

# **COMPREHENSIVE ACHIEVEMENT OF IICT**

## **INTRODUCTION:**

Indian Institute of Carpet Technology (IICT), an institute with difference was conceived, by Ministry of Textile (MOT), Govt. of India (GOI) in eighties. IICT was given the autonomous status in December 1998 through formation of society. Involvement of broad based stakeholders/authorities include Govt. of UP, Industry, Academicians, Industrial experts, statutory bodies/authorities like AICTE, University, NABL, IFW-MOT etc in the Executive Committee Chaired by DC(Handicrafts) resulted role clarity and achievements.

## **ROLE OF IICT:**

IICT was given the mandate in the year 2000 to create its port folios and start providing support to industry. In order to play the role as mentioned above, the Institute came out with certain strategic plan, which shows activities behind each role as under.

<b><u>ROLE</u></b>	<b><u>ACTIVITY</u></b>
- Human Resource Development (HRD)	❖ Short Term Training ❖ Certificate Course ❖ Degree Course in Carpet and Textile Technology
- Design Creation and Development (DCD)	❖ Creation of Design ❖ Development of Design using CAD ❖ Bank of Motif/Design
- Research & Development (R&D)	❖ Product Development ❖ Technology Upgradation ❖ Standardisation: (Input – Process – Output) ❖ Sponsored Projects
- Technical Service Support to Industry (TSI)	❖ Sample testing ❖ Certification of Product ❖ Trouble Shooting ❖ Technical & Management Consultancy

# Portfolios wise Integrated Achievements (APRIL 2001 TO TILL DATE)

## 1.0 Human Resource Development (HRD)

### ☞ **Introduced long term training like B.Tech & Diploma course.**

- B. Tech Course in Carpet and Textile Technology (CTT): Started in the year 2001. Thereafter, specializations in Advances in Carpet Technology (ACT)/ Home Textile Technology (HTT)/ Textile Design Technology (TDT) have also been integrated to B.Tech in CTT with the due approval of G. B. Technical University, Lucknow. IICT has been awarded twice Star performing institute of the University.
- **373** Students have passed out for serving the trade, under took higher studies in premier institutes like IITs, NITIE, ISM, NIFT and self employment including entrepreneurship.
- **259** students undergoing graduation

### ☞ **International Distance Learning Programme (IDL P)**

- Certificate/ Diploma course through International Distance Learning program (IDL P) in collaboration with AG Research, New Zealand duly approved by DEC, IGNOU, MHRD, Govt. of India.
- Students enrollment in process.

### ☞ **Short term courses:**

- Tailor made Industry driven Short Term Training programs run time to time.

### ☞ **MES based :**

- Application of Computer and IT in Carpet Manufacturing.
- Carpet and Textile design using CAD
- Carpet Yarn Dyeing
- Carpet weaving
- Spinning of woolen yarn
- Washing & Finishing of Carpet.
- More than 5000 persons have been trained so far to mitigate the skill gap.

### ☞ **Through ISDS:**

- 1138 have been trained & other 2000 are expected to complete by 2015 covering above mentioned 6 MES.

### ☞ **Through CHCDS:**

- 2050 have been trained so far covering carpet weaving and 5000 are being covered in waving and other desired MES on getting sanction/grant.

*Note: Trade bodies like CEPC, AICMA have been provided the details of trainees & trainers. An extraordinary initiative by G.O.I. for mitigation of the skill gap. Industry to come forward and provide employment with fair wages to mitigate the skill gap. Trained persons under ISDS are working as Master Trainer for CHCDS implemented by IICT. Industry and other can utilize these resources. For testing & certification of trainee, DGET, Ministry of labour & Employment is being engaged.*

## 2.0 Design Creation and Development (DCD):

- ☞ 15388 designs have been developed and around 4638 designs have been utilized by industry for commercial purpose.
- ☞ Design solution: Design Bank to be made open and popular: single window solution – an extraordinary initiative by G.O.I through IICT.
- ☞ Development of Design using CAD.

## 3.0 Research & Development (R&D)

- ☞ **Product Development:** Quite a few product development activity has been done at institutional level and or in collaboration which includes :

- **Coir Based Carpet:** Project sponsored by CCRI, Kerala (MSME, Govt of India). Demonstration to beneficiaries has been made time to time and some of them are deriving benefits.
- **Silk Carpet :** Silk Carpet for awareness in Bhadohi
- **Eri silk Carpet :** Eri silk Carpet with the support from CSTRI, Bangalore and Govt. of UP. Sample have been demonstrated to industry.
- **Modacrylic based carpet :** The project was sponsored by M/s Mitsui & Co. Japan for promoting their fibre. Sample development was done in collaboration with industry and demonstrated to industry in number of occasions.
- **Handmade Astroturf type Carpet:** Sample development was done in collaboration with with M/s Rana Poly-Green Fila Private Limited, Kolkata. Sample demonstrated to beneficiaries including Udyog Bandhu Members in presence of the then District Magistrate SRN, Bhadohi and Div. Commissioner (Vindhyachal).



- ☞ **Natural fibre based carpet:** Large number of Industries came forward to see the master sample for reproduction and derived benefits.
- ☞ **Natural dyeing:** Expertise of IICT was availed by number of industries.
- ☞ **Organic product:** Expertise of IICT was availed by interested industries.
- ☞ **Substitute to polyester shaggy:** Expertise of IICT has been sought by number of industries and products are being developed for them.
- ☞ **Bhujbun Utilisation:** The problem of environment degradation out of disposal of waste / Bhujbun was tackled through R&D by means of developing out puts like tiles for floor /ceiling/as acoustic board besides as shoe bottom and cushion. Displayed number of times for the benefit of stakeholders in many occasion as well in Udyog Bandhu Meets.

☞ **Vertical Blind:** Coir based vertical blind has been developed for CCRI, Kerala for promoting this home textile product. Carpet industry can also avail the guidance from IICT.



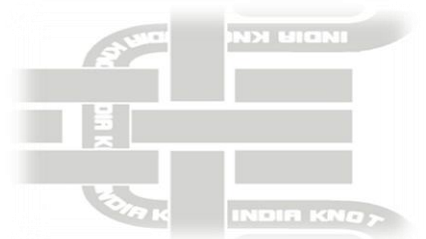
☞ **Coir Paper and Coir Silk:** Concept is being patented and being commercialized through appropriate partner. Articles developed in lab level have been displayed and attracted many potential licensee.

☞ **Ergonomic and Flexible Tufting Frame:** Concept is being patented and being commercialized through appropriate partner.



☞ **Metallic Loom for Hand knotted and Tibetan:** Developed version of loom(s) involving IIT Delhi, Technopack and Consultants. Looms are certified by industry to be useful however it involves cost and the same can be reduced further if scale of utilization is enhanced.

☞ **India Knot:** A proprietary knot known as "India knot" has been licensed to industry who opted. This knot can be employed in loom made carpet and performance is unique- industry can come forward and promote the same.



☞ **Modern Dyeing Plant:** In dyeing of yarn, industry through ASIDE Scheme of Govt. of UP has already identified low material liquor ratio dyeing technology and such a plant is being executed by BIDA in carpet city. IICT provided its expertise as and when asked for as consultant.

☞ **Carpet Backing Unit:** Carpet backing-another area which required substitution of latex by any such technology which can give relief to the industry to enhance the backing performance. Snehabha Carpet Backing Developed by IICT has been accepted by industry and BIDA is executing this concept with the support of MSME, Govt. of India/SSI & EP, Govt of UP and a SPV of Exporters. This unit can be flexible



for latex or such ingredient also with the facility to get the carpet backed at reasonably lower time.

**Absorption of Technology:**

- (i) IICT identified Chinese loom and imported for the benefit/absorption of Indian Carpet Industry-Under trial by Industry.
- (ii)IICT identified Automated carving scissor, imported from China and demonstrated for the benefit /absorption by industry.

☞ **Projects in Hand:** 39 Projects are in hand illustrated separately.

**4.0 Technical Service Support to Industry (TSI)**

- ☞ 16752 testing services provided to industry so far.
- ☞ Consultancy provided to centre of IICT at Srinagar, Industry/BIDA/Sahara India/CWDB etc
- ☞ Large number of industries have been benefited by trouble shooting service of IICT so far.
- ☞ Govt. of UP approved setting up of Eco Testing laboratory at IICT under ASIDE Schemes at a cost of Rs. 245.00lakhs. Communication/sanction is awaited.
- ☞ DC (Handicrafts), Ministry of Textiles desired IICT to submit proposal for upgradation of IICT testing laboratory to World Class in Megacuster Scheme of Govt of India.

For the above two projects after taking feedback from industry (CEPC & AICMA) IICT has submitted proposal.

**Result Frame Work Document (RFD) Achievement**

SI No.	Year	RFD Score out of 100
1	2010-11	98.00
2	2011-12	96.00
3	2012-13	93.00
4	2013-14	99.21
5	2014-15	98.00

# Extra Ordinary review

Time to time review by extra ordinary Visitors, press & media also took place and Coverage, Snaps of Golden moments and Comments of Salient Visitors are



His Excellency Dr. A.P.J. Abdul Kalam President of India inspected the IICT pavilion at Vigyan Bhawan, New Delhi on the occasion of Golden Jubilee Celebrations of Handicrafts on 15.11.2002. Appreciated the work done for a such rural and cottage sector providing valuable inputs- which is one of the greatest award I could get in the life.

Ms. SONIA GANDHI receiving her Carpetised Portrait from IICT in presence of the then HMOT & Chairman CEPC on the eve of inauguration of Rajiv Gandhi Handicrafts Bhavan





Indian Institute Of Carpet Technology (IICT) Bhadohi, has been awarded UPTU Excellence award as a Star Performer. The award was received by Vice Chairman Dr. Sandeep Srivastava & Prof(Dr) K. K. Goswami, Director, IICT, from H. E. Governor of U.P. & Chancellor of U.P.T.U. in a celebration on the eve of inauguration of NOIDA Campus of UPTU on 14.2.2008. Shri Sanjay Agarwal, IAS, DC(Handicraft), Chairman IICT, Dr. Sandeep Srivastava ADC(Handicraft), Vice chairman IICT congratulated Prof(Dr) K.K.Goswami Director IICT & his team for their effort in achieving this rare height.

**Mr. Ankit Kumar & Ms Shruti students of IICT are receiving Gold and Silver Medal for year 2010 respectively from His Excellency, Governor of UP, Chancellor, GBTU in presence of Ex-Chairman, ISRO, Dr. G. Madhavan Nair & other dignitaries**



**Union Minister of Textiles, GOI unveiling the Directory of IICT in presence of the then Development Commissioner (Handicrafts), Chairman IICT & Chairman, CEPC.**



**Hon'ble Minister of State for Textiles addressing the IICT faculty, staffs, students and Industry**





# Salient Achievements of IICT

**R & D:** Patents and commercialization of Snehabha backing, India knot, Cross Bar horizontal looms, several process and cross product developments;



## कालीन उद्योग भी चला हाई टेक की राह

**सविंद अंसारी**

अन्यथा किन्तु कार्य करने का राह है। इसमें कालीन वस्त्र उद्योग में कालीन विकास (सीडी) का कालीन विकास के लिए आईआईटी दिल्ली द्वारा विकसित लूम और अक्षर के प्रचार प्रसार का उपयोग हेतु स्वदेशी बुनकरों को प्रशिक्षण प्रदान है।

इसके अलावा का कोर्न लैंगर मध्य तक प्रत्येक बुनकरों को और अक्षरों पर प्रशिक्षण 15 दिन का होगा। आईआईटी के निदेशक डॉ. केंके गिरिकाने ने बताया कि लूम बुनकरों के लक्ष्य आगे बढ़ा भी नहीं बढ़ने से निवारण में पीछे रह जाएंगे। यह कालीन के विकास को बचा हो अथवा अन्य आवश्यकताओं को को निवारण के लक्ष्य करवा निवारण का करने के लिए आवश्यक तकनीक का प्रसारण होगा।

उन्होंने बताया कि संयोजन संयोजी कालीन को पूरा करने के लिए आईआईटी ने कालीन बुनकरों के लिए, उन्हें बुनकरों, उनका प्रशिक्षण प्रदान करने के लिए निदेशक, प्रमुखों तथा उनके आसने के लिए बुनकरों के अक्षर विकास प्रदान करवा निवारण के लिए दो और



आईआईटी (दिल्ली) द्वारा विकसित लूम तथा उस पर कालीन बुनकरों का प्रशिक्षण। पीछे - अन्य कालीन