Background

Bhanumurti (50 years), is an innovative weaver of handloom cotton sarees and has made an attachment to the existing handloom systems to simplify the automatic saree border insertion.

Second eldest among five siblings, Banumurthi did not have a simple childhood. His parents struggled to make ends meet, both weaving on two looms they possessed, and tried to make a living for their family. When he was just thirteen years old, he lost his mother because of which, he had to discontinue his studies and had to start learning weaving to support the family. By the age of sixteen, he was earning bread for his family by weaving.

After his marriage in 1977, he separated from the family and started his own work. He got orders from Chennai and made cotton sarees, jacket pieces, chudidar sets etc., using Jacquard box.

Genesis

Traditionally, all the weavers in his village had the knowledge of weaving in sets only and not korvai loom weaving. Korvai or ‘contrast’ weaving involves intricate weaving where the design and often the colour of the borders are different from that on the main body of the cloth. Three shuttles are needed: weaver operates two having an assistant on third.

While Banumurthi was happy receiving orders from Chennai and supplying new designs and varieties in clothes, he still fiddled with ways to improve productivity by using the loom effectively. He wanted to incorporate automatic koravi border insertion so that requirement of an assistant can be eliminated.

He worked for a couple of months and in 1985 came up with his automated version on which only simple koravi weaving was possible.

His restless mind did not seek peace with this success and he went on to make a fully automatic korvai loom in 1992, after a dedicated work of three months. This machine enabled him to do body weaving and border weaving uniformly apart from giving him the flexibility to weave borders ranging from 1” to 15” in width. Besides, as in modified handloom ‘korvai looms’, rakes of all types (Thazampu rake, Sheet rake, Pillaiyar-moku) can be woven on his machine.

Innovation

His automated system is somewhat similar based to the “Catch Cord Technique drawing device for looms” (United States Patent 4616680, 1984) though he was not aware of it. No assistant is needed and productivity gets increased.

In this technique, “Multi Catch Cords” are used to make “Temple Borders”. The number of catch cords is equal to the number of steps required in the Temple borders. Each step in the Temple Border is controlled by a separate Catch Cord and is individually operated by Dobby or Jacquard. In this technique, the picks per inch and the weave in temple border and the body of the sari are equal.

This technique does not employ the “Three/two cut shuttle” style and thereby eliminates an additional manpower requirement. The steps of temple border are formed automatically by the operation of catch cords.
cords arranged at different places through Dobby or Jacquard. This results in uniform height of steps and reduces physical and mental strain to the weaver.

The border warp threads are controlled by Healds, which give perfect/clear shedding and avoid mistakes in the interlocking. Of course, each pick is in two-ply and requires double time in picking to complete, which slows down the rate of production.

On an average, when this innovative technique is used, the production is on higher side when compared to the traditional three-cut shuttle weaving.

Banumurthi has installed one such device in Ramanathpuram village of Madurai district and trained about fifteen women weavers with the help of SEVA, Honeybee collaborator from Tamil Nadu. A couple of years ago there were about 300 families involved in handloom weaving in this village but due to the inadequate income, about 200 families migrated to nearby Tirupur Banian (vest) Factory for labour.

After the installation of this device, response from people has been very good and they are hopeful that those who left the village would be willing to return and take up again, their traditional occupation.

Indian Institute of Handloom Technology has commended this technique and suggested that it may be well adopted in handloom clusters, where Temple Borders are produced. GIAN Cell (Karnataka) is planning to conduct a training programme for handloom weavers in Karnataka region under Technical Education Quality Improvement Programme (TEQIP) of SSIT, Tumkur. Banumurthi was earlier felicitated with the SRISTI samman in 2006 for his innovation and contributions to the weaving society.