

ROLE OF IICT

IICT & ROLE OF IICT

INTRODUCTION:

Indian Institute of Carpet Technology (IICT), an institute with difference was conceived, 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.

| ROLE | ACTIVITY |
|---|---|
| - Human Resource Development (HRD) | <ul style="list-style-type: none">❖ Short Term Training❖ Certificate Course❖ Degree Course in Carpet and Textile Technology |
| - Design Creation and Development (DCD) | <ul style="list-style-type: none">❖ Creation of Design❖ Development of Design using CAD❖ Bank of Motif/Design |
| - Research & Development (R&D) | <ul style="list-style-type: none">❖ Product Development❖ Technology Upgradation❖ Standardisation: (Input – Process – Output)❖ Sponsored Projects |
| - Technical Service Support to Industry (TSI) | <ul style="list-style-type: none">❖ Sample testing❖ Certification of Product❖ Trouble Shooting❖ Technical & Management Consultancy |

Portfolio wise achievements in the decade (April 2001- March 2013).

Portfolios wise Integrated Achievements

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.

➤ 203 Students serving the trade which includes higher studies in premier institutes like IITs, NITIE, ISM, and NIFT.

➤ 240 students undergoing graduation

➤ **Futuristic plan:** It has been possible to draft the futuristic plan which includes introduction of proposed courses like B.Tech in Fashion and Apparel Technology (FAT) with 60 intakes and M.Tech in Textile Management with 20 intakes and Ph.D. Programme covering Pre Ph.D. Course Centre for Textiles at IICT.

☞ **International Distance Learning Programme (IDLP)**

➤ Certificate/ Diploma course through International Distance Learning program (IDLP) 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 :** 566 have been trained & other 2000 are expected to complete by 2015 covering above mentioned 6 MES.

☞ **Through CHCDS:** 1150 have been trained till April and 1350 are expected to complete by Aug 2013 covering carpet weaving and 5000 by the year 2015 are being covered in waving and other desired MES.

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):

- ☞ More than 11000 designs have been developed and around 3500 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, Techno pack 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 know as “India not” 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 indentified 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 indentified 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.

4.0 Technical Service Support to Industry (TSI)

- ☞ 11877 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 cot of Rs. 245.00 lakhs.
- ☞ DC (handicrafts), Ministry of Textiles desired IICT to submit proposal for upgradation of IICT testing laboratory to World Class in Megacluster Scheme of Govt of India.
For the above two projects feedback from industry (CEPC & AICMA) has been sought. However, IICT is going ahead in submitting the proposal.

Statutory performance target of Govt. of India

Result Frame Work Document (RFD) Achievement

| Sl No. | Year | RFD Score out of 100 |
|---------------|-------------|-----------------------------|
| 1 | 2010-11 | 98 |
| 2 | 2011-12 | 96 |
| 3 | 2012-13 | 93 |

CONCLUSION:

Above information/presentation depicts given role of IICT and achievements made so far.

It clearly reveals significant achievements in all portfolios in general and RFD score for the last 3 years in particular which has been more than 90% is praiseworthy.

As far as R&D i.e. Technology Development/absorption part considerable commercialization and absorption have taken place considering Indian Carpet Industry is handmade focused.

More mechanization cum technology integration may have adverse effect.

Industry has been suggested to brainstorm and advice specific development/activity IICT should take up in collaboration with industry.

Industry body has been further requested to send their proposal to DC(HC) so that the same can appropriately be taken care of through relevant scheme like Megacluster under his control.

Finally IICT acknowledges the support of industry for its achievements.

It was further desired, that industry body (CEPC & AICMA) submit their feedback for each portfolio in the form of further requirement expressing their intension for collaboration as strategic partner.

IICT-Industry partnership is expected to result further manifold growth of industry.