

Experiment No: 03

Experiment Name: Study on Lay-out Plan of a Garments Washing Plant (by considering production of 4000 pcs/day-12 hr shift-3 dry and 3 wet process)

Theory:

Lay-out plan:

Objectives:

1. To find out the capacity of machine and instrument required for washing.
2. To measure the dimensions of lab machine and instruments.
3. To calculate the machine and manpower required for achieving target production per day.
4. To draw lay out plan of washing plant based on calculation.
5. To calculate the total required area for proposed washing plant.

Requirements:

Working Procedure:

1. Find the capacity of machine and instrument required for washing.
2. Observe and measure the dimensions of different machine, instruments of washing lab which are required for garments washing.
3. Select specific three washes for both dry and wet process.
4. Calculate the time required for selected specific washes.
5. Then calculate the machine and manpower required for achieving target production per day
6. Draw lay out plan based on the calculated number of machine and manpower required for achieving target production per day.
7. Finally propose the estimated area of drawn washing plant.

Description:

a) Different Sections in Proposed Washing Plant

b) Dry Process: Time required for selected three dry processes

i)

ii)

iii)

c) Wet Process: Time required for selected three wet processes

i)

ii)

iii)

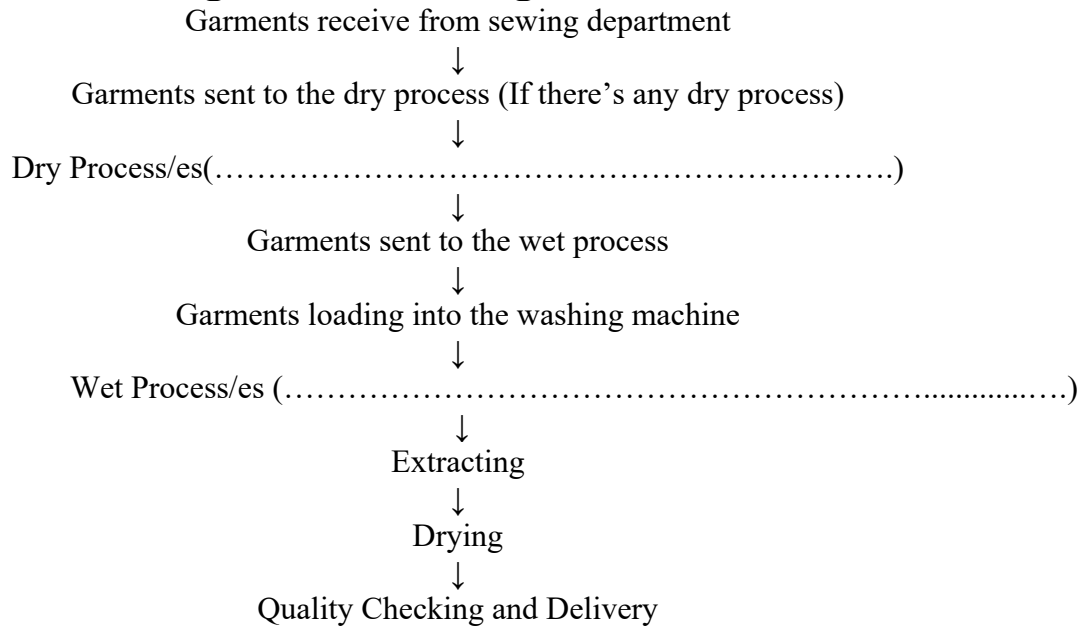
d) Common Process: Time required

i)

ii)

iii)

e) Flow chart for garments washing:



Data Collection:

A. Wet Process:

Sl. No.	Name of Machine	Specification			Capacity
01	Washing Machine	L=	H=	W=	
02	Hydro-Extractor	L=	H=	W=	
03	Dryer	L=	H=	W=#	
04	Boiler	L=	H=	W=#	

B. Dry Process:

Sl. No	Name of Tools/Machines	Capacity
01		
02		
03		
04		

Calculation:

a) Dry Process

b) Wet Process

c) Common Process

Figure of Lay-out:

Conclusion and Comments: