quality, market access, access to capital, etc.
ii. To build capacity of MSEs for common supportive action through formation of self help groups, consortia, upgradation of associations, etc.
iii. To create/upgrade infrastructural facilities in the new/existing industrial areas/ clusters of MSEs.
iv. To set up common facility centres (for testing, training centre, raw material depot, effluent treatment, complementing production processes, etc).

Strategy and Approach

The capacity building of associations, setting up of special purpose vehicles (SPVs), consortia, etc. which are integral part of the scheme would enable the MSEs to leverage their resources and also to have better access to public resources, linkages to credit and enhance their marketing competitiveness.

Soft InterventionsThis will lead to creation of general awareness, counseling, motivation and trust building, exposure visits, market development including exports, participation in seminars, workshops and training programmes on technology upgradation, etc.

Common Facility Centre (CFC)

This will lead to creation of tangible "assets" as Common Facility Centres (CFCs) like Common Production/Processing Centre (for balancing/correcting/improving production line that cannot be undertaken by individual units), Design Centres, Testing Facilities, Training Centre, R&D Centres, Effluent Treatment Plant, Marketing Display/Selling Centre, Common Logistics Centre, Common Raw Material Bank/Sales Depot, etc.

Infrastructure Development Centre (ID)This will lead to creation of infrastructural facilities like power distribution network, water, telecommunication, drainage and pollution control facilities, roads, banks, raw materials, storage and marketing outlets, common service facilities and technological backup services for MSEs in the new/ existing industrial estates/areas.

Nature of assistance

Financial assistance under the schemeThe financial assistances for various interventions are:- (i) Preparation of Diagnostic Study Report with Government of India (GoI) grant of maximum Rs 2.50 lakh. For the field organizations (MSME-DIs) of the Ministry of MSME, this financial support will be Rs 1.00 lakh.(ii) Soft Interventions with GoI grant of 75% of the sanctioned amount of the maximum project cost of Rs 25.00 lakh per cluster. For NE & Hill States, Clusters with more than 50% (a) micro/ village (b) women owned (c) SC/ST units, the GoI grant will be 90%. (iii)

Detailed Project Report (DPR) with GoI grant of maximum Rs 5.00 lakh for preparation of a technical feasibility and viability project report.(iv) Hard Interventions in the form of tangible assets like Common Facility Centre having machinery and equipment for critical processes, research and development, testing, etc. with GoI grant upto 70% of the cost of project of maximum Rs 15.00 crore. For NE & Hill States, Clusters with more than 50% (a) micro/ village (b) women owned (c) SC/ ST units, the GoI grant will be 90%. (v) Infrastructure Development with GoI grant upto 60% of the cost of project of Rs 10.00 crore, excluding cost of land. GoI grant will be 80% for projects in NE & Hill States, industrial areas/ estates with more than 50% (a) micro (b) women owned (c) SC/ST units.

Who can apply

State Govt./MSME-DIs and Autonomous Bodies

How to apply

As per the application Annexure-3 in the scheme guidelines at Download The file (bytes) apply to NMIU/Concerned MSME-DIs for participating under the scheme for availing the benefits. MSMEs may register free of cost.

Contact and website

Shri Sanjeev Chawla,
Director,
Office of Development Commissioner (MSME),
Room No.720, 7th Floor, Nirman Bhawan,
Maulana Azad Road,New Delhi-110108
Phone No.011-23061178.

Department of Heavy Industries

Scheme for Advanced Centre of Excellence under the Scheme for Global Competitiveness of Capital Goods Sector

Description

To strengthen , incentivise and motivate the application oriented research and development activities bringing the capital goods sector closer to global level by creating Centres of Excellence for technology development. The applying institute needs to sign MoU with implementing agency and DHI.

Some routes that can be considered under the scheme are as follows:
In consortium with users/industry, other stakeholders and knowledge providers, Sponsored projects in India and Abroad (part),Contractual R&D and Technology Deployment,Purchase or licensing of IPR/technology for further development/ indigenization,Hiring or contracting experts from industry in the Centres at the nstitutes,Sponsored scholars/Students projects, Technology problem solving for SMEs, Providing Technical Consultancy to a unit or group of Units, International or bilateral technology development,Other methods considered by the Joint Steering Mechanisms.

Nature of assistance

One time grant in aid for (not equity) not exceeding 80% of the project cost subject to maximum of 100 crore for each centre of excellence proposed to be set up at the institute. Balance is required to be invested the industry and other stakeholders. Finances will be released linked to milestones as per the MoU. No government grant for land and building

Who can apply

Academia and R&D Institutions in collaboration with Industry consortium including central and state PSUs.

How to apply

http://dhi.nic.in/

Contact and website

Shri. N Sivanand
Joint SecretaryDepartment of Heavy Industry,
Ministry of Heavy Industry & Public Enterprises
Udyog Bhavan, New Delhi

Department of Heavy Industries

Scheme for Integrated Industrial Infrastructure Facilities for Machine Tool Industry and Sub Sectors under the Scheme for Global Competitiveness of Capital Goods Sector

Description

The objective of the scheme is to provide an ecosystem for manufacturing of Machine Tools in Industrial Cluster mode in order to cut down the logistic cost substantially and therefore making the sector cost effective having enhanced export capability and favourable for more investment.

Nature of assistance

One time grant in aid (not equity) not exceeding 80% of the project cost subject to maximum Rs 125 crore. Balance will be required to be invested by the SPV. Finances will be released linked to milestones as per the MOU.

Who can apply

Local Industries, Industry Associations, Financial Institutions, Central or State Governments, R&D Institutions, Central / State PSUs etc. SPC will need to be formed for implementation.

How to apply

http://dhi.nic.in/

Contact and website

Shri. N Sivanand
Joint SecretaryDepartment of Heavy Industry,
Ministry of Heavy Industry & Public Enterprises
Udyog Bhavan, New Delhi

Department of Heavy Industries

Scheme for Common Engineering Facility Centres (CEFC) for Sub Sectors of Capital Goods under the Scheme for Global Competitiveness of Capital Goods Sector

Description

CEFCs may be set by local industry and the industry association so that manufacturing services, hitherto not available, will be accessible to capital goods in the catchment area. The eligible Common engineering facilities include Design, process, product development, re-engineering, RPD, 3D Printing facilities, industrial exhibitions cum product display centres, IT application and development centres, common machining faclities, training and skill infrastructure etc

Nature of assistance

Central assistance will be by way of one time grant in aid d (not equity) not exceeding 80% of the project cost subject to maximum Rs 48.96 crore for 2 CEFCs (Rs 30 Crores max. in one case). Balance will be required to be invested by the SPV. No government assistance for land and building

Who can apply

Local Industries, Industry Associations, Financial Institutions, Central or State Governments, R&D Institutions, Central / State PSUs etc. SPC will need to be formed for implementation.

How to apply

http://dhi.nic.in/

Contact and website

Shri. N Sivanand
Joint SecretaryDepartment of Heavy Industry,
Ministry of Heavy Industry & Public Enterprises
Udyog Bhavan, New Delhi

Department of Heavy Industries

Scheme for Technology Acquisition Fund Programme (TAFP) under the Scheme for Global Competitiveness of Capital Goods Sector

Description

TAFP provides for exploring opportunities for Accelerated technology upgradation through Acquiring Technologies for specific projects and Activities. The Illustrative list of eligible activities are : Technology/ Energy/ Green/ Efficiency/ Productivity/ Quality Audit, Evaluation / Assessment Studies and preparatory activities with objective of selecting the right technology for acquisition, Outright purchase of Technology / Know-how from Technology Owners, IPR, Patent fees, Design fees, Engg fees, Product Technology Evaluation & certification payments, Royalty , know how payment and other payments to Technology Owners/ licensors towards technology acquisition, Upgradation of production / testing facilities/ R & D / technology development facilities, Purchase of hardware / software for process & product improvement and up gradation,Hiring/ training/ education of Manpower for process & product improvement and upgradation, Training of workers / operators for skill building in acquired technology, Membership/ contribution to Institutions providing Technical services, Contract research payments, Consortium technology development contributions to institutions, Project/ Technology development / Faculty / Scholar / employees sponsorship in institutions, Other expenditures related to R & D , Innovation, D & D, Technology Development, skill development and higher technical education; Setting up of Product or Technology Development Centres by Industry Associations / Clusters within Capital Goods Sector.

Nature of assistance

Government grant is limited to 25% of the cost of Technology Acquisition and maximum amount shall not exceed Rs.10 crore per technology; M/s. Global Innovation & Technology Alliance (GITA) have been engaged to promote, market and implement TAFP component of the CG Scheme;

Who can apply

Local Industries, Industry Associations, Financial Institutions, Central or State Governments, R&D Institutions, Central / State PSUs etc. SPC will need to be formed for implementation.

How to apply

Firms can apply online for funding under TAFP component at GITA's website: www.gita.org.in

Contact and website

www.gita.org.in

Ministry of New and Renewable Energy (MNRE)

Scheme for associating and supporting RD&D carried out by industry

Description

Scope

The Ministry has been supporting Research, Design & Development (RD&D) in new and renewable energy since 1982. Considering that the market would largely drive the renewable energy sector, a scheme has been evolved for associating and supporting RD&D carried out by industry. This scheme provides guidelines for project identification, formulation appraisal, approval and financial support. A Research, Design & Development Project Appraisal Committee (RDPAC) has been constituted under the chairmanship of Secretary, MNRE for the purpose of giving guidance to the overall direction of RD&D effort in new and renewable energy. This Committee also elicits RD&D proposals, appraises them, and recommends financial support wherever required.

Focus Areas

Research, design and development efforts should invariably lead to manufacture of complete systems, even if these efforts are required to be shared among different institutions. Thus, there would be a need for system integration broadly covering the following areas: -

- Alternate Fuels (hydrogen, bio & synthetic) to supplement and eventually substitute liquid hydrocarbons;
- Green Initiative for Future Transport (GIFT) based on Alternate Fuels for land, air & sea applications to supplement and eventually substitute fossil-fuel systems;
- Green Initiative for Power Generation (GIPS) based on Alternate Fuels for stationary & portable power generation applications to supplement and eventually substitute fossil-fuel systems;
- Standalone new and renewable energy products to provide cost-effective energy for cooking, lighting and motive power;
- Distributed new and renewable energy systems to provide cost-competitive energy supply options for cooking, lighting and motive power;
- New and renewable energy products for urban, industrial and commercial applications, including energy recovery from urban and industrial wastes and effluents; and
- MW scale grid interactive renewable electricity systems to contribute towards supplement and eventually substitute fossil-fuel based electricity generation.
- System Focus
- RD&D activities shall invariably lead to the manufacture of:
- Solar Thermal (High Temperature) power generation systems.
- Solar Thermal for Urban and Industrial Applications.
- Energy efficient buildings utilizing renewable energy concepts.
- MW scale SPV power generating systems.
- MW scale wind turbine electric generators for low wind regimes.
- Biomass integrated gasification combined cycle systems.
- Simulators for RE grid-interactive power stations.
- Alternate fuels - bio, synthetic and hydrogen systems.
- Hybrid systems.

- Geothermal and Tidal Energy systems.
- Energy intensive storage devices, including those for grid power.
- Any other identified area.

Nature of assistance

Industry Involvement

R&D projects may be taken up by Universities, research institutions, R&D laboratories and industry, individually or as a consortium. As far as possible, R&D projects should be taken with industry as end-users to ensure that they are involved right from the conception stage of the project. Such projects should clearly quantify outputs, that should be challenging and bench-marked to pre-identified aims.

A profit making industry registered with Department of Scientific & Industrial Research for in-house R&D may submit an R&D project in the prescribed form, to the Ministry for support. The industry is expected to share50% of the cost of the project and Ministry supports to the extent of remaining 50%.

A consortium of industry, academic institutions, research laboratory and R&D institution etc., may be formed to undertake a R&D project. Clear role and tasks of each member of the consortium will have to be clearly defined. Consortium members will also be required to share at least 50% of the cost of the project. MNRE funds will be released to the implementing institution in the consortium selected by consortium members. Implementing institution will be responsible for the entire expenditure and for other terms and conditions of the project.

An industry may join hands with the Ministry to entrust an R&D project to an R&D institution/ research laboratory or an academic institution. Funds in this case will be released to the concerned implementing institution which will also be responsible for the entire expenditure and other terms and conditions MNRE support up to 50% of the cost of the project will be available.

Financial assistance for RD&D projects that involve partnership with industry should normally be restricted to 50% of the project cost. However, any proposal from Universities, Government research institutions etc. Ministry may provide upto100% funding, depending on project priority.

In all the above three models, industry/institution contributing 50/50% of the cost will have the right on commercialization of the technical know-how.

Guidelines for IPR sharing is given in the R&D Policy order.

Who can apply

Universities, research institutions, R&D laboratories and industry, individually or as a consortium.

How to apply

http://www.mnre.gov.in/file-manager/rd-scheme/om-rnd18102010.pdf

Contact and website

Dr. B.S. Negi
HRD & Training including ITEC Innovation Centre,
R&D Coordination, Lab Policy, Standards & Quality Control.
Ministry of New and Renewable Energy
New Delhi
Email: negi@hub.nic.in

Ministry of Steel

Scheme for Promoting R&D with financial assistance from Steel Development Fund

Description

Under the Scheme financial assistance from SDF is provided to R&D projects pursued by reputed Research Laboratories, Academic Institutions & Industries. There is a two tier structure for evaluation of R&D proposals under this scheme. An Evaluation Group (EG) comprising Ministry of Steel. Department of Science & Technology, Department of Scientific and Industrial Research and Defence Research and Development Organisation evaluates the R&D proposals and its recommendations are placed before the Empowered Committee for consideration & approval. There are also independent Empowered Board (EB) of experts for each project for review and monitoring the progress. Technical Division (TD) of the Ministry of Steel works as the Secretariat of the Empowered Committee to scrutinize the research proposals, obtain views of independent experts and monitor the progress of the projects for reporting to the Empowered Committee.

Activities Supported

- Development of innovative/ path breaking technologies for utilization of Indian iron ore fines/slimes and non-coking coal.
- To pursue R&D projects to address Climate Change issues in line with other countries.
- Beneficiation/ up gradation of low grade iron ore, coal etc. and agglomeration.
- Development of commercially viable technology for utilization of steel plant and mine wastes including LD/EAF Slag.
- Improvement in quality of steel produced through the induction furnace.
- Development of indigenous technologies for new processes and improved products viz. Ultra High Strength Steel, High Strength High Formable steel, CGRO Steel Sheets, emerging coated products etc.
- Achieving global benchmarks in Productivity, Quality, Raw material consumption.
- Development of Low carbon technology.
- Development of innovative technology for effective recovery of waste heat in different iron & steel making processes.
- Development of innovative solutions for addressing the challenges faced by the iron & steel industry.

Nature of assistance

R&D work in Lab Scale/ Bench Scale and scale-up to Pilot Scale/ Demonstration Plants will be supported.

In case of Industrial/ Commercial organisations pursuing R&D projects with Plan Fund, financial assistance of upto 50% of the total cost is permissible.

In case of Academic Institutions & National/ Regional Research Laboratories, financial assistance of upto 100% is permissible. However, preference will be given to R&D project having tie-up with user industry.

For Pilot/ Demonstration Scale R&D projects, financial contribution from Plan Fund will be limited upto 50% & the balance to be met by the industrial partner.

Who can apply

Proposal can be submitted by a Public Entity or Private Entity;
Industry/ Institutions should have DSIR recognized in-house R&D laboratory;
Joint Proposals with other laboratories/ institutions/ industry are desirable for support.

Contact and website

Shri. Sunil Barthwal,
Joint Secretary, Ministry of Steel,
Udyog Bhawan, Maulana Azad Road,
New Delhi – 110107

Ministry of Steel

Scheme for Promotion of R&D in Iron and Steel Sector

Description

The broad areas to be pursued under this scheme are:

- Development of innovative/ path breaking technologies for utilization of iron ore fines and non-coking coal.
- Beneficiation of raw materials like iron ore, coal etc. and agglomeration.
- Improvement in quality of steel produced through the induction furnace.
- Development of technology for CRGO Electrical Steel Sheets and other value added innovative steel products
- To pursue R&D on any other subject of national importance concerning the Iron & Steel sector

Nature of assistance

R&D work in Lab Scale/ Bench Scale and scale-up to Pilot Scale/ Demonstration Plants will be supported. In case of Industrial/ Commercial organisations pursuing R&D projects with Plan Fund, financial assistance of upto 50% of the total cost is permissible.

In case of Academic Institutions & National/ Regional Research Laboratories, financial assistance of upto 100% is permissible. However, preference will be given to R&D project having tie-up with user industry.

For Pilot/ Demonstration Scale R&D projects, financial contribution from Plan

Fund will be limited upto 50% & the balance to be met by the industrial partner.

Who can apply

- Proposal can be submitted by a Public Entity or Private Entity.
- Industry/ Institutions should have DSIR recognized in-house R&D laboratory.
- Joint Proposals with other laboratories/ institutions/ industry are desirable for support.

How to apply

http://steel.gov.in/

Contact and website

http://steel.gov.in/

Ministry of Food Processing Industries

Scheme for Setting Up/ Up-gradation of Quality Control/ Food Testing Laboratory

Description

The Scheme for setting up/up-gradation of food testing laboratories would benefit all stake holders including domestic industry (Domestic and exports), entrepreneurs, small and medium enterprises, food standards setting bodies and Government.

The other objectives of the scheme are:

- To analyse the samples received from food processing industries and others stake holders.
- To reduce the time of analysis of samples by reducing transportation time of samples.
- To ensure compliance of standards in case of exports as well as imports.
- To establish a surveillance system for monitoring the quality and composition of food

Nature of assistance

Central/State Government and its organizations/Universities(including deemed universities) are eligible for grant-in-aid of entire cost of laboratory equipments required for labs and 25%of the cost of technical civil works to house the equipments and furniture and the fixtures associated with the equipments for general areas and 33% for difficult areas (J&K, Himachal Pradesh, Uttaranchal, Sikkim, North-Eastern States, Andaman & Nicobar Islands, Lakshadweep, Integrated Tribal Development Projects (ITDP) area).

All other implementing agencies/private sector organizations are eligible for grant-in-aid of 50% of cost of laboratory equipments and 25% of the cost of technical civil works to house the equipments and furniture and fixtures associated with the equipment for general areas and 70% of cost of lab equipment and 33% of technical civil works for difficult areas.

This includes 5% of the grant amount as professional fees for Programme Management Agency (PMA) engaged for providing advisory and implementation services to Food testing/Quality Control Laboratories and follow up actions.

When the Ministry establishes/sponsors such food testing laboratories, there would be no ceiling to financial assistance and the amount to be approved is decided on case to case basis with the approval of Competent Authority.

The foods testing facilities so created should be accessible to public and made available to the Food Processing Units for testing their products in and around the area at specified rates.

Who can apply

Central/State Government and its organizations /universities (including Government owned deemed universities)

How to apply

Implementation of the scheme has been transferred to Indian Council of Agricultural Research (ICAR), New Delhi w.e.f.01/04/2012.Interested and eligible organizations/institutions may submit their application to Nodal Officer of ICAR.

Detailed project report clearly indicating the total project cost(item wise and cost wise break up), means of finance to meet the project cost, recurring expenditure, information on availability of land and building, qualified manpower, implementation schedule, list of lab equipments (their cost, purpose/parameters being tested), Technical Civil Works and Furniture & Fixtures etc. Sanction letter of term loan from bank/financial institutions, if any Certificate of incorporation/registration of the organization, Memorandum and Articles of so Association and By-laws of the Society (if applicable)/partnership deed etc., bio-data/background of the office bearers/promoters of the organization. Annual reports and Audited Statement of Accounts of last two years, in case of up-gradation proposals /cases. Blue Print of the laboratory building Plan. Notarized English version of land document (in case it is in any of the region all languages). Item wise and cost wise details of Technical civil works envisaged duly certified by Chartered Engineer (Civil). Item wise and cost wise details of lab equipments envisaged duly supported by quotations. In case of up-gradation of lab, list of existing lab equipments with complete details are also to be furnished. An affidavit duly executed on non-judicial stamp paper of Rs.100/- or more duly notarized by Notary Public Affirming:

- That organisation's sister concern(s)/Inter Connected Company/Group Company as well as the applicant company itself has not obtained any financial assistance for a food processing project in the past from MOFPI.
- That the organization has not obtained/applied for or will not obtain any grant/ subsidy from any Ministry/Department of Central Govt/ GOI organization/ agencies and State Govt for the same purpose/activity/same components.

Contact and website

Shri K. B. Subramanian
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Ministry of Food Processing Industry

Scheme for Implementation of HACCP/ ISO 22000, ISO 9000/ GHP/ GMP Etc

Description

HACCP, ISO Standards are necessary condition for improving the overall quality of food safety & hygiene in the country and also to increase India's share in global food trade. This component of quality assurance is intended to benefit stakeholders, including domestic industry,small and medium enterprises,exporters, importers of food products, food standards setting bodies and Government.

Objectives: To motivate the food processing industries for adoption of food safety and quality assurance mechanisms such as TQM including ISO 9000, ISO 22000, HACCP, GMP, GHP;
To prepare them to face global competition in post WTO Regime;
To enable adherence to stringent quality and hygiene norms;
To enhance product acceptance by overseas buyers;
To keep Indian industry technologically abreast of international best practices.

Nature of assistance

Under this component, assistance in the form of re-imbursement of expenditure is provided to Central/ State Government Organizations, IITs and Universities and private sector units to the extent of 50%of the cost of consultant fee, fee charged by Certification Agency, plant and machinery, technical civil works and other expenditure towards implementation of Total Quality Management System including ISO 9000, ISO 22000, HACCP, GMP & GHP in general areas subject to maximum limit of Rs. 17 lakh and 75% in difficult areas subject to a maximum of Rs. 22 lakh.

Who can apply

Central/ State Govt.Organisations, IITs, Universities and Private Sector are eligible for reimbursement of expenditure towards implementation of Total Quality Management; The scheme provides one time reimbursement only against an Industrial Entrepreneur Memoranda (IEM)/ Permanent SSI Registration/ Industrial License. Whichever is applicable; The application should not have obtained/applied for grant/subsidy from any Ministry/Department of Central Govt/GOI organization/agencies and State Govt for purpose of adoption of Total Quality Management System; Application is to be submitted in the prescribed format along with documents required; Expenditure incurred on the project after in-principle approval of the proposal by the Ministry for Total Quality Management System are considered for re-imbursement.

How to apply

http://mofpi.nic.in/Schemes/how-apply-documents-required

Contact and website

Shri K. B. Subramanian
DirectorMinistry of Food Processing Industries,
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Tel:011-26492351
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Department of Commerce (DOC)

MAI Scheme Market Access Initiative

Description

a. Selected exporters/Export Promotion Councils (EPCs)/Trade Promotion Organizations/Industrial Clusters would be Assisted in modernizing and upgrading the identified products as per the needs of the specific markets. Technical Experts /Consultants/ Designers may also be engaged for this purpose. This may be considered as a separate proposal or as a component of the approved project under the scheme for the assistance. The EPCs concerned etc. would act as coordinator.
b. Capacity building for up-gradation of quality. Funds will be provided under this provision to National Level Institutions and EPCs to organize training programmes for the skill improvement of the exporters for quality up-gradation, reduction in rejection, product improvement etc.
c. Developing Common facility Centres, Design Centres, packaging, etc: Funds will be provided under this provision to Industrial Clusters, EPCs, National Level Institutions like NID, NIFT etc. for necessary hardware and software needed to setup Common facility Centres, Design Centres, packaging, etc. Funds will also be provided for engaging experts, designers for skill development/product development in these centres.

Nature of assistance

a. The Level of Assistance : 65% of the total approved cost subject to a ceiling of Rs.100 lakhs for each product, borne by the Scheme and the balance 35% by the concerned EPCs/Exporters / TPOs.
b. Level of Assistance : Assistance under this provision would be provided upto 66% of the approved expenditure subject to a ceiling of Rs.25 lakhs per organization per annum.
c. Level of Assistance : Assistance under the provision would be provided upto 65% of the approved expenditure subject to a ceiling of Rs.50 lakhs per such centre. The support for hiring experts/designers/consultants shall not exceed Rs.10 lakhs in each case.

Who can apply

a. Selected exporters/Export Promotion Councils (EPCs)/Trade Promotion Organizations/Industrial Clusters
b. National Level Institutions and EPCs
c. Industrial Clusters, EPCs, National Level Institutions like NID, NIFT etc.

How to apply

Commerce.nic.in

Contact and website

E&MDA Division, Dept. of Commerce, will co-ordinate the work related to the Scheme and liaise with Eligible Agencies for release and utilisation of the sanctioned funds.

Department of Industrial Policy & Promotion (DIPP)

Project Based Support to Autonomous Institutions

Description

The Project based support under the scheme has been given to Autonomous Institutions like Quality Council of India (QCI), Central Pulp and Paper Research Institute (CPPRI), National Council for Cement and Building Materials (NCCBM), Central
Manufacturing Technology Institute (CMTI), National Institute of Design (NID) and National Productivity Council (NPC). The objective of the scheme is to strengthen the Autonomous Bodies to enable them to provide technical support for enhancing competitiveness of the industry.
The Autonomous Institutions shall be engaged in:

- Awareness programmes, quality conclaves and seminars etc through print media;
- Design development, applied research, training, design consultancy services and outreach services;
- Productivity measurement & development of productivity and energy efficient measures;
- Industry specific support services.

Nature of assistance

The funding pattern of the project would be Grant-in-Aid. The mechanism towards the release of funds would be against furnishing of Utilization Certificate and fulfilling of prescribed norms under guidelines. Through approved Government procedure, Grant- in- aid is given to Autonomous Institutions for undertaking projects and the progress is reviewed periodically by the Ministry.

Who can apply

Autonomous Institutions will be the Implementing Agency.

How to apply

http://dipp.nic.in/

Contact and website

http://dipp.nic.in/

For more information, please contact

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CIN: U51900WB1955NPL022644