

IoT for smart monitoring chemical in washing area (Keysight, Casting)

August 1, 2024

01 Set team member

02 Objective

03 Time flame

04 Cost & benefit

• Our Team member

Project leader

- Boondarika

Advisor

- K.Arkhom
- K.Worathep
- K.Apichat
- K.Wannawat

LPN1

SAFETY

- Kantima

MIS

- Nattiya

FACILITY

- Nitiphong
- Teerasak
- Thanachat

LPN2

SAFETY

- Prakrykarn

MIS

- Sawettachat

FACILITY

- Suntut
- Ronnayut
- Aittichai

Objective

- To increase channels to monitoring risk of the employees health.

Timeframe

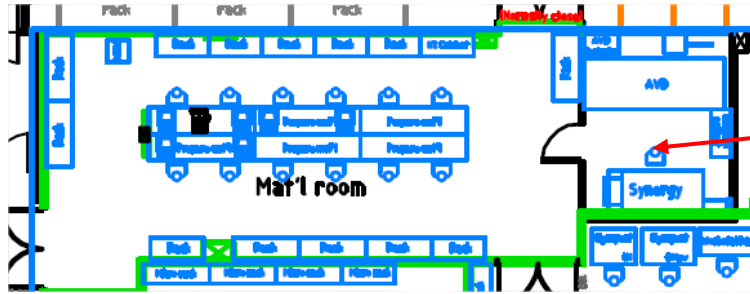
	Description	August				September				October					Remark
		32	33	34	35	36	37	38	39	40	41	42	43	44	
PLAN	To review and set a plan and team to prepare data for this project	----->													All
	Team meeting to study the project	----->													All
DO	Find an equipment for this project (Acetone detector)		----->												Safety
	Design the IoT system for this project				----->										MIS, Facility
	Design system and report				----->										MIS, Facility
	RFQ all equipment				----->										Safety
	PR & ME preparation & approve						----->								Safety
	PO conclusion							----->							Purchasing
	Installation chemical detector, develop IoT system and web system.										----->				All
CHECK	Perform test all functions												----->		All
ACT	Conclusion the project													----->	All
	Release report													----->	All

-----> **PLAN**

-----> **ACTUAL**

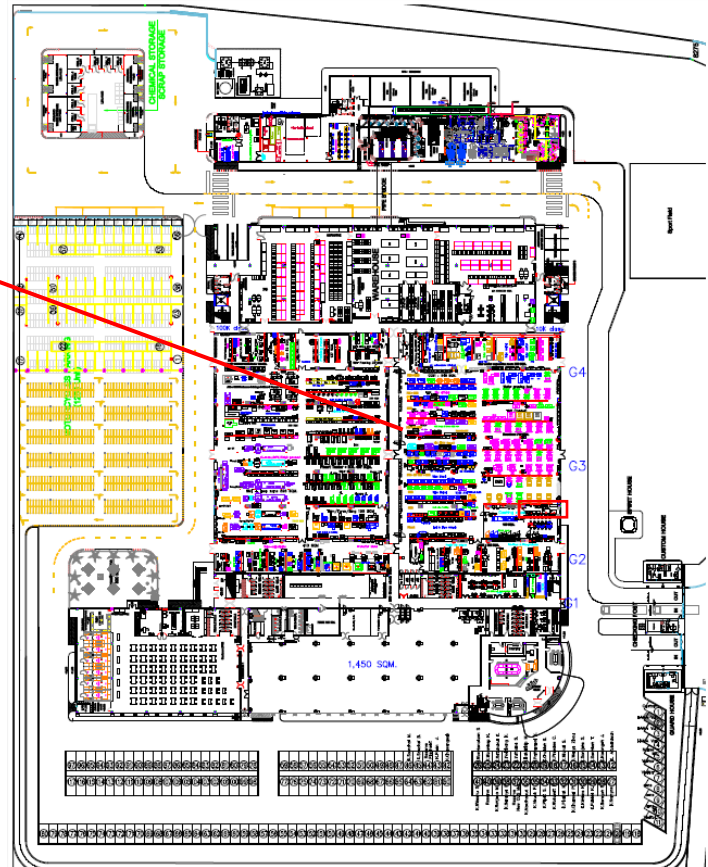
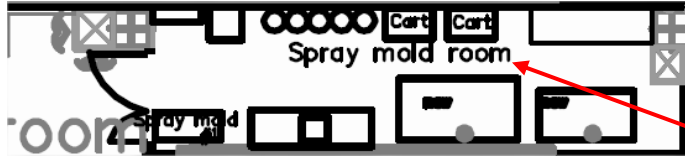
SCOPE (LPN1)

Keysight



SCOPE (LPN2)

Casting room



CONCEPT



- Installation chemical detector
- Develop program IoT by Facility software engineer.
- Web service by MIS (Create program)
- System, report and Function (Graph, table)
 - Over limit alarm & alert (Function)

Cost & benefit

COST

- ~40K/4 sets (LPN1 & LPN2)

BENEFIT

- Decrease risk of the employee's health.
- Prevent loss of the employees life.
- Safe and can be immediate response when the chemical over the limit.
- Increase channels to monitor the risk of the employee's health and safety officers can monitor the behavior of employees about wearing the personal protective equipment as well.



Thank you

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