TRANSPORT KANBAN IMPLEMENTATION FORKITTING DEPARTMENT



WHY KANBAN?

- ► Kanban is a scheduling devise that authorizes the production line to produce.
- ► Main goal of the Kanban system is to limit the buildup of excess inventory at production line.
- ► Kanban will standardize the production with respect to material flow and increase the productivity.
- ► Kanban will increase production efficiency by rhythmic material flow.

IMPLEMENTATION OF KANBAN

- Observed the current workflow.
- Noted the types of packing in the process.
- ► Since there are many varieties in each type it is further classified into runners & exotic types.
- ► The main four types of A-Pump spares packing in WW7700 dept.. Are
 - HAND PRIMER KITTING
 - OH KITTING
 - PF KITTING
 - COMPONENT KITTING



COVERAGE CALCULATION

- ▶ Runners are identified based on the demand (month on month).
- ► As this material is C class, RELOWISA calculation was not considered (as per BPS standards)
- Coverage of materials is considered for 7.25 hr. approx. one shift.
- Example of coverage for Hand primer :
 - ► Hand primer SNP -768 pc
 - ► Target /shift per person -800 pc/shift
 - ► Target / hr. per person -106 pc packing
 - Cycle time =34sec/ pc
 - ► 768*34/3600*3 =...2.417 ...Coverage in hr.
 - Min Kanban 1 = ...2.417...Coverage in hr.
 - ► Max Kanban 3 = ...7.25.... Coverage in hr.



STANDARD FOR PRIMARY PACKING MATERIAL OF HAND PRIMER

	SI NO.	Type number	PRIMER	Р	Plastic Bag 1	Pre Part Qty	Plastic Bag 2	Pre Part Qty	Cardbo ard box	Pre Part Qty	label 1	Pre Pa Qty	rt label 2	Pre Part Qty	VCI papers	Pre Part Qty	Corrugat ed box	Pre Part Qty
	1	F002.A50.013-07 9	F002.A50.013	768					600076 7118	1400 Nos		N/A		70*50			6000738	
	/	0		768 6	600080183	25 Kg			12.200				mm			890	Pcs	
Primary					_					Kg				100*25				
Packing materia	3	F002.A50.013-77 0	F002.A50.013	768	609980104						60004 74	1495 10 1 rc	0/ <u> </u> 609994		6099814	500		
	4	2447.222.126-77 0	2447 222 126	768		6099801	25 Kg					122	100/rol	024 I	Pcs	6000738 970	25 Pcs	
		0	2447.222.120	700			014										6000738	
	5	2447.010.038-77 2	2447.222.126	768										Γ			918	50 Pcs
	6	2447.010.020-77 0	2447.222.098	768			6000801 832								6099814 024	500 Pcs	6099770 023	



COVERAGE FOR HAND PRIMER WITH PHOTO

			PERSHIFT									1 1	
PART NUMBER	Description	SNP/ Dolley	PER PERSON SHOP	PER HR PER PERSON	Per Piece (In Seconds)	Coverage in Hrs	For kanban Card(Min)	Coverage in Hrs	Max	DOLLEY	вох	No Pieces /TRAY	PHOTOS
F002,A50,013	Hand Primer	768	TADGET 800	106	34	7.2	1.0	21.7	3.0	2	N/A	32	10000
6000,767,118	CARDBOARD BO	1400	800	106	34	13.2	1.0	39.6	3.0	NŽA	1	N/A	
6099,940,122	LABEL Roll	1000	800	106	34	9.4	1.0	28.3	3.0	N/A	i	N/A	
	CORRUGATED BO	50	30 (1BOX=30)	4	900	12.5	1.0	37.5	3.0	N/A	i	N/A	
			***************************************	· ·	***	12.0		01.0	0.0	14.11	·	14111	
PART NUMBER	Description	SNP/ Dolley	PER SHIFT PER PERSON SHOP TABGET	PER HR PER PERSON	Per Piece (In Seconds)	Coverage in Hrs	For kanban Card	Coverage in Hrs	Max	DOLLEY	вох	No Pieces /TRAY	PHOTOS
2447.222.099	Hand primer	768	800	106	34	7.2	1.0	21.7	3.0	2	N/A	32	0.0
6000.801.832	Plastic bag 1 (KG)	25	800	106	34	0.2	1.0	0.5	2.0	N/A	1	N/A	2 1
	Plastic bag 2 (KG)	25	800	106	34	0.2	1.0	0.5	2.0	N/A	1	N/A	1
6099.940.122	LABEL Roll	1000	800	106	34	9.4	1.0	28.3	3.0	N/A	1	N/A	0
PART NUMBER	Description	SNP/ Dolley	PER SHIFT PER PERSON SHOP TABGET	PER HR PER PERSON	Per Piece (In Seconds)	Coverage in Hrs	For kanban Card	Coverage in Hrs	Max	DOLLEY	вох	No Pieces /TRAY	PHOTOS
F002.A50.013	Hand Primer	768	800	106	34	7.2	1.0	21.7	3.0	2	N/A	32	Co-sellistee
6099.801.014	Plastic bag1 (KG)	25	800	106	34	0.2	1.0	0.5	2.0	N/A	1	N/A	-
6099.801.049	Plastic bag 2 (KG)	25	800	106	34	0.2	1.0	0.5	2.0	N/A	1	N/A	
6099.940.122	LABEL Roll	1000	800	106	34	9.4	1.0	28.3	3.0	N/A	1	N/A	1 100
6099.814.024	VCI Paper	500	800	106	34	4.7	1.0	14.2	3.0	N/A	1	N/A	
6000.449.574	LABEL Roll	1000	800	106	34	9.4	1.0	28.3	3.0	N/A	1	N/A	The same of
PART NUMBER	Description	SNP/ Dolley	PER SHIFT PER PERSON SHOP TARGET	PER HR PER PERSON	Per Piece (In Seconds)	Coverage in Hrs	For kanban Card	Coverage in Hrs	Max	DOLLEY	вох	No Pieces /TRAY	PHOTOS
2447.222.126	Hand Primer	768	800	106	34	7.2	1.0	21.7	3.0	2	N/A	32	— Bo
6099.801.049	Plastic bag 1 (KG)	25	800	106	34	0.2	1.0	0.5	2.0	N/A	1	N/A	8 2
6099.801.014	Plastic bag 2 (KG)	25	800	106	34	0.2	1.0	0.5	2.0	N/A	1	N/A	2.3
6099.940.122	LABEL Roll	1000	800	106	34	9.4	1.0	28.3	3.0	N/A	1	N/A	
6099.814.024	VCI Paper	500	800	106	34	4.7	1.0	9.4	2.0	N/A	1	N/A	1
6000.738.970	CORRÚGATED BO	25	30 (1BOX=30)	4	900	6.3	1.0	18.8	3.0	N/A	1	N/A	14



TOTAL NUMBER OF STANDARDS CREATED:

Type	Packing material standard	Components standard	Total
HAND PRIMER	1	NA	1
PF KIT	1	1	2
COMPONENT KIT	1	1	2
OH KIT	1	1	2



TRANSPORT KANBAN CARD SAMPLE FOR MATERIALSUPPLY

BOSCH			II .	MR TRANSPOR	T KANBAN		⊜ BOSCH		
<1> part number	609)23	<2> Description	CORRUGATED BOX		<11>Milkrun code	60		
<3> Supplier		LOG1		<4> Customer	1	WW7700	<12> Symbol	99	1
<5> Quantity <6> Unit		PCS	<7> Pack type	PLASTIC BAG		<9> Kanban position :	97	> part	
<16> Supplier DATA	VLocal use	되니	<15>Barcode	KIT I	PACKING 1	02 HANGER FOR I	HAND PRIMER	70	t number
LOG	P.F.	- WHI	<17> Delivery Schedule	<8> Kanban number	<10>Kanban Quantity	<13> Issuer	<14> Date of issue	023	
				2	3	WW7700	6.08.2019		





LOCATION IDENTIFICATION FOR MATERIAL IDENTIFICATION



SUPER MARKET

DOLLEY LINE

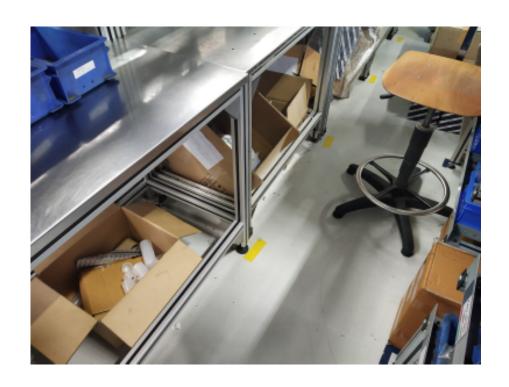


5S IMPROVEMENT ACTIVITY

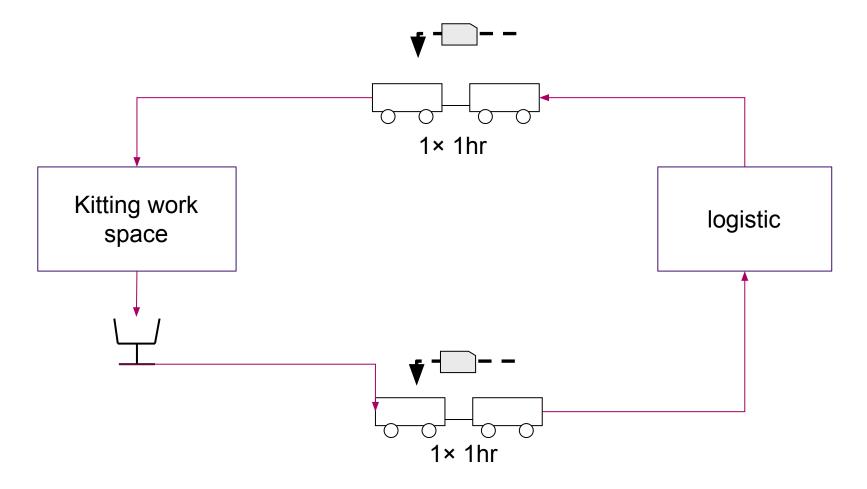
BEFORE

AFTER





TRANSPORT KANBAN MOVEMENT LOOP





RESULT

- ▶ Quantity, part type ,and part number data is collected.
- Coverage for all types is taken and standard is prepared accordingly.
- Kanban card for hand primer, PF and component kits are prepared.
- Kanban are made for avg. 6 types in each family
- Location is given in the super market for every packing material



TOTAL NUMBER OF KANBAN CREATED

Type	Number of Packing material	Total Number of Kanban cards prepared
HAND PRIMER	15	15*3=45
PF KIT	08	8*3=24
COMPONENT KIT	13	13*3=39
OH KIT	13	Yet to be done



FUTURE ACTIVITY

- ► Transport Kanban card of packing material for all types in each family.
- Hardware for RFID to be installed.
- Milk run and shop associates must be trained about the Kanban system and its use.