ELECTRICITY

Smithfield 500 KW
Total Required 870 Amps
@60% = 522 Amps for
Liquids

FUEL

Gas Supply
28960 GJ/Year

STEAM

Boiler 2MW

TOWNS / DI WATER

235 + 30% Peak
= 305T/ DAY

COMPRESSED AIR

10bar @ 260L/sec

FIRE PROTECTION

TBC

OPERATIONS PLANS

Production	Current Capacity	Future Capacity
20/6 - 50 Wks /Yr CIP = 1 Hr	20.4 Mil Units / Year 81.6 K / Day 220 T / Day	33 Mil Units / Year 132 K / Day 340 T / Day

BULK DELIVERY

Max
4 Trucks/ Day

PACT DELIVERIES

Max
1 Truck/ Day

PACKAGING MATERIALS

Plastic Resin
Plastic
Sachet Reels
Bottle Labels
Carton Cases
Shrink wraps

27 Trucks/Day

Packaging Storage

4000 Pallets

Ingredients
Storage (PALLETS)

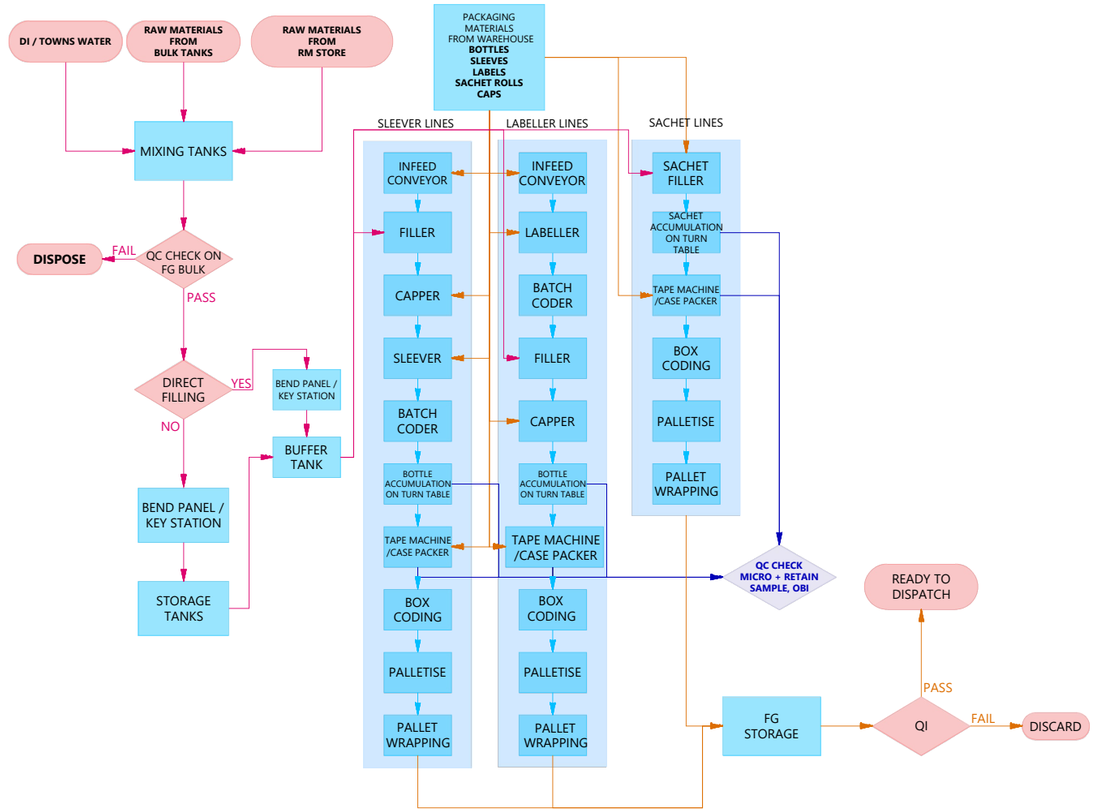
Drums - 250 Pallets
IBCs - 150 Pallets
DG - 50 Pallets

Finish Goods

4500 Pallets

Total Storage area required (Pallets)

FG	16000
Bottles	12000
Shippers	3000
Raw Material	3000



Revised Current Plus
Future Filling Lines

6 Lines
1 New HS Filling Line

22 Trucks /Day

FG (Peak Pallets/Day)
Smithfield Site

726 Pallets

STAFF

Liquid	- 94
Warehouse	- 18
Quality	- 4
Admin	- 10
Engineering	- 9
TOTAL	- 135
New Site Target	- 114

1 Truck /Day

SOLID WASTE

Plastic
Cardboard
General
Scrape Products

CIP WASTE

Reject Products
Rework

Total 60KL

WASTE WATER TREATMENT

100KL for Smithfield
50KL for other sites

Total 150 KL all sites

ASSUMPTIONS

FG Pallet 820Kg (average)
970Kg Max
Truck - 34 Pallets load

COMMENTS :

REVISION	DESCRIPTION	DATE		SIGN	DATE
			DRAWN	SS	01/10/20
			CHECKED		
			APPROVED		

SCALE 1 : 400
SHEET SIZE A3
SHEET NO.
ALL DIMENTSION ARE IN mm UNLESS OTHERWISE SPECIFIED

DRAWING TITLE :
LIQUID PROCESS FLOW DIAGRAM

DRAWING NO. :

JALCO GROUP
LOT 1 DP1024505
277-303 WOODPARK ROAD, SMITHFIELD, NSW, 2164

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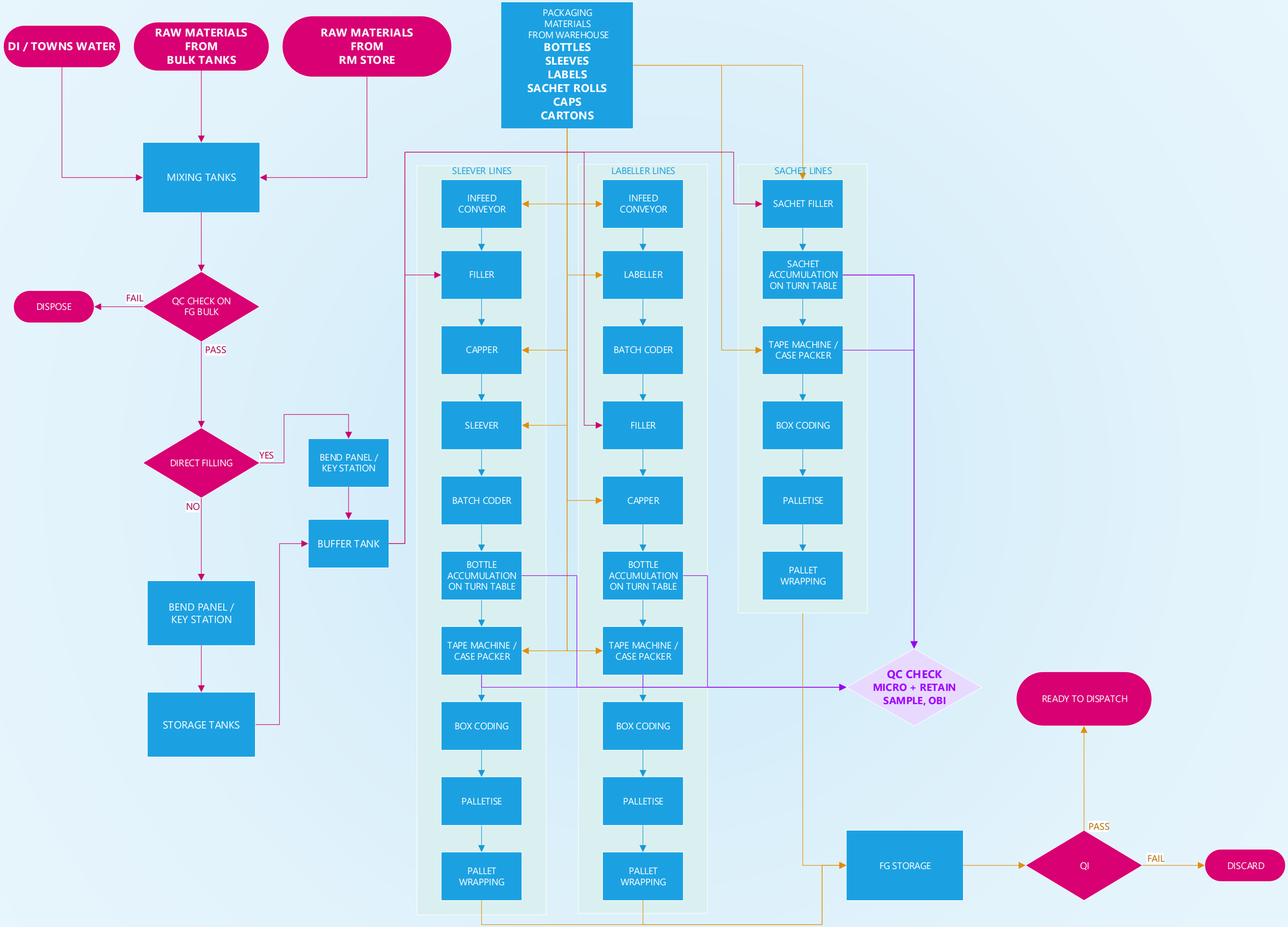
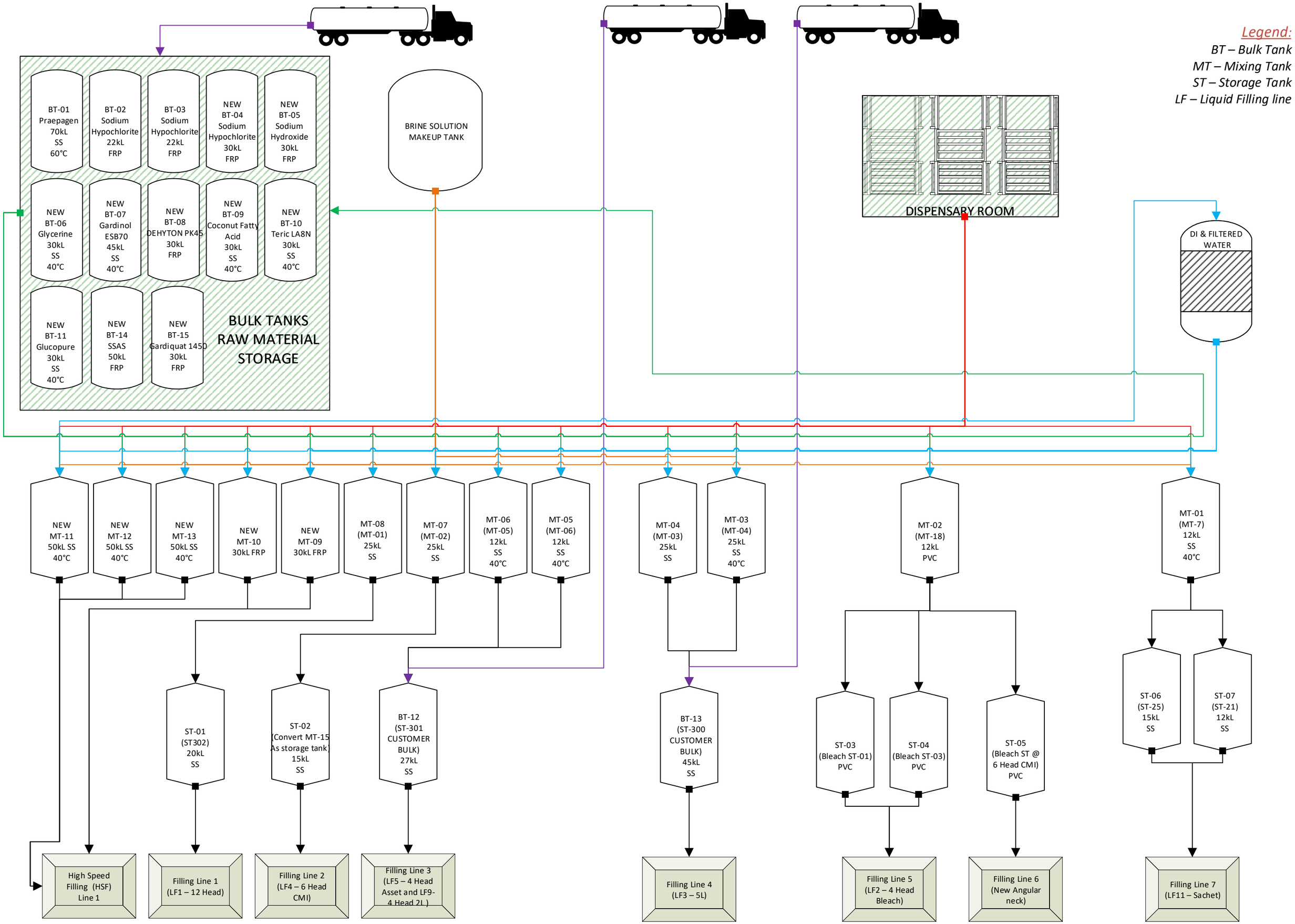

DI / TOWNS WATER
RAW MATERIALS FROM BULK TANKS
RAW MATERIALS FROM RM STORE
PACKAGING MATERIALS FROM WAREHOUSE
BOTTLES
SLEEVES
LABELS
SACHET ROLLS
CAPS
CARTONS
MIXING TANKS
QC CHECK ON FG BULK
FAIL
DISPOSE
PASS
DIRECT FILLING
YES
NO
BEND PANEL / KEY STATION
BUFFER TANK
BEND PANEL / KEY STATION
STORAGE TANKS
SLEEVER LINES
INFEED CONVEYOR
FILLER
CAPPER
SLEEVER
BATCH CODER
BOTTLE ACCUMULATION ON TURN TABLE
TAPE MACHINE / CASE PACKER
BOX CODING
PALLETISE
PALLET WRAPPING
LABELLER LINES
INFEED CONVEYOR
LABELLER
BATCH CODER
FILLER
CAPPER
BOTTLE ACCUMULATION ON TURN TABLE
TAPE MACHINE / CASE PACKER
BOX CODING
PALLETISE
PALLET WRAPPING
SACHET LINES
SACHET FILLER
SACHET ACCUMULATION ON TURN TABLE
TAPE MACHINE / CASE PACKER
BOX CODING
PALLETISE
PALLET WRAPPING
QC CHECK MICRO + RETAIN SAMPLE, OBI
FG STORAGE
QI
PASS
FAIL
READY TO DISPATCH
DISCARD



Process Flow Diagram and Representation of equipment list issued for relocation

Drawn By: Gopi Dhanekula