SUPPORTING INNOVATIONS

Ministry of MSME Initiatives
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Achievements of the
Ministry of Micro, Small & Medium Enterprises

Udyog Aadhaar Memorandum (UAM)

Udyog Aadhaar Memorandum (UAM) scheme was notified in September 2015, under section 8 of the MSME Development Act 2006. This is a path breaking step to promote ease-of-doing-business for MSMEs in India. UAM replaces the cumbersome filing of Entrepreneurs’ Memorandum (EM part-I & II) with the respective States/UTs. MSME entrepreneurs just need to file online, a simple one-page UAM on http://udyogaadhaar.gov.in to instantly get a unique Udyog Aadhaar Number (UAN). The information sought is on self-certification basis and no supporting documents are required at the time of online filing of UAM.

The UAM has emerged from the vision of Hon'ble Prime Minister of India shared with the Nation through “Mann Ki Baat” telecast on 03-10-2014 and the recommendations for Universalization of Registration in the Report of the Kamath Committee on Financial Architecture of MSME sector. Within a short time of six months, more than 3,58,933 UAMs have been filed in the country.

Public Procurement Policy

Procurement data from CPSUs was collected, complied and subsequent communication was made. The procurement of goods and services worth Rs. 1,25,491.7 crore has been made by CPSUs from MSMEs in year 2014-15. 38 CPSUs has made more than 20% procurement from MSEs against the stipulated target of 20%. For effective implementation of the Public Procurement Policy and particularly the mandatory provision of 20 per cent procurement from 1st April 2015, “Public Procurement Facilitation Cell” has been established at MSME-DIs.

For developing MSE vendors and facilitating effective linkages between Govt. procuring agencies and MSE suppliers, 25 national and 143 statelevel Vendor Development Programmes have been organized by the field offices of DC-MSME viz. MSME-Development Institutes in the year 2015-16 (upto 29th February 2016).

Framework for Revival and Rehabilitation of MSMEs

A Framework for Revival and Rehabilitation of MSMEs was notified in May 2015 under Section 9 of the Micro, Small and Medium Enterprises Development Act, 2006. It provides for identification of incipient stress in the MSMEs. All the banks have to constitute a Committee for Distressed MSME enterprises at zonal or district level. The Committee has to prepare a Corrective Action Plan (CAP) for the MSME unit that approaches it.
Tool Rooms & Technology Centers for MSMEs

Ministry of Micro, Small and Medium Enterprises, Government of India have established 18 Technology Centres (TCs) earlier known as Tool Rooms (10 Nos) and Technology Development Centres (8 Nos) spread across the country. The Technology Centres’ primary focus is to support industries particularly MSMEs in the country through:

- Access to advanced manufacturing technologies
- Skilling manpower by offering opportunities for technical skill development to the youth at varying levels ranging from school dropouts to graduate engineers and,
- Providing technical and business advisory support to MSME entrepreneurs

1,58,870 persons have been trained in short term (period upto 6 months), medium term (6-12 months) and long term (more than one year) upto 29th February, 2016. The courses are designed for school dropouts to M.Tech. level. Technology Centers have assisted 32,445 MSMEs for catering to their need of skilled manpower, precision & highly sophisticated components, tools & dies.

Under Technology Centre System Programme (TCSP), 15 New Technology Centres (Tool Rooms) would be set up and existing Tool Rooms would be upgraded with the support of World Bank. The expanded and upgraded network would be supported by (a) Manufacturing Technology Partners to strengthen technical capabilities of MSMEs (b) Clusters Network Managers to establish linkages amongst all key stakeholders of entire ecosystem and (c) National portal for creating a vibrant and interactive platform to meet various needs of MSMEs.

The foundation stone for two new Technology Centres at Bhiwadi(Rajasthan) and Baddi (Himachal Pradesh) were laid by the Minister, MSME along with the Chief Ministers of Rajasthan & Himachal Pradesh on 12th February 2016 and 20th February 2016, respectively.

Prime Minister’s Employment Generation Programme (PMEGP)

PMEGP is the flagship programme of the Government offering credit linked subsidy to establish new enterprises for generating continuous and sustainable employment opportunities in rural and urban areas of the country. The scheme is implemented by KVIC. To ensure greater coverage of micro enterprises and to ensure inclusive growth, target of 75 projects per district has been fixed for PMEGP. Loan for project costing up to Rs. 25 lakh with subsidy ranging from 15 to 35% is provided to entrepreneurs under this scheme. Under PMEGP, 32,301 enterprises have been set up and employment opportunity for 2,33,371 youth have been created upto 29.02.2016 in the current financial year.
Khadi and Village Industries Commission (KVIC) have executed a MoU with Monitoring Cell of RSETI (Rural Self Employment Training Institutes) to impart EDP training through RSETI/RUDSETI under PMEGP.

**A Scheme for Promotion of Innovation, Rural Industry and Entrepreneurship (ASPIRE)**

ASPIRE was launched on 16 March 2015 with an objective to set up a network of technology centres and incubation centres to accelerate entrepreneurship and to promote start-ups for innovation and entrepreneurship in rural and agriculture based industry. The planned outcomes of ASPIRE are setting up Technology Business Incubators (TBI), Livelihood Business Incubators (LBI) and creation of a Fund of Funds with SIDBI.1st LBI was set up in April 2015 under ASPIRE within a month of launching the scheme in Deoriain Uttar Pradesh. The first batch of 200 incubates has completed the training and, out of them, 19 are employed, 31 self-employed and 33 have gone for further studies. 34 proposals have been submitted to KVIC for projects under PMEGP. The second LBI has been inaugurated in Rajkot on 18th December 2015. As on 29th February 2016, 195 incubates are undergoing training on 8 different trades in the centre.

22 LBIs and 2 TBIs have been approved till December 2015 and within the first year of the scheme, 12 States including NER have been covered. Ministry has released an amount of Rs.70.91 Crore as on 29th February 2016.

**Scheme of Fund for Regeneration of Traditional Industries (SFURTI)**

The objective of the SFURTI is to organize the traditional industries and artisans into clusters to make them competitive and provide support for their long term sustainability by way of enhancing the marketability of products, improving the skills of artisans, making provision for common facilities and strengthening the cluster governance systems. The target under SFURTI was to develop 71 clusters during 12th Plan period. All 71 clusters have been assigned in-principle approval, out of which, 32 have been finally approved as on 29th February 2016. An amount of Rs.29.71 crore has already been released to the Nodal Agencies involved up to 29th February 2016.

**Coir Board**

Activities pertaining to the Coir Board revolve around planning, execution and development of the entire coir sector. The total fibre production in the country has reached 5,02,715 Metric Tone till 31.01.2016 against last year’s 5,42,000 MTs in 2014-15 for the entire year. Towards enhancement of the coir production and value addition in the country, the Board is embarking upon several promotional measures with more focus on the non-traditional areas where coconut cultivation and fibre potential is available. The interventions towards setting up of new coir units
are taken up mainly through the following plan programmes such as Coir UdyamiYojana. CUY is a credit linked subsidy scheme wherein projects with costs up to Rs. 10 lakhs are assisted to be set up with funding pattern of 40% Central subsidy, 55% term loan from financial institutions and 5 % beneficiary contribution. 431 applications have been sanctioned by the Banks till 31.01.2016. Skilled manpower development through training and other activities is one of the major programmes of the Board. National Coir Training & Design Centre at Kalavoor, Alleppey in Kerala conducts long term and short term training programmes.

Under Coir VikasYojana, 954 women workers were trained in spinning of coir yarn and manufacture of value added products. Besides, 11 Awareness programmes, 10 EDP’s, two Exposure tours, one seminar, and 10 Workshops were organized in major coir producing centres during this month. Also financial assistance to 17 Nos. were distributed among Tamil Nadu region in February 2016.

The Board facilitated participation of Indian Coir Geotextile sector by setting up a Coir Pavilion in the Annual Conference and Expo of International Erosion Control Association (EC16) held at San Antonio, Texas, USA during 16-19 February, 2016. 11 entrepreneurs/exporters from Indian coir geotextile sector participated through Coir Pavilion. The response was very encouraging and the participants were generated a lot of trade enquiries for coir geotextile.

Mahatma Gandhi Institute for Rural Industrialization (MGIRI)

Mahatma Gandhi Institute for Rural Industrialization (MGIRI), earlier known as National Institute for Rural Industrialization (NIRI), is an autonomous institution located in Wardha, Maharashtra. It aims to accelerate the process of rural industrialization by providing science and technology support. MGIRI is involved in development of many modern equipment and tools like low cost plastic drum type blunger machine, smaller capacity groundnut decorticating machine etc. in the month of February 2016. 31200 delegates from academia and industry attended one day national symposium organized at Nagpur on 5.1.2016 on 'Natural Cosmetics – Innovation & trend' in collaboration with NikalasMahilaMahavidyalay, Nagpur. Organized 'Orientation workshop on medicinal and aromatic plants, herbal and Ayurvedic products' for 40 officers of KVIC during 18-22 Jan., 2016 at Nagpur.150 students from various textile and fashion design institutes of Nagpur, Chandrapur, Wardha participated in 'Khadi Design Competition-2016' organized on 19.1.2016. MGIRI participated in the Exhibition “KRISHI PRADARSHANI” at Sewagram Ashram, Sewagram, Dist.Wardha from 29-31 Jan., 2016.DD (RCI) and PSO (RCE) visited Gandhi Memorial Museum at Barrackpur, Kolkata, West Bengal on 23.1.2016 for a day for collaborative program on entrepreneurship training of MGIRI products. PSO(M&S) has participated in National E-Governance Conference held in Nagpur on 21-22 Jan. 2016. 2016 which was attended by all top level bureaucrats from Govt. of India.
PSO(M&S) presented a paper on “Case Study on Effective Use of ICT by Mahatma Gandhi Institute For Rural Industrialization” in 8th Global Communication Research Association’s International Conference on “Innovative Digital Applications on sustainable development” from 5-7 Jan, 2016 at UAS, Bangalore in which around 200 professionals from agri & allied sector, research scholars were present.

Khadi and Village Industries Commission (KVIC)

Khadi and Village Industries Commission (KVIC) has been persistently involved in holistic development of khadi and village industry sectors with focus on welfare of artisans by increasing wages and earnings, technology infusion to reduce drudgery and increase productivity, creation of a dedicated brand for khadi and village industry products by providing outlets for sale, exhibition and showcasing of different products of the sector. KVIC provides the platform to three lakh odd spinners and weavers to link their products to the market place and mainstreaming the products and better returns to the artisans. The most important schemes of KVIC is implementation of PMEGP, providing production incentive to khadi artisans through Market Development and Promotion Assistance (MPDA) and Interest Subsidy Eligibility Certificate (ISEC) to provide working capital to khadi institutions and artisans.

Hon'ble Prime Minister along with Hon'ble Defence Minister, Hon'ble Chief Minister of Andhra Pradesh visited KVIC stall at IFR Village on 6.2.2016. Hon'ble Prime Minister seen the live demo of Ponduru Khadi interacted with weavers of Ponduru Khadi and complimented them for their exquisite skill. Hon'ble Minister, MSME chaired the Meeting of North Region Conclave of MSME at Chandigarh on 19.2.2016. CEO, KVIC also attended meeting with CPEs to discuss implementation of Public Procurement Policy for MSME and meeting with industry associations of participatory States/UTs, i.e. Punjab, Haryana, Chandigarh, Himachal Pradesh, Uttarakhand, Delhi and J&K. Hon'ble Minister, MSME chaired the Meeting of North Region Conclave of MSME at Dimapur on 26.2.2016. In the meeting Hon'ble Minister announced sanctioning of Khadi Plaza to be set up by Nagal and Khadi and Village Industries Board. During the Conclave various issues concerning new initiatives of various developments of MoMSME, forthcoming Mega Events, and cooperation and coordination were discussed with participatory NER States. CEO, KVIC attended the meeting.
**Lean Manufacturing Competitiveness Scheme (LMCS)**

The scheme is upscaled with a total project cost of Rs. 240.94 cr. (GOI contribution of Rs. 204.94 cr. for 500 Mini Clusters.). Manufacturing interventions have been initiated in approximately 2200 units. A total of 595 (95 reserve)Mini Clusters have been identified & selected for lean intervention across the country in sectors such as Auto Components, General Engineering & Fabrication, Textile, Hosiery & Readymade Garments, Pharmaceuticals, Chemical & allied Products, White Goods, Food Processing, Leather and Footwear etc.

569 awareness programmes have been organized to spread the awareness about the lean concept. 6 national workshops have been organized at Delhi, Mumbai, Kolkata and Chennai. 447 lean manufacturing consultants have been empanelled with NMUs (National Monitoring and Implementing Units). 282 Mini Clusters/SPVs have been formed for lean manufacturing (LM) interventions.

**Credit Guarantee Trust Fund for Micro and Small Enterprises (CGTMSE)**

CGTMSE has been set up to strengthen credit delivery system and facilitate flow of credit to the MSE sector. The Credit Guarantee under CGTMSE seeks to reassure the lender that, in the event of a MSE unit, which availed collateral free credit facilities, fails to discharge its liabilities to the lender; the CGMSE would make good the loss incurred by the lender up to 85% of the credit facility. Credit guarantee coverage of Rs.17, 795.92 crore was provided to 4, 48,588 proposals of MSEs during the year 2015-16 (as on 29th February 2016) under CGTMSE.

**Credit Linked Capital Subsidy Scheme (CLCSS) for Technology Upgradation**

CLCSS aims at facilitating technology upgradation of Micro and Small Enterprises (MSEs) by providing 15% capital subsidy (limited to maximum Rs.15 lakhs) for purchase of plant & machinery. Maximum limit of eligible loan for calculation of subsidy under the scheme is Rs.100 lakhs. More than 1500 well established/improved technologies under 51 sub-sectors have been approved under the Scheme for availing the subsidy. Under credit linked capital subsidy scheme (CLCSS), during 2015-16 (up to February 2016), 3142 MSEs availed of subsidy amounting to Rs. 203.97 crore through nodal banks. At present there are 12 nodal Banks/Agencies approved under CLCSS.

**Performance and Credit Rating (PCR) Scheme for Micro and Small Enterprises**

The PCR scheme envisages to create awareness among micro and small enterprises about the strengths and weaknesses of their existing operations and to encourage them to obtain a credit rating from one of the established Rating Agencies empanelled under the scheme. The rating fee
payable by the micro and small enterprises is subsidized by the Government to the extent of 75% of the rating fee up to a maximum of Rs. 40000/-. During the current financial year (upto January 2016), 13,023 units have been rated under the scheme while in 2014-15, 23,373 units were rated.

**MSE-Cluster Development Programme:**

The Micro and Small Enterprises – Cluster Development Programme (MSE-CDP) is being implemented for holistic and integrated development of micro and small enterprises in clusters through soft interventions (such as capacity building, marketing development, export promotion, skill development, etc.), hard interventions (setting up of Common Facility Centres) and infrastructure upgradation (create/upgrade infrastructural facilities in the new/existing industrial areas/clusters of MSEs).

Under the MSE Cluster Development Programme, the achievements during the year 2015-16 (up to 29th February 2016) are 29 Diagnostic Studies, 16 Soft Interventions, 8 Common Facility Centres (CFCs) in various clusters and 7 Infrastructure Projects were approved. 4 Common Facility Centres and 3 Infrastructure Development Projects have been completed under MSE-CDP.

**Technology and Quality Up-gradation Support to MSMEs (TEQUP)**

Major achievements under Technology and Quality Up-gradation Support to MSMEs (TEQUP) achievements are: 161 MSMEs assisted for Energy Efficient Technology (EET), 85 Awareness programme conducted and Product Certification reimbursement done for 135 MSMEs. MoU with six Banks besides SIDBI, namely, SBI, BoB, SBJ, Canara Bank, PNB & BoB has been signed for wider outreach of the scheme. Rs. 9.98 crores (161 EET cases) have been disbursed this year, so far.

**Skill Gap Analysis**

Based upon District Industrial Profile of the districts, an extensive activity has been carried out by O/o DC-MSME to assess the skill requirements and possible source for providing skill upgradation/ training across the country (29 states, 7 U.T. & 676 Districts) in consultation with all stake holders. This exercise will help in achieving the ambitious target set by GoI for providing skill enhancement training to 30 crore youth by 2020 and make them employable.

**Other Schemes under NMCP**

- Under the Design Clinic Scheme for MSMEs, till date, 396 design awareness seminars have been organized in the clusters, 219 awareness programmes undertaken, 126 professional design projects have been completed and 89 Student Design Projects were completed from MSME units for design intervention.
• Under scheme of **Support for Entrepreneurial and managerial development of SMEs through Incubators**, 47 new Host Institutions / Business Incubators and 145 ideas have been approved.

**Employment Exchange for Industry**

Employment Exchange for Industries was launched on 15th June 2015 to facilitate match making between prospective job seeker and employer. More than 3.43 lakh job seekers have been registered on the portal as on 4th March 2016.

**Prabhat Kumar Committee on MSME Policy**

Government of India has initiated several schemes like Stand Up India, Digital India and Make in India which also impact the MSME sector. Similarly, several States have announced new policies and initiatives for MSMEs. Ministry of MSME had also prepared a draft consultation paper on MSME Policy which was put up on the website for seeking comments of the public. This consultation paper has received a large number of comments. In this backdrop, a One Man Committee under the chairmanship of Shri Prabhat Kumar, former Cabinet Secretary and former Governor, Jharkhand has been constituted to make appropriate recommendation for a national policy on MSME by June 30 2016. The Committee has already begun its deliberations and has held two meetings so far.

**National Institute of MSME(ni-msme), Hyderabad**

**Implementation of ATI Scheme**

National Institute of MSME (ni-msme) has organised 2,590 Entrepreneurship and Skill Development Training Programmes in which 76,415 youth were trained in various trades. During the period from May 2014 to February 2016, 86 Job Melas were conducted and 21,436 got wage employment and 10,562 started self employment.
Non-ATI Programmes

National Institute of MSME (ni-msme) organises various National Programmes including workshops and seminars on various facets of MSME that benefit executives from various departments of State and Central Governments, Institutes, Associations and NGOs concerned with the promotion and development of MSME Sector. The institute has organised 1,302 programmes and trained around 54,000 during the period from May 2014 to February 2016.

International Programmes

The institute organised 34 international programmes and trained around 745 professionals from 140 countries on various themes related to MSMEs during the period from May 2014 to February 2016, that includes Small Enterprise Promotion, Micro Finance, IPR, TQM, Innovative Strategies, SME Financing etc.

National Small Industries Corporation Ltd. (NSIC)

The National Small Industries Corporation Ltd. (NSIC), a Mini Ratna Company under the Ministry of MSME, is committed towards enhancing the competitiveness of Indian MSMEs so as to enable them to face the challenges ahead in view of global competition.

The overall business of the Corporation during the year 2014-15 increased to Rs.20,004 crore as compared to Rs.17,444 crore in the year 2013-14. In spite of economic slowdown, total business of the Corporation has reached to Rs.17,000 crore upto January 2016. In order to facilitate MSMEs in getting timely availability of the raw materials, NSIC supplied raw materials of 9,17,265 MT during the year 2014-15 as against 874266 MT in the previous year. In the current year upto January, 2016, 839300 MT materials has been supplied.

During the year 2014-15, total credit support of Rs. 6,125 crore was made to MSMEs as against Rs.5,186 crore in the previous year. In 2015-16 (upto January 2016), it has already extended credit support of Rs.6,010 crore.

NSIC is also engaged in entrepreneurship development by way of inculcating entrepreneurial skills among unemployed persons by imparting training through setting up Livelihood Business Incubation centres. During the year 2014-15, it has set up 14 such centres. It has imparted training through its technical centres and incubation centres in the areas of skill development, entrepreneurship development to 1,13,975 candidates in 2014-15 and 1,03,392 candidates in 2015-16 (upto January).
### INFOGRAPHIC of MoMSME

<table>
<thead>
<tr>
<th>PROGRAMMES</th>
<th>ACTIVITIES</th>
<th>ACHIEVEMENT</th>
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Future Plans of Ministry of MSME

Simplification of plan schemes guidelines & merger of schemes with similar objectives

The Ministry is actively working on simplification of the guidelines of various schemes and convergence of schemes with similar objectives. The Ministry has decided to merge various Marketing Schemes like MDA Scheme (International Trade Fair component), MATU, Export Promotion, Vender Development Programme, Publicity & Exhibition Scheme, TREAD and Bar Code. Similarly, various components of National Manufacturing Competitiveness Programme are also proposed to be restructured for more effective implementation.

Simplification of forms

For simplification of forms in line with the Udyog Aadhar Memorandum form, the Ministry proposes to simplify the application forms in respect of various schemes to make it user friendly. The guidelines to fill the form will be simplified as well. The proposal involves capturing basic information relating to the MSME enterprises from Udyog Aadhar Memorandum in Part I; followed by Part II of the Form which will include various scheme related information; and Part III will have minimum self-certified documents, which can be uploaded. Similarly, the Ministry is also working on mobile apps for easy application and tracking of status.
Design Clinic Scheme

Scheme introduction

The Ministry of Micro, Small and Medium Enterprises [MSME], Government of India, had launched Design Clinic Scheme under the National Manufacturing Competitiveness Programme [NMCP] to improve the competitiveness of MSMEs through Design and Innovation. The scheme was initially launched in the 11th Five year plan. After its successful achievement it has been revised/up scaled in the 12th Plan with enhanced activities, targets and budget. The objective of the Design Clinic Scheme is to enhance Industry understanding and application of design, design process, Innovation and to promote design as a value adding activity and enable MSMEs to integrate it to their main stream business and manufacturing processes, thereby expanding their domestic and global markets. The scheme provides financial assistance for design projects to MSMEs to avail design expertise and thus reduce the risk of return of investment and eliminate hesitation. The National Institute of Design (NID), Ahmedabad, has been designated as the nodal agency for effective implementation of the scheme activities.
Design Clinic Scheme for design expertise to MSME Sector

- Wood Router Machine
- Fire Fighting Vehicle
- Portable Vaccine Cooler
- Domestic Pumps
- Volumetric Infusion Pump
- Drawing and Dining Room Furniture
- Continuous Ice-Cream Freezer
- LED Street Light
- Shoe-Rack With Seating
- Composting Machine
- Domestic Furniture Systems
- C-Arm X Ray Device
- Khurja Pottery Products
- Stainless Steel Hospital Accessories
- Electro-Surgical Generators
- Currency Recharging of Cell Phones
- Molded Cartridge Filter Housing
- Knock-Down Coir Board Furniture
- Multipurpose Children Furniture
- Combine Groundnut Harvester
- Mobile Fish Cart
- Rotary Shaker Incubator
- Passenger Electric Vehicle
- Transfer Fusing Press
- Ophthalmic Examination Chair
- Display, Storage and Portable Vending System
- Domestic Water Meter
- Food Service Cart for Indian Railways
Design Clinic Scheme for design expertise to MSME Sector

- Freezer on Wheels
- Electric Bicycle
- Rice Planter
- Battery Operated Vehicle for Differently Abled Persons
- Bio-Chemistry Analyser
- Turbine Driven Portable Generator
- Automatic Thrust Turning Plant
- Physiotherapy Machine
- Fatigue Life Monitoring Device
- CNC Lathe Machine
- ENT Multiscope
- Fruit Juice Kiosk
- Ultra High Pressure Water Mist Based Vehicle
- Front Loaded Syringe Infusion Pump
- Tractor Bonnet
- Hands Free Toilet Flush
- Electric Kitchen Chimney
- DBV Machine
- Two Wheeler Medical First Aid Vehicle
- Newspaper Vending Machine
- Volume Control Dampers
- Electric Portable Hydraulic Power Pack
- Latex Rubber Gluing/Coating Machine
- Membrane Based Domestic Water Purifier
- Neonatal Intensive Care Equipment
- Gem-Diamond Scale Polishing Machine
- Groundnut Thresher
- Low Cost Sanitary Napkin Machine
Defibrillator

Project No: PDP-12-137
MSME Unit: Sahyadri Electromechanicals Pvt. Ltd., Pune, Maharashtra
Design Firm: Neodes, Pune, Maharashtra

Salient Features of the New Design:
» New range of product for MSME unit to offers variable energy level selection
» Higher Battery capacity - 50 shocks on single charge
» Adult & pediatric paddles support & 2” Printer for one stop solution
» Compact & Light weight for ease of carrying
» Possibility of ECG through Paddle
» Stores and prints 10 Second Defib data i.e. 5 seconds pre critical and 5 seconds post critical
» Meeting industry standards and Parameters - ECG, SpO2, NIBP

Collimation Device for X Ray Machines

Project No: PDP-12-157
MSME Unit: Thirumalai Engineering, Bangalore, Karnataka
Design Firm: Uttejna Technologies, Bangalore, Karnataka

Salient Features of the New Design:
» The device uses 4 lasers to indicate the position of each blade w.r.t. the X-Ray field
» New product can be used in normally lit rooms without darkening
» New product allows flexibility of time as laser can be left on as long as we like
» X Rays usable more efficiently as collimator
**Solar Insect Light Trap**

Project No: PDP-14-398  
MSME Unit: Safs Organic Enterprises, Puducherry, Tamil Nadu  
Design Firm: Frugal Warehouse, Madurai, Tamil Nadu  

**Salient Features of the New Design:**  
» Helps to catch all the Flying Nymphs and Adult insects  
» Identify the Pest and Insects pattern to develop Pest Management and control plan  
» Reducing crop damage and enabling pollination  
» Produced output has less chemical  
» Portable with no Major mounting or installation efforts required  

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**Led Based Industrial and Street Lights**

Project No: PDP-13-253  
MSME Unit: Suveg Electronics, Ahmedabad, Gujarat  
Design Firm: Cosire Innovations, Ahmedabad, Gujarat  

**Salient Features of the New Design:**  
» Ranges of three products, inspired from Leaves  
» Adjustable light direction with tilt arrangement  
» Efficient cooling using heat sink grade material  
» Optimized design with lesser weighed  
» More attractive but Low cost product in the market  
» Weather proof design, IP65 approved
Scientific Pathological Microscope

Project no: PDP-13-254
MSME Unit: M/s Gaurav Manufacturing Enterprises, Ambala, Haryana
Design Firm: Satyajit Madhav Prabhu, Ghaziabad, Uttar Pradesh

Salient Features of the New Design:

» Improved Features, functionality and utility
» Enhanced Durability creating differentiation from existing models
» Commonization of components to reduce inventory, cost of production
» Aesthetic improvements to match and beat international products standards, technics, explorations in modularity
» Design for assembly, packing, inventory to reduce the cost of products

Visitor Management

Project No: PDP-10-04
MSME Unit: Serum System Pvt. Ltd. Pune, Maharashtra
Design Firm: Akruti Consultant, Pune, Maharashtra

Salient Features of the New Design:

» Smaller foot-print compared to the traditional KIOSK look
» Desktop and wall mounted versions are offered
» Printing technology complements the short duration usage
» Touch screen driven user friendly interactive interface
» Appointment based system, Email invite to visitors
» Reports, leaving the office / organization, get directions
» Creates instant Employee badges with photograph & thumb print recognition
Design Clinic Scheme for design expertise to MSME Sector

Living Room Utility Accessories
Project No: PDP-13-298
MSME Unit: Jagdamba Cutlery Pvt. Ltd., Sonipat, Haryana
Design Firm: Sandip Paul, Noida, Uttar Pradesh

Salient Features of the New Design:
» 14 different project range designed to cater to luxury segment
» Gift range in enhance sale during festivities, corporate gifting and also for home
» Out come is of international standard and has potential to export
» Special packaging to add value and protect the finished products

Diesel Fuel Flow Meter
Project No: PDP-14-317
MSME Unit: Chintan Engineers, Ahmedabad, Gujarat
Design Firm: Cosire Innovations, Ahmedabad, Gujarat

Salient Features of the New Design:
» Ergonomically designed display with brand mark
» Facility of printing bills and maintain records of every transaction
» Display for total fuel
» Current fuel rate setting and fuel price
» Print fuel receipt
» Battery back-up and Get log-file in USB pen drive
Dial-a-Taste Vending Machine

Project no: PDP-14-463
MSME Unit: The Vending Company, Rudrapur, Uttarakhnad
Design Firm: Desmania Design Pvt. Ltd., New Delhi

Salient Features of the New Design:
» Allows these user to customise his beverage as per his taste and select the cup size.
» Innovation all plastic construction.
» Dust and insect proof.
» Electronically controlled beverage mixing.
» Simple yet rigid construction and assembly of the machine allows for easy servicing and assembly.

Milk-Analyzer

Project no: PDP-14-310
MSME Unit: Everest Instruments Pvt. Ltd., Visnagar, Gujarat
Design Firm: Cosire Innovations, Ahmedabad, Gujarat

Salient Features of the New Design:
» Fastest milk analysis (3 to 4 second) in the world
» Highly accurate spectrometer
» Data storage and management facility
» Easy to operate
Life Cradle Using Phase Change Material

Project no: PDP-13-242
MSME Unit: Pluss Polymers Pvt. Ltd., Gurgaon, Haryana
Design Firm: Design Directions Pvt. Ltd., Pune, Maharashtra

Salient Features of the New Design:

- Extremely low cost solution to birth asphyxia faced in India and other developing countries
- Gives the precise temperature control and require minimal manual supervision
- Low cost alternative to the expensive servo control instruments available in the market
- The design of cradle is light weight, easy to use, safe and ergonomic
- Simple design for the nurse to replace the PCM and to excess the baby
- Reduced cost new designed product
- Saving on production time / labour and enhanced efficiency

Body PUVA Therapy System

Project no: PDP-14-427
MSME Unit: Krupa Medi Scan, Ahmedabad, Gujarat
Design Firm: Universal Designovation Lab LLP, Rajkot, Gujarat

Salient Features of the New Design:

- Effective use of internal space making this product very comfortable to use.
- Triangular shape base ensure uniform distance between source and the patient that leads to homogeneous irradiation so the treatment time is shorter. As well compare to more general square shape it requires less space and material.
- Electric choke unit is at the bottom of the structure which can be retracted by slider mechanism arrangement. Easy to repair and maintain
- Easy and modular assembly makes it convenient for transport and packaging.
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.

Salient features:

- 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).
- These BIs are 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. These Institutions are also known as host institutions.
- 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.
Shriram Institute – Technology Business Incubator (SRI-TBI)

M/s Viridis Plastics Private Limited, New Delhi
Business Incubation for prototype development of Biodegradable Plastic Products

Supported for:
Prototype development of various disposable products such as cutleries and packaging films. Basic characterizations and evaluation. Plant & machinery commissioning & Trials. Capacity & capabilities building.

M/s. Deepak Electronic Industries, Delhi
Business Incubation for PVC cast products

Supported for:
Product Development Process Development & Optimization
Plant Trial on Semi-pilot Scale Batch Characterization & Evaluation. Market Feedback
Shriram Institute – Technology Business Incubator (SRI-TBI)

Rajendra Ladkat, M/s. Sanjeevani, Disaster Equipments (P) Ltd., Pune, Maharashtra, India.

**Goal:** To help victim in any type of accident viz. Drowning, Natural calamities like earthquake / floods/ cyclone/ tsunami, Snake-bite, Vehicle accidents, Food poisoning, Electrical shock, Fire, Terrorist attack.

**Kit contains**
- Sanjeevani Bag
- Activated Carbon mask
- Suction apparatus kit
- Neck belt
- Urinal bag
- Roller bandage
- Two 6 mm rods

**Advantages**
- Light weight (1.2 kg)
- Compact
- Cost effective
- Multipurpose
- Floatable
- Durable
- User friendly
- Washable

Sanjeevani Rescue Kit

**Goal:** To use in any type of emergency for rescue operation in water or on ground before victims get proper medication or hospitalization.

- Stretcher bag of rectangular shape made of non-woven fabric material with a Zip fastener at two sides
- 6’X 3’ Stretcher size
- 8 handles at four corners and midway, and a small chain fastener provided at mid portion of the front side to identify the person with inserted removable foam sheet.

**Advantages**
- Light-weight (1.2 to 1.6Kg)
- Compact
- Floating,
- Foldable,
- Economical,
- Flexible,
- Durable, Vibration absorbing, Washable and Fast drying,
- User friendly,
- Take a load of above 130kg in water.

Sanjeevani Stretcher
M/s Viridis Plastics Private Limited, New Delhi
Business Incubation for Prototype Development And Scale-up of Bio-degradable Plastic Products.

Supported for: Prototype development of various disposable products such as cutleries and packaging films. Basic characterizations and evaluation. Plant & machinery commissioning & Trials.

Mr. Aawash Daiya Delhi
Business Incubation on “To scale-up manufacturing facility for Air purifier/Air filtration devices .

Supported for: Product Development Process Development & Optimization Transfer of know how Hand holding in plant trials & commissioning of plant & machinery

KIIT-TBI, Bhubaneswar, Odisha

AEGLE Power Wheelchair by Er. Samit Ranjan Swayam Shree & Swagat Bhoi of M/s Ioke Motors Pvt Ltd
KIIT-TBI, Bhubaneswar, Odisha
Business Incubation on “To scale-up manufacturing facility for Air purifier/Air filtration devices.”

3D PRINTING
REVOLUTIONISING
the
CLASSROOM

3D Printers have actually been around for about 25 years. Barriers like costs are breaking down, so they are now very affordable and easy to use. 3D Printing has caught the attention of educators who are looking into ways to incorporate it into the classroom.

Using 3D Printers in the classroom could mean:

- Biology students can study cross-sections of hearts or other organs.
- Chemistry students can print out complex molecules to study.
- Engineering students can print modified car or robot parts.
- Geography students can print out topography, population or demographics of an area.
- Graphic design students can create prototypes of product designs.
- Food Technology students can design molds and cookie cutter templates.

Design and Engineering students can make prototypes of their creations.

Architectural students can print new or existing designs.

History classes can print artifacts for closer examination.

3D Printer by Dhiraj Chodhary, Ashutosh Patra & Anurag Kumar of M/s Fabonix Technologies Pvt Ltd
**IARI, ICAR, ZTM, New Delhi**
Production and Marketing of High quality Hybrid and OP seeds of Vegetables and fields crops By Dr L.K Pandey C/o M/s Ananya Seeds Pvt. Ltd.

**Innovation, Production and Marketing of Quality Soya Products under the Brand Name of Soya Nutri Nuts by Mr. Kundan Kumar C/o M/s KAD Bioresources Pvt. Ltd**

**Utilization of Waste Mango Kernel for Extraction of Rich Mango Kernel Butter and Oil by Ms. Tuba Sidiqui C/o M/s Nature’s Lap Pvt. Ltd**
Haemo Clip

Use: For ligating during & after performing Cardiac Surgery.

Unique Features:
- Process along with Tool has been developed to perform forming, cutting & bending.
- It is made of dia 0.4 wire of titanium alloy, Self locking
- It is an import substitute
- Undergoing clinical trials on animals.
- Patent filing has already been done.

Social Benefit: Lead to reduction in cost of surgery.

Ginning Tool

Use: Making the hand ginning process easy.

Unique Features:
- Tool is substitute to Valuga fish jaws, which are scarce
- Ginning process has become easy, effective & de-lethal
- Makes the fiber totally free from seed
- Increases the quality of the fiber
- Fair Tool price

Social Benefit: Safe & Easy process for Rural women workers
Floral Waste Distillation Unit

Use: To process the whole flowers like rose, marigold, jasmine, leaves of basil and bel using hydro-distillation techniques to produce natural aroma oil & floral & aromatic water.

Unique Features:

- First time simple hydro-distillation technique (easy for adoption even in rural areas) used for converting aromatic waste into useful product.

Social Benefit:

- Safe and useful disposal of leafy/floral and other bio-degradable waste of religious places.

- Convert waste into useful product (floral & aromatic water, oil and by product that can be used for producing biogas and organic manure) for the community.

- Initiative for cleaner river ghats leading to safe environment.
Smart Stove

Use: Cooking food preferably in rural areas

Unique Features:
- Can use any type of solid biomass fuel including, but not limited to, wood, cow dung and agricultural waste.
- Single burner, high-efficiency cook stove designed for long-term, everyday use.
- Produces 70% less smoke and uses 65% less fuel than traditional mud cook stoves.
- Complies with BIS (IS:12152). Emissions of noxious emissions well within nationally and internationally prescribed norms.

Social Benefit:
Add convenience to users’ lives by reducing the time and/or money they spend collecting or buying fuel and allowing for a more comfortable cooking.
MSME-GEF-UNIDO Cleantech Project

With a view to support a national policy and institutional framework for identification, deployment and commercialization of innovative low carbon technologies in selected SME clusters in India, Ministry of MSME in partnership with UNIDO is implementing a project “Cleantech Programme for SMEs” that has been funded by GEF. The basic premise for conceptualization of this project is to reduce carbon footprints of energy intensive SMEs by stimulating innovations and commercialization of clean energy technologies through clean technology ecosystem approach.

2. The project aims at creating an ecosystem, which will act as a catalyst, for fulfilling the vision that all SMEs in India should be energy efficient and must adopt cleaner technologies by 2025. The project aims at promoting clean energy technology innovations and entrepreneurship in selected SMEs in India through Cleantech innovation platform and entrepreneurship acceleration programme. Clean Technology Project will focus on linking innovators to investors in four key areas i.e. Energy Efficiency, Renewable Energy, Waste to Energy and Water Efficiency.

3. Main objectives of the project are:
   a) Setting up a national level platform to promote clean technology innovations and competitiveness of SMEs and business models that can deliver global environmental benefits;
   b) Building national capacity for clean energy technologies and development of a supportive local entrepreneurial system; and
   c) Policy and institutional framework for scaling up cleantech competition, innovations and acceleration activities across India.

4. The Cleantech project was launched on 3rd May 2013 with a total project cost of US$ 4.0 million in partnership with United Nations Industrial Development Organization (UNIDO), Global Environmental Facility (GEF) and Federation of Indian Chamber of Commerce and Industry (FICCI) as implementing partner in execution. The project is funded by all the stakeholders and co-financed by Government of India.

5. Under the programme, two Cleantech innovation competitions have been organised to promote innovations in the areas of Energy Efficiency, Renewable Energy, Waste to Energy and Water Efficiency and call for entries from SMEs. Glimpses of some best innovators are as below:
**The Idea**
Create an energy efficient alternative to conventional gas cooking technology.

**The Innovation**
Energy efficient burners - a patented technology developed for use in kitchens that utilize LPG and other fuels. The equipment is noiseless, flameless and smokeless and provides uniform radiant heat. This enables tastier and healthier food due to uniform heat across the vessel and preservation of moisture in the food.

The technology has not only been validated but also been certified for highest thermal efficiency at 69%. These burners are eco-friendly as they do not emit carbon soot and significantly bring down the ambient heat in kitchens.

**The Impact**
> Saves more than 30% LPG compared to normal burners
> Conserves water and detergent in industrial kitchens
> Enables a cleaner, greener cooking environment

**The Company**
Agnisumukh is a start up led by a team which has developed indigenously developed technology for domestic and industrial food preparation.

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Email: agnisumukh@gmail.com
Website: agnisumukh.com
RHINO MACHINES PVT LTD
ANAND, GUJARAT

The Idea
Design sustainable and clean technologies for the niche foundry business.

The Innovation
Ecoflex – an acronym for 'Economical & Flexible Plant' - sand plant systems.

Ecoflex was designed by Rhino based on its experience of making sand plants over the last 2 decades. It is a single configuration product with different capacities and has been introduced in the small foundries.

Twelve systems are operational, and the company is now looking to take the product to medium and large foundries.

The Impact
- 50% reduction in power use in production equipment
- 70% reduction in energy use in dust collection systems
- Clean, efficient and sustainable foundries

The Company
Rhino Machines Pvt Ltd is a fully fledged manufacturing firm that produces machines & projects for foundries for Sand Casting in all processes of updated technologies.

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Email: rhino.mk@gmail.com
Website: rhinomachines.net
PROMETHEAN ENERGY
Mumbai, Maharashtra

The Idea
Recover waste heat from chiller and compressor units, and reuse it as heat energy.

The Innovation
ChillerMate - an innovative waste heat recovery system that is sustainable and cost effective.

Over 50% of input energy to industrial applications is typically wasted as heat to the environment. ChillerMate recovers this heat and puts it to use as heat energy. Technology for this product has been developed at IIT Bombay. The product has wide applicability across a lot of industries including chemicals, food and beverages, textiles, hospitality and automotive sectors.

The Impact
- Reduces the fuel required by an industrial plant by up to 70%
- Reduces heating costs by up to 75%
- Rapid payback period of a few months

The Company
Promethean Energy builds unique waste heat recovery solutions for industrial and commercial applications, deploying cutting edge technologies to tap into sources of waste heat and recover them.

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prometheanenergy.com
AVANT GARDE INNOVATIONS
TRIVANDRUM, KERALA

The Idea
Create a low-cost clean energy solution for households by deploying small wind turbines.

The Innovation
A low-cost Small Wind Turbine (SWT) with minimum viable features to provide reliable power to residential & commercial customers in coastal and windy regions. The product uses a patent-pending indigenous technology in partnership with the world's largest DC group – Emerge Alliance.

The SWT generates a minimum of 120 kwh/month/KW (scalable upwards as required) and has the potential to reach and benefit approximately 7.4 million domestic consumers using less than 150 kwh/month in Kerala state alone.

The Impact
- Low-cost, easy to use, and low maintenance
- Reliable and clean energy
- Enables income generation via grid paybacks

The Company
Avant Garde Innovations is a start up aiming to introduce innovative, affordable and sustainable solutions that take renewable energy self sufficiency to the next level.

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Lean Technologies are important in achieving Zero defect and Zero effect manufacturing as desired by Hon’ble Prime Minister. The share of manufacturing sector in Indian National GDP over the years has decreased to 14 %. National Manufacturing Policy of Government of India envisages share of manufacturing to reach target of 25% of the National GDP by 2022 also vision by New National Programme-“Make in India”. The Lean Manufacturing Competitiveness Scheme (LMCS) is basically a business initiative to enhance competitiveness of the manufacturing sector, imbuing a culture of continuous improvement, inculcating good management system resulted through increase in overall productivity, quality of the product, process improvement, cost reduction, scientific inventory management, improved process flows, reduced engineering time and so on with the application of Lean Manufacturing (LM) techniques like 5S System, Visual Control, Standard Operating Procedures (SOPs), Just in Time (JIT), KANBAN System, Cellular Layout, Value Stream Mapping, Poka Yoke, Single Minutes Exchange of Dies (SMED), Total Productive Maintenance, Kaizen Blitz.

2. The Lean Manufacturing Competitiveness Scheme was started as a pilot phase in 2009 for 100 Mini Clusters (10 or so manufacturing MSME units) in 11th Five Year Plan. National Productivity Council (NPC) was selected as National Monitoring and Implementing Unit (NMIU) for facilitating implementation and monitoring of the Scheme.

3. The success and need of the scheme was evaluated (2012) by independent body i.e. by Quality Council of India (QCI). The evaluation report on Implementation of pilot LMCS has recommended the continuation of the Scheme keeping in view benefits amounting to about 20% increased in productivity to the units. Following are the few clippings of photograph showing differences before and after the status of implementation of the scheme.
4. The scheme was up-scaled in September, 2013 considering the recommendations of the evaluation report. The up-scaled Lean Manufacturing Competitiveness Scheme approved with a Total Project cost of Rs 240.94 cr. (GOI contribution Rs 204.94 cr.) for 12th Five Year Plan 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. Under the scheme, financial assistance upto Rs.36 Lakhs (maximum) per Mini Cluster of 10 units for a period of 18 Months or till completion (GOI:Units::80:20, Rs.28.8 Lakhs: Rs.7.2 Lakhs) is paid to Lean Manufacturing Consultants for intervention Lean Manufacturing Techniques in the units.
The Birth of ZED Maturity Assessment Model

India the land of opportunities, diversity and capabilities. It has been ranked among the top 5, ICEO preferred, investment destinations in the world. With a dream of making India as a global manufacturing Hub, Hon’ble Prime Minister of India has made the ambitious ‘Make in India’ call, inviting major manufacturers of the world to set up their base in India. With this call the focus shifts to the MSME sector of the industry that has been recognized as a growth engine for any economy. Under this initiative, it’s vital to provide a conducive business environment & a complete ecosystem to the foreign players, so that they perform and flourish. And one important component of this ecosystem will be availability of globally competitive MSMEs who will be the prime feeders to them. It therefore becomes imperative to ensure that these MSMEs meet the expectations of these investors. To make MSMEs globally competitive, it is not only the quality aspect that needs to be focused, but also the MSME’s approach towards preserving the environment in its manufacturing processes.

In order to build the ecosystem to implement the idea, three important components emerged as vehicles for this new transformation:

1. The ease of doing business in India
2. The confidence in quality of source material, components and services
3. Making available competent human resources to drive the change

Quality Council of India (QCI) has closely worked with DIPP, Ministry of Commerce and Industry and Ministry of MSME to create and build a model in perspective of the Government’s intent to change the course of economy by focusing on MSMEs as an engine to sustained growth by improving their quality. A model that will prepare, handhold and support the MSMEs across the manufacturing and service sectors for its progression towards global competitiveness. The idea was not only to strengthen “Make in India” initiative alone but to change the mind-set; that quality & environment can co-exist. ZED (Zero Defect Zero Effect) Maturity Assessment Model was thus born!

The ecosystem around ZED model is calibrated to make aware, assess, rate, counsel, handhold, re-assess & certify MSMEs and ensure that they rise up the ZED ladder, thus enhancing their competitiveness in the global marketplace and making them an important cog in the wheel of the “MAKE-IN-INDIA” campaign. It also, as a consequence, provides career opportunities for the youth in India.
The ZED Model

ZED Maturity Assessment Model is an integrated and holistic Certification System, which accounts for processes related to:

- Production Management
- Quality Management
- Design Management
- Safety Management
- Environmental Management
- Energy Management
- Natural Resource Management
- Human Resource Management
- Intellectual Property Management
- Performance Management

In the model, all along with quality of products and services, equal emphasis is on the elimination of adverse impacts on the environment, through adequate planning at product and process design, pre-production, production and maintenance activities, post production (disposal after use) and outcome of environment performance.

The net result is sustainable development.
The ecosystem of ZED has dynamic systems & processes working in synergy with specific roles to play in the foreseeable future. The sector specific models are aligned with all 25 sectors under the Make in India initiative, to begin with. The Rating & Certification on the maturity assessment model is valid for a specified time period in which the system of surveillance is inbuilt.

The ZED model comprises of 50 parameters on which a unit will be assessed and rated. Each Parameter has 5 Levels. The Rating is an average of the marks obtained on each parameter.

In order to prepare the MSMEs to create a value chain for the new regime, it is important that quality and competitiveness of Indian MSME is enhanced over a period of time. It will also provide an opportunity to units to strive to continuously improve its processes thereby aiming to move up the maturity assessment model (Bronze-Silver-Gold-Diamond-Platinum).

**ZED — A Roadmap to Global Competitiveness**

ZED is thus a win-win proposition for the manufacturers who will set up their base under the Make in India regime and emerging MSMEs who enroll themselves under this model of evolution. ZED will provide benefits like:

- Credible recognition of the industry for international customers seeking investment in India
- Streamlined operations and lower costs
- Superior quality, reduced rejection and higher revenues
- Increased environmental & social benefits
- Additional employment generation
- Other benefits as announced by the Government from time to time
EASE OF DOING BUSINESS
Ministry of Micro, Small and Medium Enterprises
Government of India
launches

Salient Features:
• No Fees For Udyog Aadhar Registration
• Registration Online – Single Page
• File More Than One Udyog Aadhar
• No Documentation Required
• Self Declaration

MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
GOVERNMENT OF INDIA
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