

(i) **Project title** : Development of an Android-based Mobile Application for garment industry for Instant Information Access and Quick Decision Making

**Objectives** : Indian Garment Industry, especially exports, mainly comprises of small and medium size manufacturing units. Most of SME's do not have any MIS such as ERP due to reasons such as very high cost, customization and maintenance issues due to which the top management is unable to access correct information at the right time. Keeping these factors in mind, NITRA planned to develop a Mobile App that would address most of these issues. The App will have following modules: (Shown in Fig. 18 given below)

- Fabric Re-conciliation
- Cutting
- Sewing
- Finishing
- Packing
- Cut to Pack Status



Fig. 18 : Modules of App

**Research outcome** :

- Survey was conducted in garment units to understand top management requirements and usefulness of the APP
- Visits to garment units were undertaken to understand prevailing methods of information gathering
- All the above-mentioned modules are now ready
- Internal testing of the App is in process
- After completing the internal testing, the APP will be launched commercially
- The App is named as “**APPRISE (Apparel Production Information System for Enterprises)**”
- Brief details of each module of the App are given below:

**Fabric Re-conciliation:** Fabric Reconciliation is an important activity in garment industry as fabric cost is almost 50-60 percent of total garment cost. The activity includes analysis of quantity of fabric purchased by a unit for each job order, quantity of fabric actually used according to order quantity, quantity of fabric left after shipment and how much fabric is lost as wastage in the process.

In the Fabric Reconciliation module of the App, we can see buyer-wise monthly Fabric reconciliation report for all job numbers. This App helps us to keep a check on fabric consumption as per planned and actual cutting average. It also gives us utilization percentage for each job number.

**Cutting:** In this module of the App. we can check the status of any order buyer wise/ style wise. All the details of a particular job order like fabric, color and cut quantity and balance to be cut can be verified easily. This will help the garment unit to do cutting room planning more efficiently so that input from cutting to sewing remains uninterrupted.

**Sewing:** Sewing means attachment of different parts of the cut panels together as per design. It is the most important process in garment manufacturing and generally involves highest number of manpower.

In this module of the App, one can check total pieces issued, total pieces received and balanced quantity for a particular job number, which will further help us to plan our production floor in better and effective manner.

**Finishing:** The App help us to check the current finishing status of every job number.

**Packing:** The App helps us to check the current packing status of every job number.

**Cut to Pack Status:** Under this section, one would be able to see the complete status of every order starting from cutting to packing.

The App is very user friendly and also has features like sharing, print and download and a very easy data input system. APRRISE provides a complete end-to-end solution to the user.