**Subject: Apparel Manufacturing I Lab**

**Experiment no. 09**

**Experiment name: Study on marker efficiency of trouser**

**Student Name:**

**Student ID with level & term:**

**Semester:**

**Introduction:** Marker is a diagram of a precise arrangement of pattern pieces for a specific style and the sizes to be cut from a single spread. On another word, Marker making is the process of determining the most efficient layout of pattern pieces for a specified style, fabric and distribution of sizes.

A marker is a mixing of many pattern sizes drawn on to a thin paper prior to cutting. Having a marker made it means that the design you will have the best utilization of fabrics saving money.

**Points to be considered before marker making:**

* Fabric width must be higher than marker width (1/2 inch)
* Fabric length must be higher than marker length
* Length of the cutting table
* Production planning
* When pattern pieces are laid down on the piece of cloth, the grain line should be parallel to the line of the warp in the woven fabric and wale in the knitted fabric

 **Calculation of Marker Efficiency:**

Marker efficiency is determined by the fabric utilization, the percentage of the total fabric that is actually used in garment parts. The area not used in garment parts is waste. Marker efficiency depends on how tightly the pattern pieces fit together within the marker.

 Area of pattern in the marker

Marker efficiency = X 100%

 Total area of the marker plan

**Total number of parts drawn in the marker paper:**

|  |  |
| --- | --- |
| Parts name | Quantity |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
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|  |  |

**Precaution:**

**Conclusion:**