PCL Plant Control System



Creation by :	Foster	Date :	28-03-2022
Checked by :	Foster	Date :	28-03-2022
Aproved by :	Jamras	Date :	28-03-2022



Customer :	Unilever Thai Holding Limited

Project Name:

lever That Holding Limited	B1	28-03-2022	Initial Issue	
	C1	-	Construction	
PCL Plant Pre-Weight	D1		As built	
System				
System				

Description	
Initial Issue	PCL Plant Control System
Construction	Cover Sheet

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Creation by :	Foster	Date :	31-10-2022
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Aproved by :	Jamras	Date :	31-10-2022



Customer :	Unilever Thai Holding Limited

Project Name :

B1	28-03-2022	Initial Issue	
C1	28-08-2022	Construction	
D1	31-10-2022	As built	
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PCL Plant Pre-Weight System

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FOS	Creation by : Foster Date : 31-10-2022 Checked by : Foster Date : 31-10-2022		Customer : Unil	REV. Date Description Title :	Index 2

FOSTER
ENGINEERING

Creation by :	Foster	Date :	31-10-2022
Checked by :	Foster	Date :	31-10-2022
Aproved by :	Jamras	Date :	31-10-2022

Unilever
Unilever Thai Holding Limit

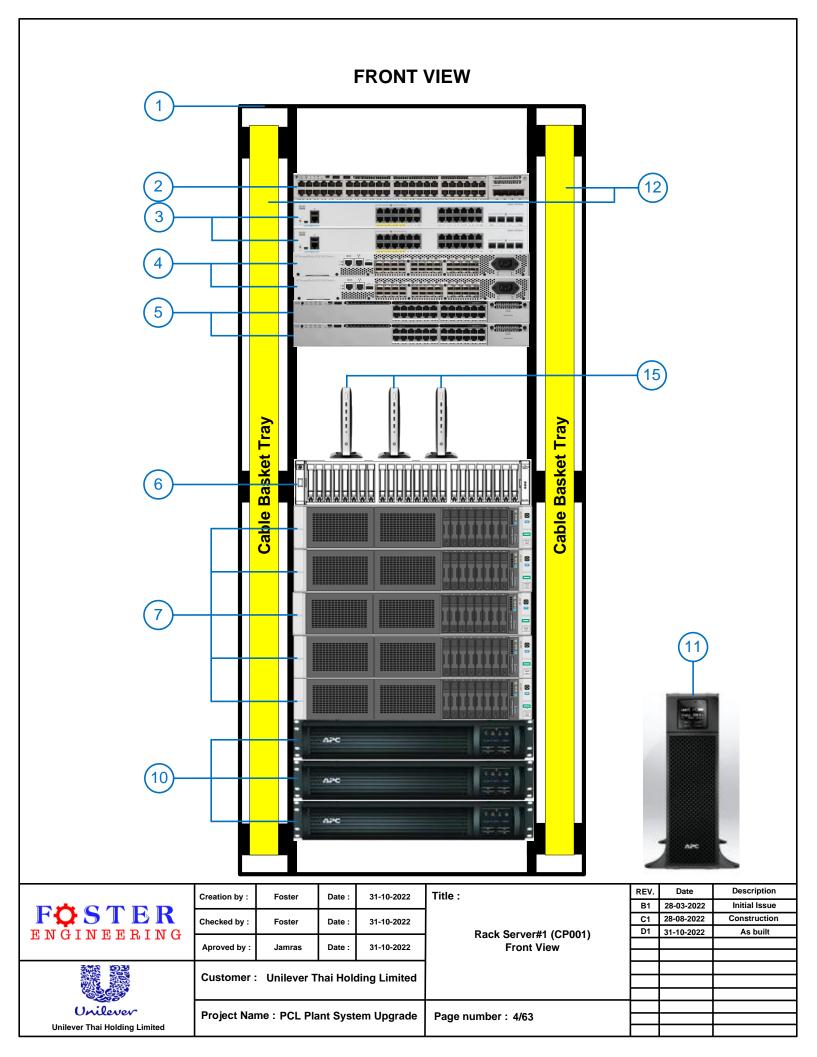
Customer :	Unilever Thai Holding Limited

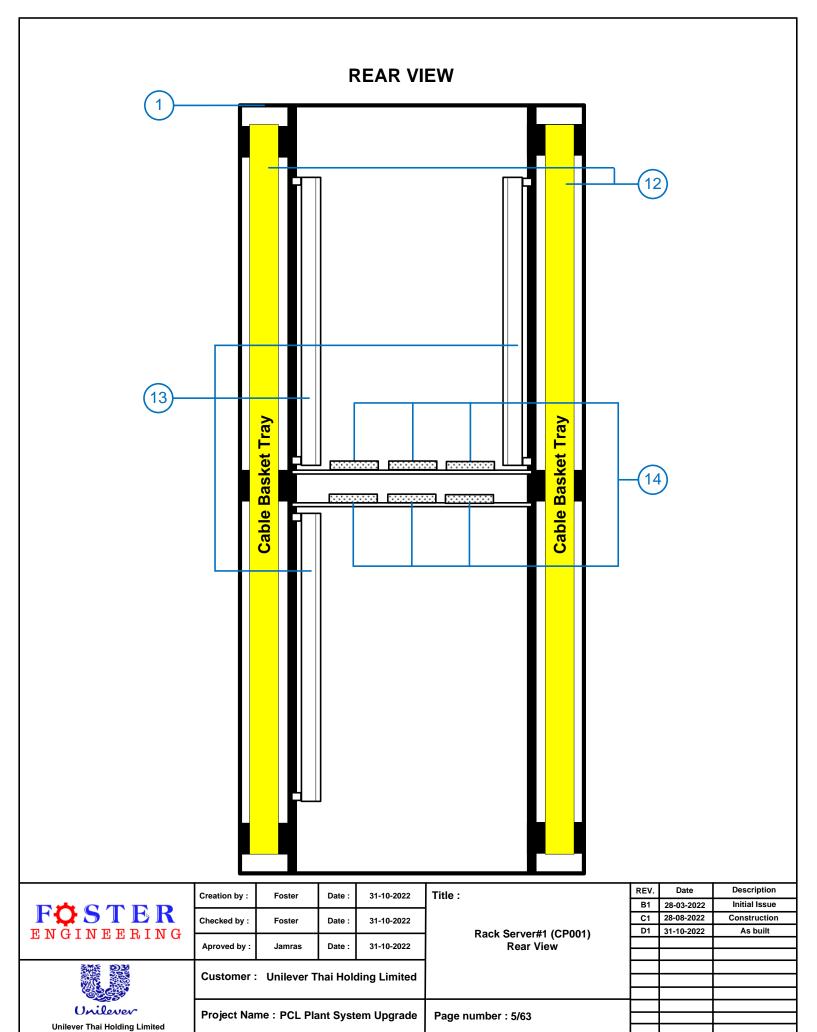
Project Name :

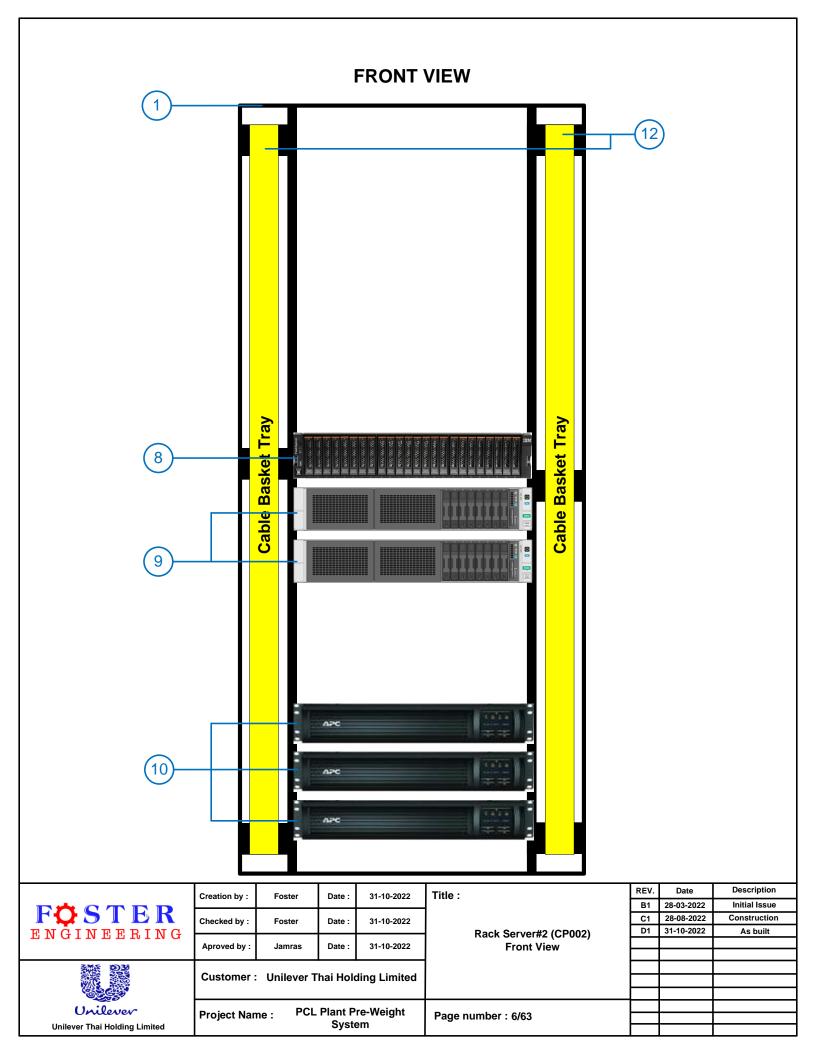
PCL Plant Pre-Weight System

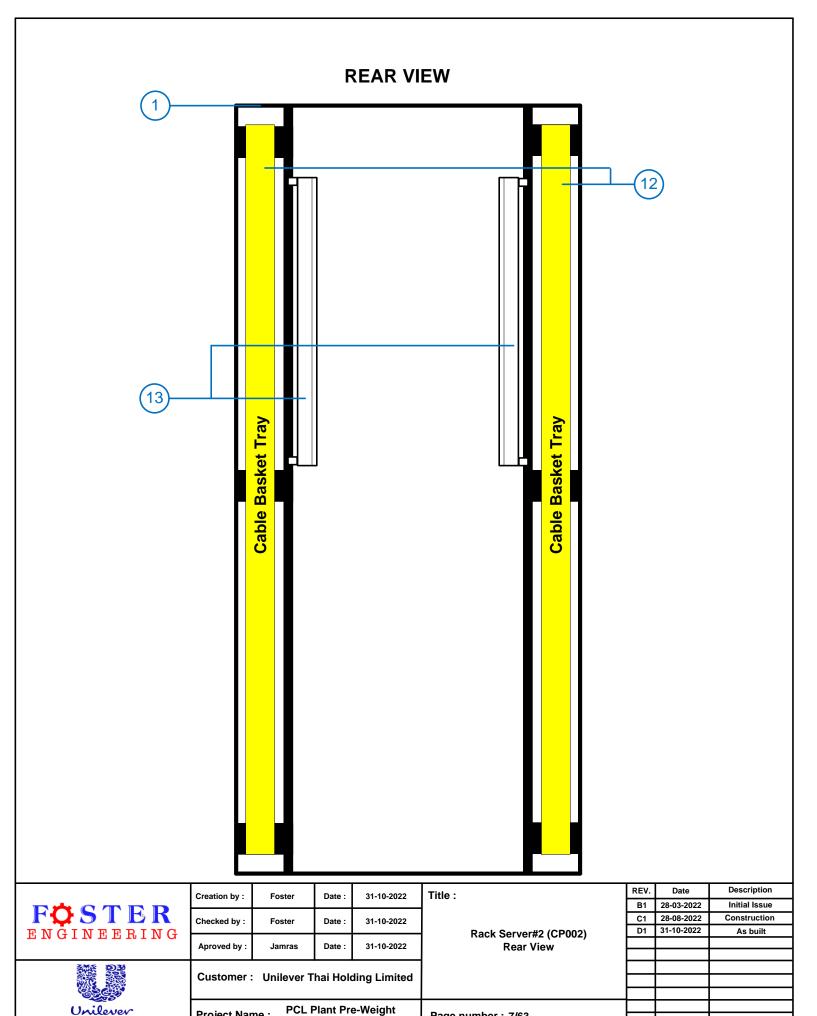
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	B1	28-03-2022	Initial Issue	
	C1	28-08-2022	Construction	
	D1	31-10-2022	As built	
1				D.

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Unilever

Unilever Thai Holding Limited

Project Name:

System

Hardware Equipment List

Item No. Equiment Name		Model Number	Serial Number	Description	Qt'y		
4	Rack Server	HP-8042	N/A	19' High Perforation export Server Rack 42U 80x100 cm.	2		
1	Ventilating fan	VA-6602	N/A	Ventilating Fan	2		
2	HUB#3	C9200L-48T-4G-E	48T-4G-E JAE2615195E CISCO Catalyst 9200L 48-port switch, P/N : C9200L-481				
•	HUB#4	C1000-24T-4G-L	FOC2615Y868	CISCO Catalyst 1000 24port GE switch, P/N : C1000-24T-4G-L	1		
3	HUB#5	C1000-24T-4G-L	FOC2615Y99X	CISCO Catalyst 1000 24port GE switch, P/N : C1000-24T-4G-L	1		
	11112110	AM867C	CZC746TM8R	HP 8/8 (8)-port Enabled SAN Switch	1		
4	HUB#6	AJ7168	N/A	HPE 8Bg Short Wave B-series Fibre Chanel 1 Pack SFP Transceiver	8		
4	11110.117	AM867C	CZC746TM8K	HP 8/8 (8)-port Enabled SAN Switch	1		
	HUB#7	AJ7168	N/A	HPE 8Bg Short Wave B-series Fibre Chanel 1 Pack SFP Transceiver	8		
5	HUB#8	C9300-24T	FOC2547Y246	CISCO Catalyst 9300 Switch HUB 24 Port, P/N : C9300-24T-E	1		
3	HUB#9	C9300-24T	FOC2547Y243	CISCO Catalyst 9300 Switch HUB 24 Port, P/N : C9300-24T-E	1		
		K2R80A	2S6706B041	HPE SAN Storage (HPE MSA 2040 ES SAN DC SFF Storage)	1		
	ST#1	J9F48A	-	HPE MSA 1.2TB 12G SAS 10K 2.5in ENT Hard Disk Drive	20		
6		HPE-QK734A	N/A	HP Preier Flex LC/LC Multi-mode OM4 2 fiber 5 m Cable	8		
		HPE-C8R23A	N/A	HP MSA 2040 8Gb Short Wave Fibre Channel SFP+ 4-pack Transceiver	2		
	ESXi#1	HPE DL380 Gen9	SGH746TJD9	HPE DL380 Gen9 E5-2687Wv4 CTO Server P/N : 719064-B21	1		
	ESXi#2	HPE DL380 Gen9	SGH746TJDJ	HPE DL380 Gen9 E5-2687Wv4 CTO Server P/N : 719064-B21	1		
7	ESXi#3	HPE DL380 Gen9	SGH746TJDB	HPE DL380 Gen9 E5-2687Wv4 CTO Server P/N : 719064-B21	1		
	ESXi#4	HPE DL380 Gen9	SGH746TJDD	HPE DL380 Gen9 E5-2687Wv4 CTO Server P/N : 719064-B21	1		
	ESXi#5	HPE DL380 Gen9	SGH746TJDF	HPE DL380 Gen9 E5-2687Wv4 CTO Server P/N : 719064-B21	1		
8	ST#2	20722N4	781L4E5	IBM Flash System 5015 SFF Control Enclosure (1P) IBM P/N: 03GU558 (S) IBM S/N: YM10BG1CH00X Date of Manufacture: 2021-12-17	1		
-		Flash Drive 1.92TB	N/A	1.92TB 12 Gb SAS 2.5 Inch Flash Drive	12		
		Fibre Transceiver	N/A	16Gb FC 4 Port Adapter Card1	1		
9	ESXi#6	HPE DL385 Gen10	SGH209XG8R	HPE DL385 Gen10+ CTO Mod-X 8SFF Server P/N : P14278-B21	1		
Э	ESXi#7	HPE DL385 Gen10	SGH209XG8W	HPE DL385 Gen10+ CTO Mod-X 8SFF Server P/N : P14278-B21	1		

	Creation by :	Foster	Date :	31-10-2022	Title:	REV.	Date	Description
	0.000.00.00		Jule .	01.10.2022		B1	28-03-2022	Initial Issue
FOSTER	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
ENGINEERING						D1	31-10-2022	As built
ENGINEERING	Aproved by :	Jamras	Date :	31-10-2022	Hardware Equipment List 1			
	, ,							
	Customer :	Unilever i	nai Hoi	ding Limited				
Unilever	Due is at Non	PCL	Plant P	re-Weight	D 1 2/22			
	Project Nar	ne:	Syste		Page number : 8/63			
Unilever Thai Holding Limited			-,0.0					

Hardware Equipment List

Item No.	Equiment Name	Model Number	Serial Number	Description	Qt'y
	UPS#1	SMC RM 2U	-	APC Smart UPS,SMC 2U 3000VA 2.1KWatt P/N: SMC3000RMI2U	1
	UPS#2	SMC RM 2U	-	APC Smart UPS,SMC 2U 3000VA 2.1KWatt P/N: SMC3000RMI2U	1
40	UPS#3	SMC RM 2U	-	APC Smart UPS,SMC 2U 3000VA 2.1KWatt P/N: SMC3000RMI2U	1
10	UPS#5	SMC RM 2U	AS2121141944	APC Smart UPS,SMC 2U 3000VA 2.1KWatt P/N: SMC3000RMI2U	1
	UPS#6	SMC RM 2U	AS2121142209	APC Smart UPS,SMC 2U 3000VA 2.1KWatt P/N: SMC3000RMI2U	1
11	UPS#7	SMC RM 2U	AS2121142213	APC Smart UPS,SMC 2U 3000VA 2.1KWatt P/N: SMC3000RMI2U	1
11	UPS#4	SRT6KXLI	AS1741172403	APC Smart UPS SRT 6000VA/6kWatt Twr, P/N : SMC3000RMI2U	1
12	Cable Tray	N/A	N/A	Stainless Steel Basket Cable Trays	8
13	BPA-6612	N/A	N/A	AC. Power Distribution 12 Universal Outlet	5
14	KVM Extender	CE700A	-	USB KVM Extender Video up to 1920 x1200.	6
15	HP Thin Client T630	X4X22AA#AKL	-	T630/W10/32GF/8GR/W	15
16	Dell 29" Ultrawide	U2917W	-	Dell UltraSharp 29 Ultrawide Monitor - U2917W	5
17	WT-PWS-01 IND570		C137546761	Wieght controller 15 kg. with network interface, Version:IND570xx Harsh (SCK: T570xxH8000AC000Z4)	1
18	WT-PWS-01	High Presision Bench Platform	C138602410	Weight scaller 15 kg., Type:PBK989-AB15, SCK: PBK9890R4W3H205300	1
19	WT-PWS-02	IND570	C137546762	Wieght controller 120 kg. with network interface, Version:IND570xx Harsh (SCK: T570xxH8000AC000Z4)	1
20	WT-PWS-02	High Presision Bench Platform	C138604477	Weight scaller 120 Kg., Type:PBK989-B120, SCK: PBK9890R9F3H205300	1
21	WT-PWS-03	IND570	C137546763	Wieght controller 1500 kg. with network interface, Version:IND570xx Harsh (SCK: T570xxH6000AC000Z4)	1
22	WT-PWS-03	High Presision Bench Platform	C138619492	Weight scaller 1500 Kg., Type:PFD779R1GBBE26PG0S, SCK: PBK9890Rxxxxxx	1
23	PNT-PWS-01	ZT411	99J220501253	ZEBRA Barcode Printer, P/N : ZT41142-T0P0000Z	1
24	PNT-PWS-02	ZT411	99J220501254	ZEBRA Barcode Printer, P/N : ZT41142-T0P0000Z	1
25	PNT-PWS-03	ZT411	99J220501280	ZEBRA Barcode Printer, P/N : ZT41142-T0P0000Z	1
26	PNT-INV-01	ZT411	99J220501278	ZEBRA Barcode Printer, P/N : ZT41142-T0P0000Z	1
27	SCN-PWS-01	Voyager 1250g	3K21140407	Honeywell Barcode Scanner, P/N : 1250G-2	1
28	SCN-PWS-02	Voyager 1250g	3K21140198	Honeywell Barcode Scanner, P/N : 1250G-2	1
29	SCN-PWS-03	BSC-3608-NI	21278523070705	BARTECH, Barcode Scanner, P/N: B7-A2S4-1HP0, Supply Module Type: B7-A2Z0-0042 S/N: 21/00431	1
30	PREW-PW03	DIMENSION QS5	-	PULS Power Supply, 24 VDC 120 W	1
31	OIT-PWS-01	IC758CSWA19PC64	R835338	EMERSON Rxi Panel PC, P/N : IC758CSWA19PC64-ABAB	1
32	OIT-PWS-02	IC758CSWA19PC64	R847649	EMERSON Rxi Panel PC, P/N : IC758CSWA19PC64-ABAB	1
33	OIT-PWS-03	IC758CSWA19PC64	R835339	EMERSON Rxi Panel PC, P/N : IC758CSWA19PC64-ABAB	1

	Creation by :	Foster	Date :	31-10-2022	Title:	REV.	Date	Description
						B1	28-03-2022	Initial Issue
FOSTER	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
ENGINEERING						D1	31-10-2022	As built
ENGINEERING	Aproved by :	Jamras	Date :	31-10-2022	Hardware Equipment List 2			
	C							
WAS SEE	Customer	Unilever i	nai Hoi	ding Limited				
Unilever	Drainet Non	PCL	Plant P	re-Weight	Dama manula na 0/00			
	Project Nar	ne: · · ·	Syste	Ū	Page number : 9/63			
Unilever Thai Holding Limited			-,					

Software List

Item No.	Part Number	Description	Qt'y
4	9EM-00124	WinSvr Std Core 2016 SNGL OLP 2Lic NL CoreLic	60
1	R18-05121	WinSvrCAL 2016 SNGL OLP NL DvcCAL	15
	228-11135#99543	SQLSvr Std 2017 SNGL OLP NL	5
2	359-06555#99543	SQLCAL 2017 SNGL OLP NL DvcCAL	15
3	PT-SQL-STD	SQL Server 2019 Standard Edition - Corporate	1
	VS6-STD-C	VMware vSphere 6 Standard for 1 processor	10
4	VCS6-STD-C	VMware vCenter Server 6 Standard for vSphere 6 (Per Instance)	1
5	ST6-VSAN-C	VMware Virtual SAN 6 Standard for 1 processor	10
_	VS7-ESP-KIT-C	VMware vSphere 7 Essentials Plus Kit for 3 hosts (Max 2 processors per host).	1
5	VS7-ESP-KIT-G-SSS-C	Production Support/Subscription for VMware vSphere 7Essentials Plus Kit for 3 hosts (Max 2 processors per host) for 1 year	1
6	V-VBRPLS-VS-PP000-00	Veeam Backup and Replication Enterprise Plus.	2
	12-12408	Upg. Intouch 2014R2 (Ver. 11.1) Runtime 60K Tag without I/O - PPSC01 S/N 626375-3, PPSC02 S/N 680437-3 - PPSC03 S/N 680438-3, PPSC04 S/N 680439-3 - PPSC05 S/N 680440-3, PPVW01 S/N 535535-3	6
	12-12404	Upg. Intouch 2014R2 (Ver. 11.1) Runtime 60K Tag with I/O (Sonolator) - PPVW02 S/N 491225-4	1
	12-12417	Upg. Intouch 2014R2 (Ver. 11.1) RT Ready-only 60K Tag without I/O - PP INV01 S/N 565505-3	1
	12-12391	Upg. Development Studio 2014R2 (Ver. 11.1) Unlimited, Unlim/60K/500 - PPSC01 S/N 1847530-0	1
	62-0158	Upg. InBatch Premier Edition, Medium (16-40 Units) to InBatch Server 2014R3 (Ver. 11.5), Large (Unlimited Units) for PPIB01 S/N 680421-2	1
1	62-0158	Upg. InBatch Premier Edition, Redundant Server, Medium to InBatch Server 2014R3 (Ver. 11.5), Large (Unlimited Units) for PPIB01 S/N 680422-1	1
	12-12884	Upg. InBatch Runtime Client 2014R3 (Ver. 11.5) - PPSC01 S/N 680423-3, PPSC02 S/N 680424-3 - PPSC03 S/N 680425-3, PPSC04 S/N 680426-3 - PPSC05 S/N 726819-3	5
4	62-0164	InBatch Runtime Client 2014R3 (Ver. 11.5) - PPVW01 S/N 1850022-0, PPVW02 S/N 1850023-0	2
•	12-12500	Upg, Device Integration Servers 2014R2 - PPSC01 S/N 1324685-2, PPSC02 S/N 1324686-2 - PPSC03 S/N 1324687-2, PPSC04 S/N 1324688-2 - PPSC05 S/N 1324689-2, PPVW01 S/N 1324690-2	6
	12-12504	Upg, Wonderware Historian 2014R2 (Ver. 11.6) Standard 500 Tag S/N 1279637-2	1
	17-1366	Wonderware Historian Client 2014R2 (10.6) Per Device - PPVW01 S/N 1850024-0, PPVW02 S/N1850025-0	2
	17-1367	Wonderware Historian Client 2014R2 (10.6) Per Device, 5 Pack - PPSC01 S/N 1850033-0, PPSC02 S/N 1850034-0 - PPSC03 S/N 1850035-0, PPSC04 S/N 1850036-0 - PPSC05 S/N 1850037-0	1
	17-0265	Wonderware CAL with MS CAL Runtime, Single SQL 2012 Std - PPVW01 S/N 1850031-0, PPVW02 S/N1850032-0	2
	17-1366	Wonderware CAL with MS CAL Runtime, 5 Pack, Single SQL 2012 Std - PPSC01 S/N 1850026-0, PPSC02 S/N 1850027-0 - PPSC03 S/N 1850028-0, PPSC04 S/N 1850029-0 - PPSC05 S/N 18500300	1

	Creation by :	Foster	Date:	31-10-2022	Title :	REV.	Date	Description
						B1	28-03-2022	Initial Issue
FOSTER	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
ENGINEERING						D1	31-10-2022	As built
	Aproved by :	Jamras	Date :	31-10-2022	Software List			
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	Customer :	Unilever i	nai Hoi	ding Limited				
6569								
Unilever	Drainet Non	PCL	Plant F	re-Weight	Danie www.ban. 40/00			
Unilever Thai Holding Limited	Project Nar	ne:	Svst	U	Page number : 10/63			
Unilever That Holding Limited			-,	•				



VMware License Confirmation

Issue Date: 19 Oct 2017 VST ECS Ref: 2017103384

Reseller:

Foster Engineering Co.Ltd. Reseller Ref: 20171017003

Issued to:

Unilever Thai Holdings Limited

Ladkrabung Industrial Estate,63 Moo 4 Chalongkrung Road, Lamplatiew, Lardkrabung, Bangkok 10520 Thailand

Dear Customer

Thank you for your order to VMware.

We herewith confirm that your order has been processed and you are now entitled for the License listed below.

Product Code.	Product Name / Description	Otv.
ST6-VSAN-C	VMware Virtual SAN 6 Standard for 1 processor	10
ST6-VSAN-P-SSS-C	(part)Production Support Coverage VMware Virtual SAN 6 for 1 processor	10
VCS6-STD-C	VMware vCenter Server 6 Standard for vSphere 6 (Per Instance)	1
VCS6-STD-P-SSS-C	Production Support/Subscription VMware vCenter Server 6 Standard for vSphere 6 (Per Instance) for 1 year	1
VS6-STD-C	VMware vSphere 6 Standard for 1 processor	10
VS6-STD-P-SSS-C	Production Support/Subscription VMware vSphere 6 Standard for 1 processor for 1 year	10

If you have any questions about this Confirmation, please contact us at VMware@vstecs.co.th

Best regards,

Boonchai Asawachaisuvikom SVP, Sales & Marketing

VST ECS (Thailand) Co., Ltd.

	Creation by :	Foster	Date :	31-10-2022	Title :	REV.	Date	Description
	0.000.00.00		Jule .	002022		B1	28-03-2022	Initial Issue
FOSTER	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
ENGINEERING					VMWare Licenses 1	D1	31-10-2022	As built
	Aproved by :	Jamras	Date :	31-10-2022	Ordered Year 2017			
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	Customer	Unilever i	nai Hoi	ding Limited				
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	Project Nar	ne: . o-	Syste	•	Page number: 11/63			
Unilever Thai Holding Limited	1		3,30	•				



VMware

License Purchase Information

VMware Order Number: 24033866

License Confirm Date: OCTOBER 20, 2017 VST ECS Purchase Order: 2017103384

Reseller:

Foster Engineering Co.Ltd.

Issued to:

Unilever Thai Holdings Limited

Ladkrabung Industrial Estate,63 Moo 4 Chalongkrung Road, Lamplatiew, Lardkrabung, Bangkok 10520 Thailand

Product	SKU	Qty.
VMware vSAN 6 Standard for 1 processor	ST6-VSAN-C	10
Serial Numbers/Activation Code (s):	5N0A3-D7H4L-L887E-0ZAH	M-986PN
VMware vCenter Server 6 Standard for vSphere 6 (Per Instance)	VCS6-STD-C	1
Serial Numbers/Activation Code (s):	MN020-4C0E4-Q8W93-0LC	02-8XH24
VMware vSphere 6 Standard for 1 processor	VS6-STD-C	10
Serial Numbers/Activation Code (s):	J0630-8W35M-Q8R85-0Z9F	ζ0-1R804

	Creation by :	Foster	Date :	31-10-2022	Title :	REV.	Date	Description
	0.000.00.00		-	01.10.2022		B1	28-03-2022	Initial Issue
FOSTER	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
ENGINEERING					VMWare Licenses 2	D1	31-10-2022	As built
	Aproved by :	Jamras	Date :	31-10-2022	Ordered Year 2017			
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	C							
	Customer	Unilever i	nai Hoi	ding Limited				
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	Project Nar	ne:	Syst	•	Page number : 12/63			
Unilever Thai Holding Limited	1		Jyou	•				

VMware License Confirmation

Issue Date: 29 Nov 2021 VST ECS Ref: 20211108440

Reseller:

Quickserv Provider Co.,Ltd. Reseller Ref: PO64112904

Issued to:

Unilever Thai Holdings Ltd

Ladkrabung Industrial Estate 63 Moo 4 Chalongkrung Road Lamplatiew, Lardkrabung, Bangkok 10520

Dear Customer

Thank you for your order to VMware.

We herewith confirm that your order has been processed and you are now entitled for the License listed below.

Product Code.	Product Name / Description	Qty.
VS7-ESP-KIT-C	VMware vSphere 7 Essentials Plus Kit for 3 hosts (Max 2 processors per host)	1
VS7-ESP-KIT-G-SSS-C	Basic Support/Subscription for VMware vSphere 7 Essentials Plus Kit for 3 hosts (Max 2 processors per host) for 1 year	1

If you have any questions about this Confirmation, please contact us at VMware@vstecs.co.th

Best regards,

Boonchai Asawachaisuvikom EVP, Sales & Marketing

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VST ECS (Thailand) Co., Ltd.

	Creation by :	Foster	Date :	31-10-2022	Title :	REV.	Date	Description
	0.000.00.00	1 00.0.		01.10.2022		B1	28-03-2022	Initial Issue
FOSTER	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
ENGINEERING					VMWare Licenses 3	D1	31-10-2022	As built
	Aproved by :	Jamras	Date :	31-10-2022	Ordered Year 2021			
	C		9 ! ! ! - !					
	Customer	Unilever i	nai Hoi	ding Limited				
Unilever	Duningt No.	PCL	Plant F	re-Weight	B 1 10100			
	Project Nar	ne:	Syst	•	Page number : 13/63			
Unilever Thai Holding Limited	1		٠,٠٠	····		I	1	

VMware

License Purchase Information

VMware Order Number: 25507328

License Confirm Date: NOVEMBER 29, 2021

VST ECS Purchase Order: 20211108440

Reseller:

Quickserv Provider Co.,Ltd. Reseller Ref: PO64112904

Issued to:

Unilever Thai Holdings Ltd

Ladkrabung Industrial Estate 63 Moo 4 Chalongkrung Road Lamplatiew, Lardkrabung, Bangkok 10520

Product(s) Purchased:

Product	SKU	Qty.	
VMware vSphere 7 Essentials Plus for 1 processor	VS7-ESP-C	6	
Serial Numbers/Activation Code (s):	05496-4JK91-181GW-0TAH2-	C9VQN	
VMware vCenter Server 7 Essentials for vSphere 7	VCS7-ESSL-C	1	
Serial Numbers/Activation Code (s):	N129M-4724Q-N81G2-039R6-A115N		

	Creation by :	Foster	Date :	31-10-2022	Title:	REV.	Date	Description
	0.00			0 2022		B1	28-03-2022	Initial Issue
FOSTER	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
ENGINEERING					VMWare Licenses 4	D1	31-10-2022	As built
	Aproved by :	Jamras	Date :	31-10-2022	Ordered Year 2021			
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	Customer :	Unilever	nai Hoi	ding Limited				
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Unilever Thai Holding Limited	Project Nar	ne:	Syst		Page number : 14/63			
Unilever Thai Holding Limited			-,					

Veeam License Confirmation

Issue Date: 29 Nov 2021 VST ECS Ref: 20211108643

Reseller:

Quickserv Provider Co.,Ltd. Reseller Ref : PO64112904

Issued to:

Unilever Thai Holdings Ltd

Ladkrabung Industrial Estate 63 Moo 4 Chalongkrung Road Lamplatiew, Lardkrabung, Bangkok 10520

Dear Customer

Thank you for your order to Veeam.

We herewith confirm that your order has been processed and you are now entitled for the License listed below.

Product Code.

Product Name / Description

Otv.

V-VBRPLS-VS-PP000-00 Veeam Backup and Replication Enterprise Plus

9

If you have any questions about this Confirmation, please contact us at Veeam@vstecs.co.th

Best regards,

Boonchai Asawachaisuvikom

EVP, Sales & Marketing

Boonchey Son be

VST ECS (Thailand) Co., Ltd.

FOSTER
ENGINEERING

Creation by :	Foster	Date :	31-10-2022
Checked by :	Foster	Date :	31-10-2022
Aproved by :	Jamras	Date :	31-10-2022

VMWare & Veeam Licenses	1
Ordered Year 2021	

REV.	Date	Description
B1	28-03-2022	Initial Issue
C1	28-08-2022	Construction
D1	31-10-2022	As built

Unilever	

Customer: Unilever Thai Holding Limited

Project Name:

PCL Plant Pre-Weight System Page num

Title:

Page number: 15/63

Additional

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AA46B34B

Cloud Connect=No

Company=Unilever Thai Holdings

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E-mail=varunyou.smerasuta@unilever.com

Edition=Enterprise Plus

License ID=85E284E2-2FAE-DBE2-0B07-BBF89BE4BB45

License type=Perpetual

Package=Backup

Sockets=2

Support ID=02599313

Support expires=29/11/2022

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- 1	ENGINEERING					VMWare & Veeam Licenses 2	D1	31-10-2022	As built
- 1	ENGINEERING	Aproved by :	Jamras	Date :	31-10-2022				
L		, ,				Ordered Year 2021			
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- 1		Customer :	Unilever T	hai Holo	ding Limited				
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- 1	Unilever		PCL	Plant P	re-Weight				
- 1		Project Nar	ne:	Syste	U	Page number : 16/63			
- 1	Unilever Thai Holding Limited			Jyou	····				·

Microsoft Open License Purchase Order 2017103869 Confirmation

Authorization Number: 99180096ZZS1910

· License Number: 69001597

• Distributor Purchase Order Number: 2017103869

License Date: 2017-10-24

Agreement Information: Z Standard

Reorder/Software Assurance End Date: 2019-10-31

· Indirect Reseller: Foster Engineering Co.,Ltd.

Licensee

· Unilever Thai Holdings Limited

Ladkrabung Industrial Estate,63 Moo4 Chalongkrung Rd, Lamplatiew Lardkrabung,Bangkok . 10520 Thailand

Line Items

Product Description	Microsoft Part Number	Version	Quantity
Microsoft®Windows®ServerCAL 2016 Sngl OLP 1License NoLevel DvcCAL	R18-05121	2016	15
Microsoft®WindowsServerSTDCORE 2016 Sngl OLP 2Licenses NoLevel CoreLic	9EM-00124	2016	60

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		Creation by :	Foster	Date :	31-10-2022	Title:	REV.	Date	Description
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ENGINEER	STER	Checked by :	Microsoft Licenses	Date :	31-10-2022		C1	28-08-2022	Construction
	GINEEBING			Microsoft Licenses 1	D1	31-10-2022	As built		
		Aproved by :		Date :	Date: 31-10-2022	Ordered Year 2017			
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	300	Customer: Unilever Thai Holding Limited							
	Unilever		Project Name . PCL Plant Pre-Weight						
l	Unilever Thai Holding Limited	Project Nar	ne:	Syst	•	Page number : 17/63			
l un		1		-,					

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Microsoft CSP License Confirmation

Dear Customer,

Thank you for your order Microsoft CSP License from Synnex (Thailand) Public Company Limited Now your services have been provision and you can check process and credential for access your service by email confirmation.

For details and order information. Please see "Order Information" and "Order detail" below.

Order Information

PO Ref: PORQ220403176

Reseller: QUICKSERV PROVIDER CO.,LTD.

Ref: PO220428002

End User: Unilever Thai Holdings Limited

Address: Ladkrabung Industrial Estate, 63 Moo 4 Chalongkrung Road, Lamplatiew, Lardkrabung, Bangkok

Order Detail

Part no.	Product Description	Qty.	
PT-SQL-STD	SQL Server 2019 Standard Edition - Corporate		

Period Date:

If you have any questions about order confirmation or license detail. Please contact us at MSOFT-CLOUD@synnex.co.th

เตรทะเบียน บลง. 0107550000203 Public Company Registration No. 0107550000203









433 การนยุคมระเวิร์ดี แลวน/เสเพราะเพราา กรุงเพพา 10230 โพร. 0-2553-8888 แพ้กซี. 0-2578-8181. ผ้าแนาย 0-2790-9999 แพ้กซี. 0-2553-8891-3, ผ้าแบริการ 0-2553-8899 แพ้กซี. 0-2578-8195 433 Sukhonihasawat Road, Lat Phrao, Bangkok 10230 Tel. 0-2553-6888 Fax. 0-2578-8185. Sales 0-2730-9999 Fax. 0-2553-6891-3, Service 0-2553-6899 Fax. 0-2553-6899

	Creation by :	Foster	Date :	31-10-2022	Title :	REV.	Date	Description
	,			** ***		B1	28-03-2022	Initial Issue
FOSTER	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
ENGINEERING					Microsoft Licenses 2	D1	31-10-2022	As built
ENGINEERING	Aproved by :	Jamras	Date :	31-10-2022				
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Unilever Unilever Thai Holding Limited	Customer: Unilever Thai Holding Limited			aing Limitea				
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	Project Nar	ne:	Syst	•				
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Sever Host System Overview



Creation by :	Foster	Date :	31-10-2022
Checked by :	Foster	Date :	31-10-2022
Aproved by :	Jamras	Date :	31-10-2022



Customer :	Unilever Thai Holding Limited

Project Name:

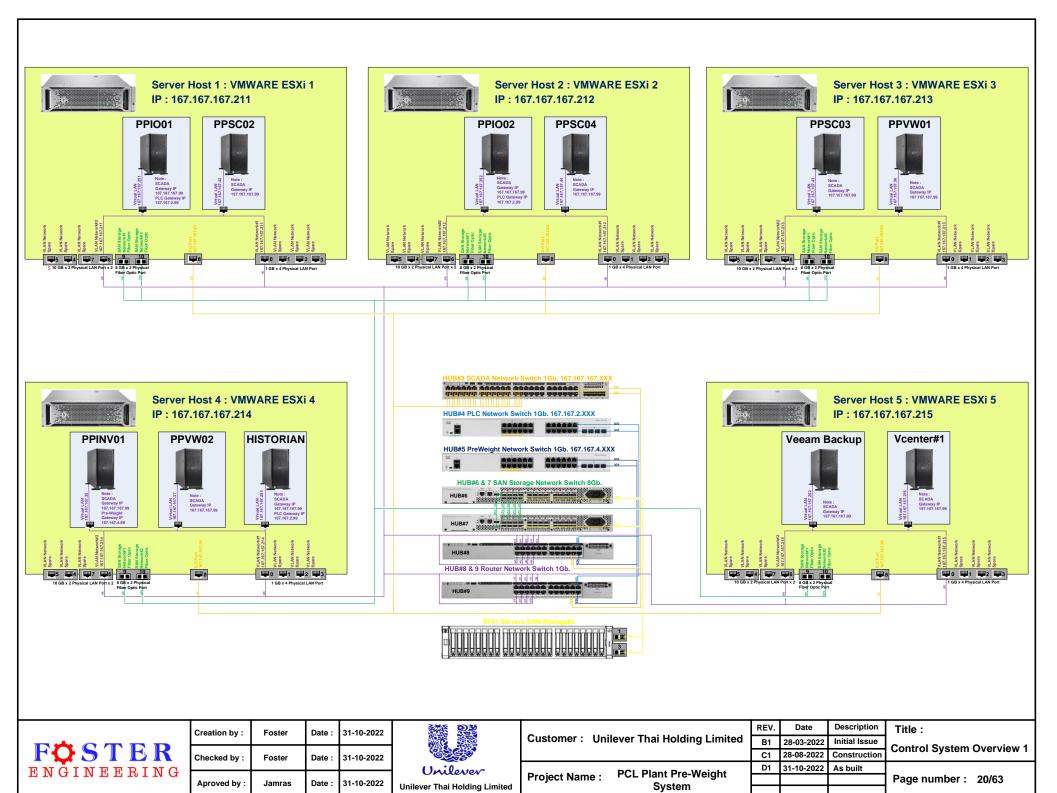
PCL Plant Pre-Weight

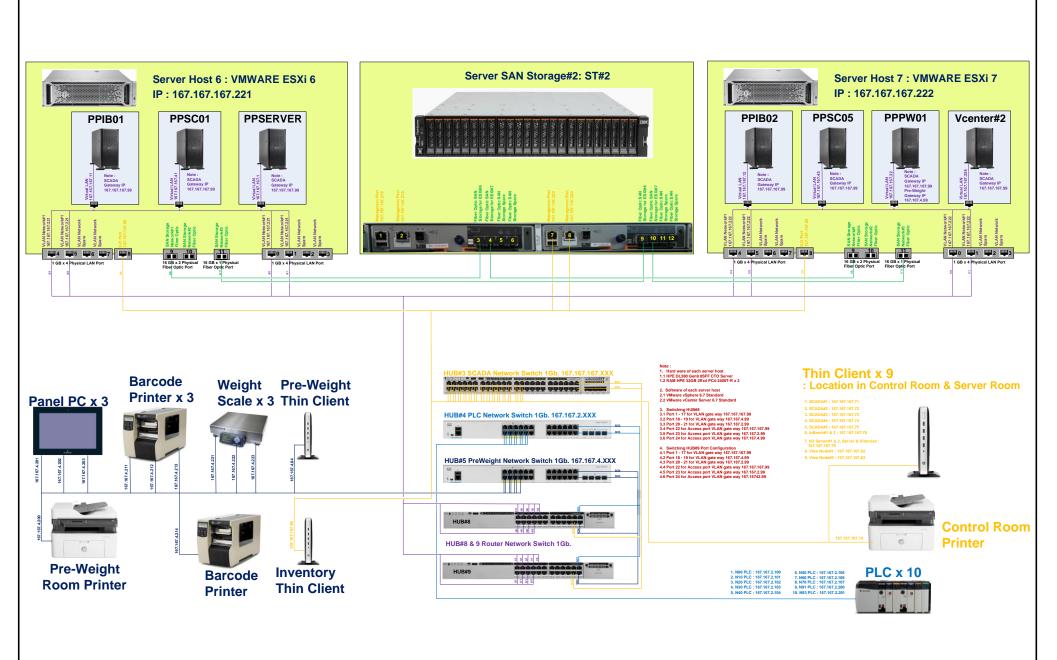
System

•	Description	Date	REV.
	Initial Issue	28-03-2022	B1
	Construction	28-08-2022	C1
	As built	31-10-2022	D1
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litle :	
Server Host System	
Overview Cover Sheet	
010111011 00101 011001	

Page number : 19/63





FOSTER
ENGINEERING

Creation by :	Foster	Date :	31-10-2022	
Checked by :	Foster	Date :	31-10-2022	
Aproved by :	Jamras	Date :	31-10-2022	



	Customer : Uni	lever Thai Holding Limited
Inilever	Project Name :	PCL Plant Pre-Weight

Project Name :	PCL Plant Pre-Weight System
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REV.	Date	Description	Title :
B1	28-03-2022	Initial Issue	Control System Overview 2
C1	28-08-2022	Construction	Control System Overview 2
D1	21-10-2022	Ac built	

Page number: 21/63

Server Host 1 : VMWARE ESXi 1 IP : 167.167.167.211



- 1. CPU: 3.0 Ghz 12 Cores x 2
- 2. RAM: 64 GB
- 3. Host Name: ESXi-1
- 4. vmk0 Management Network
- VLAN ID: 1677 (Management Network)
- TCP/IP Stack : Default
- Enabled services : Management
- DHCP : Disable
- IPv4 address : 167.167.167.211 (Static)
- Subnet mask : 255.255.255.0
- Default gateway : 167.167.167.99
- Pre. DSN server address : 192.168.1.254
- Alt. DSN server address : 203.146.237.237

Host Configuration:

- Network Port 0 & 6 (Management) (Management IP: 167.167.167.211)
- Network Speed : 1,000 Mbps
- IPv6 DHCP: Disabled
- IPv6 auto-configuration : Disabled
- IPv6 address : N/A
- 5. vmk1 / vSwitch1 : vMotion
- TCP/IP Stack : Default - Enabled services : vMotion
- DHCP Disable

- IPv4 address : 192.168.1.1 (Static)
- Subnet mask : 255.255.255.0
- Default gateway : 167.167.167.99
- Pre. DSN server address : 192.168.1.254
- Alt. DSN server address: 203.146.237.237 - Network Port 0 & 6 (vMotion)
- Network Speed: 1,000 Mbps
- 6. vSwitch2 : Veeam Backup VLAN ID : 1677
- Network Port 3 & 7 (Management)
- Network Speed: 1,000 Mbps
- 7. Vmware Version : 6.7.0 Update 3 (Build 19195723)
- 8. Client Version : 1.33.4 (Build 14093553)





167.167.167.42

PPIO01 Configuration:

- 1. CPU: 3.0 Ghz 64 Bits 8 Core
- 2. RAM : 16 GB
- 3. Hard Disk - C : 500 GB
 - E: 1.000 GB
- 4. VDO Adapter 1 & 2: 1024 x 768
- 5. Computer Name: PPIO01
- 6. VLAN Network
- Speed : 1,000 Mbps
- IP Adress : 167.167.167.51
- Subnet mask : 255.255.255.0
- Gateway : 167.167.167.99
- 7. Operating System (OS)
- Microsoft widows server 2012 R2
- standard and data center (64 bits)
- 8. Application software
- Wonderware
- Wonderware DA Server : DASABCIP Version 5.0
- NetFramework 4.5

PPSC02 Configuration:

- 1. CPU: 3.0 Ghz 64 Bits 8 Core
- 2. RAM : 16 GB
- 3. Hard Disk
 - C: 500 GB
 - E: 1,000 GB
- 4. VDO Adapter 1 & 2:1024 x 768
- 5. Computer Name : PPSC02
- 6. VLAN Network
- Speed: 1,000 Mbps
- IP Adress : 167.167.167.42
- Subnet mask : 255.255.255.0
- Gateway : 167.167.167.99
- 7. Operating System (OS)
- Microsoft widows server 2012 R2 standard and data center (64 bits)
- 8. Application software
- Wonderware :
 - InTouch 2014R2 (InTouch 11.1.19)
- InBatch Runtime Client 2014R3 SP1
- Wonderware DA Server : DADABCIP Version 5.0
- Historian Client 2014R2
- Standard 500 tags
- NetFramework 4.5

FOSTER
ENGINEERING

Creation by :	Foster	Date :	31-10-2022
Checked by :	Foster	Date :	31-10-2022
Aproved by :	Jamras	Date :	31-10-2022



Customer :	Unilever Thai Holding Limited	_
	. PCL Plant Pre-Weight	
Project Name	. I OE I lant I le-Weight	

ai Holding Limited	REV.	Date	Description	Title :		
	B1	28-03-2022	Initial Issue	Server Host 1:VMWARE		
	C1	28-08-2022	Construction	ESXi-1		
lant Pre-Weight System	D1	31-10-2022	As built			
				Page number : 22/63		

Server Host 2: VMWARE ESXi 2 IP: 167.167.167.212



- 1. CPU: 3.0 Ghz 12 Cores x 2
- 2. RAM: 64 GB
- 3. Host Name: ESXi-2
- 4. vmk0 Management Network
- VLAN ID : 1677 (Management Network)
- TCP/IP Stack : Default
- Enabled services : Management
- DHCP : Disable
- IPv4 address : 167.167.167.212 (Static)
- Subnet mask : 255.255.255.0
- Default gateway : 167.167.167.99 - Pre. DSN server address: 192.168.1.254
- Alt. DSN server address : 203.146.237.237

- - Network Port 0 & 6 (Management) (Management IP: 167.167.167.212)

Host Configuration:

- Network Speed: 1,000 Mbps
- IPv6 DHCP: Disabled
- IPv6 auto-configuration : Disabled
- IPv6 address : N/A
- 5. vmk1 / vSwitch1 : vMotion
- TCP/IP Stack : Default
- Enabled services : vMotion
- DHCP Disable

- IPv4 address: 192.168.1.2 (Static)
- Subnet mask : 255.255.255.0
- Default gateway : 167.167.167.99
- Pre. DSN server address : 192.168.1.254 - Alt. DSN server address : 203.146.237.237
- Network Port 0 & 6 (vMotion)
- Network Speed: 1.000 Mbps
- 6. vSwitch2 : Veeam Backup
- VLAN ID: 1677
- Network Port 3 & 7 (Management)
- Network Speed: 1,000 Mbps
- 7. Vmware Version: 6.7.0 Update 3 (Build 19195723)
- 8. Client Version: 1.33.4 (Build 14093553)





167.167.167.44

PPIO01 Configuration:

1. CPU: 3.0 Ghz 64 Bits 8 Core

2. RAM: 16 GB 3. Hard Disk

> - C: 500 GB - E: 1.000 GB

- 4. VDO Adapter 1 & 2: 1024 x 768
- 5. Computer Name : PPIO01
- 6. VLAN Network
- Speed : 1,000 Mbps
- IP Adress : 167.167.167.52
- Subnet mask: 255.255.255.0
- Gateway: 167.167.167.99
- 7. Operating System (OS)
- Microsoft widows server 2012 R2 standard and data center (64 bits)
- 8. Application software
- Wonderware
- Wonderware DA Server : **DASABCIP Version 5.0**
- NetFramework 4.5

PPSC04 Configuration:

1. CPU: 3.0 Ghz 64 Bits 8 Core

2. RAM: 16 GB 3. Hard Disk

- C: 500 GB

- E: 1.000 GB

4. VDO Adapter 1 & 2: 1024 x 768

5. Computer Name: PPSC04

6. VLAN Network

- Speed: 1,000 Mbps

- IP Adress: 167.167.167.44

- Subnet mask : 255.255.255.0

- Gateway: 167.167.167.99

7. Operating System (OS)

- Microsoft widows server 2012 R2 standard and data center (64 bits)

8. Application software

- Wonderware :

- InTouch 2014R2 (InTouch 11.1.19)
- InBatch Runtime Client 2014R3 SP1
- Wonderware DA Server : **DADABCIP Version 5.0**
- Historian Client 2014R2
- Standard 500 tags - NetFramework 4.5

FOSTER	
ENGINEERING	

Creation by :	Foster	Date :	31-10-2022
Checked by :	Foster	Date :	31-10-2022
Aproved by :	Jamras	Date :	31-10-2022



Customer : Unilever Thai Holding Limited		REV.	Date	Description	Title :
		B1	28-03-2022	Initial Issue	Server Host 2:VMWARE ESXi-2
		C1	28-08-2022	Construction	
Project Name : PCL Plant Pre-Weight		D1	31-10-2022	As built	
Project Name :	System				Page number : 23/63
System					

Server Host 3 : VMWARE ESXi 3 IP : 167.167.167.213



1. CPU: 3.0 Ghz 12 Cores x 2

2. RAM: 64 GB

3. Host Name: ESXi-3

4. vmk0 Management Network

- VLAN ID : 1677 (Management Network)

- TCP/IP Stack : Default

- Enabled services : Management

- DHCP : Disable

- IPv4 address : 167.167.167.213 (Static)

- Subnet mask : 255.255.255.0

- Default gateway : 167.167.167.99

- Pre. DSN server address : 192.168.1.254

- Alt. DSN server address : 203.146.237.237

Host Configuration:

- Network Port 0 & 6 (Management) (Management IP: 167.167.167.213)

- Network Speed : 1,000 Mbps

- IPv6 DHCP: Disabled

- IPv6 auto-configuration : Disabled

- IPv6 address : N/A

5. vmk1 / vSwitch1 : vMotion - TCP/IP Stack : Default

- Enabled services : vMotion

- DHCP Disable

- IPv4 address: 192.168.1.3 (Static)

- Subnet mask : 255.255.255.0

- Default gateway : 167.167.167.99

- Pre. DSN server address : 192.168.1.254

- Alt. DSN server address : 203.146.237.237

- Network Port 0 & 6 (vMotion)

- Network Speed : 1,000 Mbps 6. vSwitch2 : Veeam Backup

- VLAN ID: 1677

- Network Port 3 & 7 (Management)

- Network Speed: 1,000 Mbps

7. Vmware Version : 6.7.0 Update 3 (Build 19195723)

8. Client Version : 1.33.4 (Build 14093553)





167.167.167.36

PPSC03 Configuration:

1. CPU: 3.0 Ghz 64 Bits 8 Core

2. RAM: 16 GB 3. Hard Disk

ard DISK - C : 500 GB - E : 1,000 GB

4. VDO Adapter 1 & 2: 1024 x 768

5. Computer Name: PPSC03

6. VLAN Network

- Speed: 1,000 Mbps

- IP Adress : 167.167.167.43

- Subnet mask : 255.255.255.0

- Gateway : 167.167.167.99

7. Operating System (OS)

 Microsoft widows server 2012 R2 standard and data center (64 bits)

8. Application software

- Wonderware :

- InTouch 2014R2 (InTouch 11.1.19)

- InBatch Runtime Client 2014R3 SP1

- Wonderware DA Server : DADABCIP Version 5.0

- Historian Client 2014R2 Standard 500 tags

- NetFramework 4.5

PPVW01 Configuration :

1. CPU: 3.0 Ghz 64 Bits 8 Core

2. RAM: 16 GB 3. Hard Disk

> - C: 500 GB - E: 1.000 GB

4. VDO Adapter 1 & 2: 1024 x 768

5. Computer Name: PPVW01

6. VLAN Network

- Speed: 1,000 Mbps

- IP Adress : 167.167.167.36

- Subnet mask : 255.255.255.0

- Gateway : 167.167.167.99

7. Operating System (OS)

- Microsoft widows server 2012 R2 standard and data center (64 bits)

8. Application software

- Wonderware :

- InTouch 2014R2 (InTouch 11.1.19) InBatch Runtime Client 2014R3 SP1

- Wonderware DA Server : DADABCIP Version 5.0

- Historian Client 2014R2 Standard 500 tags

- NetFramework 4.5

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Creation by :	Foster	Date :	31-10-2022
Checked by :	Foster	Date :	31-10-2022
Aproved by :	Jamras	Date :	31-10-2022



		REV.	Date	Description	Title :
Customer: Unilever Thai Holding Limited		B1	28-03-2022	Initial Issue	Server Host 3:VMWARE ESXi-3
		C1	28-08-2022	Construction	
	PCL Plant Pre-Weight	D1	31-10-2022	As built	
Project Name :	System				Page number : 24/63
	System				

Server Host 4: VMWARE ESXi 4 IP: 167.167.167.214



1, CPU: 3.0 Ghz 12 Cores x 2

2. RAM: 64 GB

3. Host Name: ESXi-4

4. vmk0 Management Network

- VLAN ID: 1677 (Management Network)

- TCP/IP Stack : Default

- Enabled services : Management

- DHCP : Disable

- IPv4 address : 167.167.167.214 (Static)

- Subnet mask: 255,255,255.0

- Default gateway: 167.167.167.99 - Pre. DSN server address: 192.168.1.254

- Alt. DSN server address : 203.146.237.237

Host Configuration:

- Network Port 0 & 6 (Management) (Management IP: 167.167.167.214)

- Network Speed: 1,000 Mbps

- IPv6 DHCP : Disabled

- IPv6 auto-configuration : Disabled

- IPv6 address : N/A

5. vmk1 / vSwitch1 : vMotion

- TCP/IP Stack : Default

- Enabled services : vMotion

- DHCP Disable

- IPv4 address: 192.168.1.4 (Static)

- Subnet mask : 255.255.255.0 - Default gateway : 167.167.167.99

- Pre. DSN server address: 192.168.1.254

- Alt. DSN server address : 203.146.237.237

- Network Port 0 & 6 (vMotion)

- Network Speed: 1,000 Mbps 6. vSwitch2 : Veeam Backup

- VLAN ID: 1677

- Network Port 3 & 7 (Management)

- Network Speed: 1,000 Mbps

7. Vmware Version: 6.7.0 Update 3 (Build 19195723)

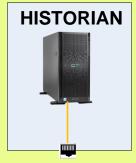
8. Client Version: 1.33.4 (Build 14093553)







167.167.167.37



167.167.167.253

PPVW02 Configuration:

1, CPU: 3.0 Ghz 64 Bits 4 Core

2. RAM: 16 GB

3. Hard Disk

- C: 500 GB - E: 1.000 GB

4. VDO Adapter 1 & 2:1024 x 768

5. Computer Name: PPINV01

6. VLAN Network

- Speed: 1,000 Mbps

- IP Adress: 167.167.167.35

- Subnet mask: 255.255.255.0

- Gateway: 167.167.167.99

7. Operating System (OS)

- Microsoft widows server 2012 R2 standard and data center (64 bits)

8. Application software

- Wonderware

- InTouch 2014R2 (InTouch 11.1.19)

- NetFramework 4.5

PPVW02 Configuration:

1, CPU: 3.0 Ghz 64 Bits 8 Core

2. RAM: 16 GB

3. Hard Disk

- C: 500 GB

- E: 1.000 GB

4. VDO Adapter 1 & 2: 1024 x 768

5. Computer Name: PPVW02

6. VLAN Network

- Speed: 1,000 Mbps

- IP Adress: 167.167.167.37

- Subnet mask: 255,255,255.0

- Gateway: 167.167.167.99

7. Operating System (OS)

- Microsoft widows server 2012 R2 standard and data center (64 bits)

8. Application software

- Wonderware :

- InTouch 2014R2 (InTouch 11.1.19) InBatch Runtime Client 2014R3 SP1

Project Name:

- Wonderware DA Server : **DADABCIP Version 5.0**

- Historian Client 2014R2

Standard 500 tags

- NetFramework 4.5

HISTORIAN Configuration:

1. CPU: 3.0 Ghz 64 Bits 4 Core

2. RAM: 8 GB

3. 3. Hard Disk

- C: 500 GB

- E: 1.000 GB

4. VDO Adapter 1 & 2:1024 x 768

5. Computer Name : HISTORIAN

6. VLAN Network

- Speed: 1,000 Mbps

- IP Adress : 167.167.167.253

- Subnet mask : 255.255.255.0

- Gateway: 167.167.167.99

7. Operating System (OS)

- Microsoft widows server 2012 R2 standard and data center (64 bits)

8. Application software

- Wonderware :

- Wonderware DA Server : **DADABCIP Version 5.0**

- Historian Server 2014R2 Standard 500 tags

I REV I

Date

- NetFramework 4.5

FOSTER
ENGINEERING

Creation by :	Foster	Date :	31-10-2022
Checked by :	Foster	Date :	31-10-2022
Aproved by :	Jamras	Date :	31-10-2022



Unilever	

Customer :	Unilever Thai Holding Limited

PCL Plant Pre-Weight

System

IVE V.	Dute	2 000p	ritte:
B1	28-03-2022	Initial Issue	Server Host 4:VMWARE
C1	28-08-2022	Construction	ESXi-4
D1	31-10-2022	As built	
			Page number : 25/63

Description Title

Server Host 5: VMWARE ESXi 5 IP: 167.167.167.215



Veeam Backup

1. CPU: 3.0 GHz 12 Cores x 2

2. RAM: 64 GB

3. HPE HDD 1 TB SAS 7.2K x 6:6 TB

4. Host Name : ESXi5

5. vmk0 / vSwitch0 : Management Network

- VLAN ID: 1677 (Management Network)

- TCP/IP Stack : Default

- Enabled services : Management

- DHCP : Disable

- IPv4 address : 167.167.167.215 (Static)

- Subnet mask : 255.255.255.0

- Default gateway: 167.167.167.99

- Pre. DSN server address: 192.168.1.254

- Alt. DSN server address : 203.146.237.237

Host Configuration:

- Network Port 0 & 6 (Management) (Management IP: 167.167.167.215

- Network Speed: 1,000 Mbps

- IPv6 DHCP: Disabled

- IPv6 auto-configuration : Disable

- IPv6 address : N/A

7. vmk1 / vSwitch0 : Veam Backup Manage

- VLAN ID: 1677 (vlan1677Manage)

- TCP/IP Stack : Default

- Enabled services : Management

- DHCP Disable

- IPv4 address : 167.167.5.215 (Static)

- Subnet mask : 255.255.255.0

- Default gateway : 167.167.167.99

- Pre. DSN server address: 192.168.1.254

- Alt. DSN server address : 203.146.237.237

- Network Port 4 & 5

- Network Speed: 1,000 Mbps

- IPv6 DHCP : Disabled

- IPv6 auto-configuration : Disable

- IPv6 address : N/A

8. Vmware Version: 6.7.0 Update 3 (Build 19195723)

9. Client Version: 1.33.4 (Build 14093553)







167.167.167.216

Veeam Backup IP_252 Configuration :

1. CPU: 3.0 Ghz 8 Core

2. RAM: 16 GB

3. Hard Disk - C: 8.27 TB

4. VDO Adapter: 1024 x 768

5. Computer Name: vCenter

6. VLAN Network

- Speed: 1,000 Mbps

- IP Adress : 167.167.167.252 - Subnet mask: 255.255.255.0

- Gateway: 167.167.5.99

7. Operating System (OS)

- Microsoft widows server 2016

standard (64 bits)

8. Application software

- Veeam Backup & Replication 10.0

vCenter#1 Configuration:

1. CPU: 3.0 Ghz 2 Core

2. RAM: 10 GB

3. Hard Disk

- C: 64 GB

4. VDO Adapter 1 & 2: 1024 x 768

5. Computer Name: VCenter

6. VLAN Network

- Speed: 1,000 Mbps

- IP Adress: 167.167.167.216

- Subnet mask: 255.255.255.0

- Gateway: 167.167.167.99

7. Operating System (OS)

- Other 3.x Linux (64-Bit)

8. Application software

- VCenter 6.7

FOSTER
ENGINEERING

Creation by :	Foster	Date :	31-10-2022
Checked by :	Foster	Date :	31-10-2022
Aproved by :	Jamras	Date :	31-10-2022



Customer: Unilever Thai Holding Limited		REV.	Date	Description	Title : Server Host 5:VMWARE ESXi-5
		B1	28-03-2022	Initial Issue	
		C1	28-08-2022	Construction	
Project Name . PCL Plant Pre-Weight		D1	31-10-2022	As built	
Project Name :	System				Page number : 26/63

Server Host 6: VMWARE ESXi 6 IP: 167.167.167.221



- 1. CPU: AMD EPYC 7542 (2.9GHz/32-core x 2)
- 2. RAM: 192 GB
- 3. HPE SSD 480GB SATA x 2: 960 GB
- 4. Host Name : ESXi6
- 5. vmk0 / vSwitch0 : Management Network
- VLAN ID: 1677 (Management Network)
- TCP/IP Stack : Default
- Enabled services : Management
- DHCP : Disable
- IPv4 address : 167.167.167.221 (Static)
- Subnet mask : 255.255.255.0
- Default gateway: 167.167.167.99
- Alt. DSN server address: 203.146.237.237
- Pre. DSN server address : 192.168.1.254

Host Configuration:

- Network Port 0, 1, 4 & 5 (Management) (Management IP: 167.167.167.221)
- Network Speed : 1,000 Mbps
- IPv6 DHCP : Disabled
- IPv6 auto-configuration : Disabled
- IPv6 address : N/A
- 6. vmk1 / vSwitch1 : vMotion
- TCP/IP Stack : Default
- Enabled services : vMotion
- DHCP Disable

- IPv4 address: 192.168.1.1 (Static)
- Subnet mask : 255.255.255.0
- Default gateway : 167.167.167.99 - Pre. DSN server address : 192.168.1.254
- Alt. DSN server address : 203.146.237.237
- Network Port 5 (vMotion)
- Network Speed: 1,000 Mbps
- 7. vSwitch2 : Veeam Backup - VLAN ID: 1675
- Network Port 3 & 7 (Management)
- Network Speed: 1.000 Mbps
- 8. Vmware Version: 6.7.0 (Build 9484548)
- 9. Client Version: 1.33.4 (Build 14093553)







167.167.167.41

167.167.167.1

PPIB01 Configuration:

1. CPU: 2.9 Ghz 64 Bits 8 Core

- 2. RAM: 16 GB 3. Hard Disk
 - C: 492 GB
 - E: 500 GB
- 4. VDO Adapter 1 & 2: 1024 x 768
- 5. Computer Name: PPIB01
- 6. VLAN Network
- Speed: 1,000 Mbps
- IP Adress: 167.167.167.11
- Subnet mask : 255.255.255.0
- Gateway: 167.167.167.99
- 7. Operating System (OS)
- Microsoft widows server 2012 R2 standard and data center (64 bits)
- 8. Application software
- Wonderware
- InBatch Server 2014R3 SP1 (InBatch 11.5.1)
- NetFramework 4.5

PPSC01 Configuration:

- 1. CPU: 2.9 Ghz 64 Bits 8 Core
- 2. RAM: 32 GB
- 3. Hard Disk
 - C: 498 GB
 - E: 500 GB
- 4. VDO Adapter 1 & 2: 1024 x 768
- 5. Computer Name: PPSC01
- 6. VLAN Network
- Speed: 1.000 Mbps
- IP Adress : 167.167.167.41
- Subnet mask : 255.255.255.0
- Gateway: 167.167.167.99
- 7. Operating System (OS)
- Microsoft widows server 2012 R2 standard and data center (64 bits)
- 8. Application software
- Wonderware :
- InTouch 2014R2 (InTouch 11.1.19)
- InBatch Runtime Client 2014R3 SP1

Project Name:

- Wonderware DA Server : **DASABCIP Version 5.0**
- Historian Client 2014R2 Standard 500 tags
- NetFramework 4.5

PPSERVER Configuration:

- 1, CPU: 3.0 Ghz 64 Bits 16 Core
- 2. RAM: 32 GB
- 3. Hard Disk
 - C: 1024 GB
 - E: 1.000 GB
- 4. VDO Adapter 1 & 2: 1024 x 768
- 5. Computer Name: PPSERVER
- 6. VLAN Network
- Speed : 1.000 Mbps
- IP Adress: 167.167.167.1
- Subnet mask : 255.255.255.0
- Gateway: 167.167.167.99
- 7. Operating System (OS)
- Microsoft widows server 2012 R2 standard and data center (64 bits)
- 8. Application software
- Microsoft SQL server 2012 SP2 Standard (32/64 bit) or Microsoft SQL server 2014 Standard (32/64 bit)
- Wondwerware InBatch History server
- NetFramework 4.5

	Creation by :	Foster	Date :	31-10-2022
	Checked by :	Foster	Date :	31-10-2022
ENGINEERING	Aproved by :	Jamras	Date :	31-10-2022



Customer :	Unilever Thai Holding Limited

PCL Plant Pre-Weight

System

	REV.	Date	Description	Title :
d	B1	28-03-2022	Initial Issue	Server Host 6:VMWARE
	C1	28-08-2022	Construction	ESXi-6
	D1	31-10-2022	As built	
				Page number : 27/63

Server Host 6: VMWARE ESXi 7 IP: 167.167.167.222



PPIB02

1. CPU: AMD EPYC 7542 (2.9GHz/32-core x 2)

2. RAM: 192 GB

3. HPE SSD 480GB SATA x 2:960 GB

4. Host Name: ESXi6

5. vmk0 / vSwitch0 : Management Network

- VLAN ID: 1677 (Management Network)

- TCP/IP Stack : Default

- Enabled services : Management

- DHCP : Disable

- IPv4 address : 167.167.167.222 (Static)

- Subnet mask : 255.255.255.0

- Default gateway : 167.167.167.99

- Pre. DSN server address: 192.168.1.254

- Alt. DSN server address : 203.146.237.237

Host Configuration:

- Network Port 0 & 1 (Management)

- Network Port 2 (QNAP iSCSI Storage) (Management IP: 167.167.167.218)

(iSCSI IP: 167.167.167.219) - Network Speed: 1,000 Mbps

- IPv6 DHCP : Disabled - IPv6 auto-configuration : Disabled

- IPv6 address : N/A

6. vmk1 / vSwitch1 : vMotion - TCP/IP Stack : Default

- Enabled services : vMotion

PPPW01

- DHCP Disable

- IPv4 address : 192.168.1.1 (Static)

- Subnet mask : 255.255.255.0 - Default gateway: 167.167.167.99

- Pre. DSN server address : 192.168.1.254

- Alt. DSN server address: 203.146.237.237

- Network Port 5 (vMotion)

- Network Speed: 1.000 Mbps 7. vSwitch2 : Veeam Backup

- VLAN ID : 1675

- Network Port 3 & 7 (Management)

- Network Speed: 1,000 Mbps

8. Vmware Version : 6.7.0 (Build 9484548)

9. Client Version: 1.33.4 (Build 14093553)

167.167.167.12







167.167.167.32

167.167.167.226

PPIB02 Configuration:

1, CPU: 3.0 Ghz 64 Bits 8 Core

2. RAM: 16 GB 3. Hard Disk

> - C: 496 GB - E: 300 GB

4. VDO Adapter 1 & 2: 1024 x 768

5. Computer Name: PPIB02

6. VLAN Network

- Speed: 1,000 Mbps

- IP Adress : 167.167.167.12

- Subnet mask: 255,255,255.0

- Gateway: 167.167.167.99

7. Operating System (OS)

- Microsoft widows server 2012 R2 standard and data center (64 bits)

8. Application software

- Wonderware

- InBatch Server 2014R3 SP1 (InBatch 11.5.1)

- NetFramework 4.5

PPSC05 Configuration:

1, CPU: 2.9 Ghz 64 Bits 8 Core

2. RAM: 32 GB 3. Hard Disk

- C: 498 GB

- E: 300 GB

4. VDO Adapter 1 & 2: 1024 x 768

5. Computer Name: PPSC05

6. VLAN Network

- Speed: 1,000 Mbps

- IP Adress : 167.167.167.45

- Subnet mask: 255,255,255.0

- Gateway: 167.167.167.99

7. Operating System (OS)

- Microsoft widows server 2012 R2 standard and data center (64 bits)

8. Application software

- Wonderware :

- InTouch 2014R2 (InTouch 11.1.19)

- InBatch Runtime Client 2014R3 SP1

- Wonderware DA Server : **DASABCIP Version 5.0**

- Historian Client 2014R2 Standard 500 tags

- NetFramework 4.5

PPPW01 Configuration:

1. CPU: 2.9 Ghz 8 Core

2. RAM: 32 GB 3. Hard Disk

- C: 1.000 GB

4. VDO Adapter: 1024 x 768

5. Computer Name: PPPW01

6. VLAN Network

- Speed : 1,000 Mbps

- IP Adress : 167.167.167.32

- Subnet mask : 255.255.255.0

- Gateway: 167.167.167.99

7. Operating System (OS)

- Ubuntu Linux (64 bits) 8. Application software

- Microsoft SQL server standard

2017 (64 bits)

- Pre-weight software

- Inventory software

vCenter.226 Configuration:

1. CPU: 2.9 Ghz 4 Core

2. RAM: 16 GB

3. Hard Disk

- C: 860.95 GB

4. VDO Adapter 1 & 2: 1024 x 768

5. Computer Name: VCenter

6. VLAN Network

- Speed: 1,000 Mbps

- IP Adress : 167.167.167.216

- Subnet mask: 255,255,255.0

- Gateway: 167.167.167.99

7. Operating System (OS) - Other 3.x Linux (64-Bit)

8. Application software

- VCenter 6.7

FOSTER
ENGINEERING

Creation by :	Foster	Date :	31-10-2022
Checked by :	Foster	Date :	31-10-2022
Aproved by :	Jamras	Date :	31-10-2022



	Customer : Uni	lever Thai
V	Project Name :	PCL Pla

			REV.	Date	Description	Title :
Customer: Unilever Thai Holding Limited				28-03-2022	Initial Issue	Server Host 7:VMWARE
				28-08-2022	Construction	ESXi-7
		. PCL Plant Pre-Weight		31-10-2022	As built	
	Project Name :	System				Page number : 28/63
		System				

- 1		Creation by :	Foster	Date :	31-10-2022	Title:	REV.	Date	Description
-		0.00	. 00.0.		01.10.2022		B1	28-03-2022	Initial Issue
١	FOSTER	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
- 1	ENGINEERING					System IP Address	D1	31-10-2022	As built
- 1	ENGINEERING	Aproved by :	Jamras	Date :	31-10-2022	Summary List			
L			-		***************************************	Janimary List			
- 1	200 200 200	Customer: Unilever Thai Holding Limited							
- 1									
- 1									
١	Unilever	Project Name : PCL Plant Pre-Weight							
- 1	Ortherer	Project Nar	ne:		-	Page number : 29/63			
- 1	Unilever Thai Holding Limited	System							

Item No.	Equipment Name	IP Address	Subnet mask	Gateway	DNS server	Description
1	PPSERVER	167.167.167.1	255.255.255.0	167.167.167.99	N/A	Guest OS: SQL Server
2	PPIB01	167.167.167.11	255.255.255.0	167.167.167.99	N/A	Guest OS: InBatch Server#1
3	PPIB02	167.167.167.12	255.255.255.0	167.167.167.99	N/A	Guest OS: InBatch Server#2
4	PNT-CTL-9	167.167.167.14	255.255.255.0	167.167.167.99	N/A	Conrol Room Printer (Printer#9)
5	PPPW01	167.167.167.32	255.255.255.0	167.167.167.99	N/A	Guest OS: Pre-Weight
6	PPINV01	167.167.167.35	255.255.255.0	167.167.167.99	N/A	Guest OS: Inventory
7	PPVW01	167.167.167.36	255.255.255.0	167.167.167.99	N/A	Guest OS: View Node#1
8	PPVW02	167.167.167.37	255.255.255.0	167.167.167.99	N/A	Guest OS: View Node#2
9	PPVW03	167.167.167.38	255.255.255.0	167.167.167.99	N/A	Guest OS: View Node#3 (Tank Farm)
10	PPSC01	167.167.167.41	255.255.255.0	167.167.167.99	N/A	Guest OS: SCADA#1
11	PPSC02	167.167.167.42	255.255.255.0	167.167.167.99	N/A	Guest OS: SCADA#2
12	PPSC03	167.167.167.43	255.255.255.0	167.167.167.99	N/A	Guest OS: SCADA#3
13	PPSC04	167.167.167.44	255.255.255.0	167.167.167.99	N/A	Guest OS: SCADA#4
14	PPSC05	167.167.167.45	255.255.255.0	167.167.167.99	N/A	Guest OS: SCADA#5
15	PPIO01	167.167.167.51	255.255.255.0	167.167.167.99	N/A	Guest OS: SCADA I/O Server#1
16	PPIO02	167.167.167.52	255.255.255.0	167.167.167.99	N/A	Guest OS: SCADA I/O Server#2
17	HISTORIAN	167.167.167.253	255.255.255.0	167.167.167.99	N/A	Guest OS: Historian Server
18	SCADA-1	167.167.167.71	255.255.255.0	167.167.167.99	N/A	Thin client for monitoring PPSC01
19	SCADA-2	167.167.167.72	255.255.255.0	167.167.167.99	N/A	Thin client for monitoring PPSC02
20	SCADA-3	167.167.167.73	255.255.255.0	167.167.167.99	N/A	Thin client for monitoring PPSC03
21	SCADA-4	167.167.167.74	255.255.255.0	167.167.167.99	N/A	Thin client for monitoring PPSC04
22	SCADA-5	167.167.167.75	255.255.255.0	167.167.167.99	N/A	Thin client for monitoring PPSC05
23	Engineer	167.167.167.77	255.255.255.0	167.167.167.99	N/A	Thin client for monitoring & Modify PreW System (Temporary Use)
24	InBatch	167.167.167.78	255.255.255.0	167.167.167.99	N/A	Thin client for monitoring PPIB01 & PPIB02
25	IO-Server	167.167.167.79	255.255.255.0	167.167.167.99	N/A	Thin client for monitoring PPIO01 & PPIO02
26	ViewNode-1	167.167.167.82	255.255.255.0	167.167.167.99	N/A	Thin client for monitoring PPVW01
27	ViewNode-2	167.167.167.83	255.255.255.0	167.167.167.99	N/A	Client for monitoring PPVW02
28	Inventory	167.167.167.85	255.255.255.0	167.167.167.99	N/A	Thin client for monitoring Inventory Application
29	Host#1 / ESXi#1	167.167.167.211	255.255.255.0	167.167.167.99	N/A	Managemant IP
29	HOSI#1 / ESKI#1	167.167.167.61	255.255.255.0	167.167.167.99	N/A	iLO Port IP
20	Hact#2 / ECV:#2	167.167.167.212	255.255.255.0	167.167.167.99	N/A	Managemant IP
30	Host#2 / ESXi#2	167.167.167.62	255.255.255.0	167.167.167.99	N/A	iLO Port IP
		•		•	•	•

	Creation by :	Foster	Date :	31-10-2022	Title :	REV.	Date	Description
	0.00			00 2022		B1	28-03-2022	Initial Issue
FOSTER	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
ENĞINEERING					System IP Address	D1	31-10-2022	As built
	Aproved by :	Jamras	Date :	31-10-2022	Summary List 1			
					Odiffinally List i			
	Customer: Unilever Thai Holding Limited							
Unilever	Due is at Non	PCL	Plant P	re-Weight	B 1 22/22			
	Project Nan	Project Name : System		-	Page number : 30/63			
Unilever Thai Holding Limited			-,	•				

Item No. Equipment Name IP Address		Subnet mask	Gateway	DNS server	Description		
	31 Host#3 / ESXi#3 167.167.167.213 167.167.167.63		255.255.255.0	167.167.167.99	N/A	Managemant IP	
31			255.255.255.0	167.167.167.99	N/A	iLO Port IP	
167.167.167.214		255.255.255.0	167.167.167.99	N/A	Managemant IP		
32	Host#4 / ESXi#4	167.167.167.64	255.255.255.0	167.167.167.99	N/A	iLO Port IP	
33 Host#5 / ESXi#5		255.255.255.0	167.167.167.99	N/A	Managemant IP		
		167.167.167.65	255.255.255.0	167.167.167.99	N/A	iLO Port IP	
34	vCenter#1	167.167.167.216	255.255.255.0	167.167.167.99	N/A	Guest OS: vCenter for Cluster ESXi#1 to 5	
		167.167.167.217	255.255.255.0	167.167.167.99	N/A		
35	ST#1	167.167.167.218	255.255.255.0	167.167.167.99	N/A		
		167.167.167.219	255.255.255.0	167.167.167.99	N/A		
36	ST#2	167.167.167.220	255.255.255.0	167.167.167.99	N/A		
^-	11 4/0 / 50////	167.167.167.221	255.255.255.0	167.167.167.99	N/A	Managemant IP	
37	Host#6 / ESXi#6	167.167.167.66	255.255.255.0	167.167.167.99	N/A	iLO Port IP	
	11 4/2 / 5000//	167.167.167.222	255.255.255.0	167.167.167.99	N/A	Managemant IP	
38	Host#7 / ESXi#7	167.167.167.67	255.255.255.0	167.167.167.99	N/A	iLO Port IP	
39	vCenter.226	167.167.167.226	255.255.255.0	167.167.167.99	N/A	Guest OS: vCenter.226 for Cluster ESXi#6 to 7	
40	Veeam Backup	167.167.167.252	255.255.255.0	167.167.5.99	8.8.8.8	Veeam Backup for backup Guest OS	
41	HUB#3	N/A	N/A	N/A	N/A	SCADA HUB	
42	HUB#4	N/A	N/A	N/A	N/A	PLC HUB	
43	HUB#5	N/A	N/A	N/A	N/A	Pre-Weight HUB	
44	HUB#6	N/A	N/A	N/A	N/A	SAN Storage Network Switch	
45	HUB#7	N/A	N/A	N/A	N/A	SAN Storage Network Switch	
46	HUB#8	N/A	N/A	N/A	N/A	Router Network Switch (Gate Way HUB)	
47	HUB#9	N/A	N/A	N/A	N/A	Router Network Switch (Gate Way HUB)	
48	N90	167.167.2.100	255.255.255.0	167.167.2.99	N/A	Utility PLC	
49	N10	167.167.2.101	255.255.255.0	167.167.2.99	N/A	Mixing Line#1 PLC	
50	N20	167.167.2.102	255.255.255.0	167.167.2.99	N/A	Mixing Line#2 PLC	
51	N30	167.167.2.103	255.255.255.0	167.167.2.99	N/A	Mixing Line#3 PLC	
52	N40	167.167.2.104	255.255.255.0	167.167.2.99	N/A	Mixing Line#4 PLC	
53	N50	167.167.2.105	255.255.255.0	167.167.2.99	N/A	Mixing Line#5 PLC	
54	N60	167.167.2.106	255.255.255.0	167.167.2.99	N/A	Mixing Line#6 PLC	
55	N70	167.167.2.107	255.255.255.0	167.167.2.99	N/A	Mixing Line#7 PLC (Sonolator PLC)	
56	N92	167.167.2.200	255.255.255.0	167.167.2.99	N/A	Utility Mixer PLC	
57	N93	167.167.2.201	255.255.255.0	167.167.2.99	N/A	Flow Plate PLC	

FOSTER
ENGINEERING
ENGINEERING

Unilever Thai Holding Limited

Creation by :	Foster	Date :	31-10-2022
Checked by :	Foster	Date :	31-10-2022
Aproved by :	Jamras	Date :	31-10-2022

System IP Address
Summary List 2

REV.	Date	Description
B1	28-03-2022	Initial Issue
C1	28-08-2022	Construction
D1	31-10-2022	As built

Customer :	Unilever Thai Holding Limited
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Project Name :

PCL Plant Pre-Weight System

Page number: 31/63

Title :

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Item No.	Equipment Name	IP Address	Subnet mask	Gateway	DNS server	Description
58	N90 MK001-4	167.167.3.1	255.255.255.0	0.0.0.0	N/A	Utility PLC MK001-4 Remote I/O
59	N90 MK001-5	167.167.3.2	255.255.255.0	0.0.0.0	N/A	Utility PLC MK001-5 Remote I/O
60	N90 MK031	167.167.3.4	255.255.255.0	0.0.0.0	N/A	Utility PLC MK031 Remote I/O
61	N90 MK032	167.167.3.5	255.255.255.0	0.0.0.0	N/A	Utility PLC MK032 Remote I/O
62	N90 MCC	167.167.3.6	255.255.255.0	0.0.0.0	N/A	Utility PLC MCC Remote I/O
63	N90 MK033	167.167.3.7	255.255.255.0	0.0.0.0	N/A	Utility PLC Pre-Weight System Remote I/O
64	N90 MK034	167.167.3.8	255.255.255.0	0.0.0.0	N/A	Utility PLC Buffer Storage Tank Remote I/O
65	N90 MK035	167.167.3.9	255.255.255.0	0.0.0.0	N/A	Utility PLC IBCBulk Tank Remote I/O
66	WT1000-02	167.167.3.51	255.255.255.0	0.0.0.0	N/A	Utility PLC WT1000-02 (T1000 Load Cell)
67	WT2000-02	167.167.3.52	255.255.255.0	0.0.0.0	N/A	Utility PLC WT2000-02 (T2000 Load Cell)
68	OIT-MX062C/D	167.167.3.62	255.255.255.0	0.0.0.0	N/A	MX062C and MX062D Cabopol Pre-Mixer Touch Screen
69	OIT-1000/T2000	167.167.3.63	255.255.255.0	0.0.0.0	N/A	T1000 and T2000 Fatty Acid Pre-Mixer Touch Screen
70	N90 OIT EN2T	167.167.3.100	255.255.255.0	0.0.0.0	N/A	N10 Ethernet Card for TMX101 Touch Screen& Remote I/O
71	N10 OIT EN2T	167.167.3.101	255.255.255.0	0.0.0.0	N/A	N10 Ethernet Card for Touch Screen Network
72	N20 OIT EN2T	167.167.3.102	255.255.255.0	0.0.0.0	N/A	N20 Ethernet Card for Touch Screen Network
73	N30 OIT EN2T	167.167.3.103	255.255.255.0	0.0.0.0	N/A	N30 Ethernet Card for Touch Screen Network
74	N40 OIT EN2T	167.167.3.104	255.255.255.0	0.0.0.0	N/A	N40 Ethernet Card for Touch Screen Network
75	N50 OIT EN2T	167.167.3.105	255.255.255.0	0.0.0.0	N/A	N50 Ethernet Card for Touch Screen Network
76	N60 OIT EN2T	167.167.3.106	255.255.255.0	0.0.0.0	N/A	N60 Ethernet Card for Touch Screen Network
77	N70 OIT EN2T	167.167.3.107	255.255.255.0	0.0.0.0	N/A	N70 Ethernet Card for Touch Screen Network
78	OIT-MX101	167.167.3.111	255.255.255.0	0.0.0.0	N/A	MX101 Touch Screen
79	OIT-MX103	167.167.3.113	255.255.255.0	0.0.0.0	N/A	MX103 Touch Screen
80	OIT-MX104	167.167.3.114	255.255.255.0	0.0.0.0	N/A	MX104 Touch Screen
81	OIT-MX105	167.167.3.115	255.255.255.0	0.0.0.0	N/A	MX105 Touch Screen
82	OIT-MX106	167.167.3.116	255.255.255.0	0.0.0.0	N/A	MX106 Touch Screen
83	OIT-MX201	167.167.3.121	255.255.255.0	0.0.0.0	N/A	MX201 Touch Screen
84	OIT-MX203	167.167.3.123	255.255.255.0	0.0.0.0	N/A	MX203 Touch Screen
85	OIT-MX204	167.167.3.124	255.255.255.0	0.0.0.0	N/A	MX204 Touch Screen
86	OIT-MX205	167.167.3.125	255.255.255.0	0.0.0.0	N/A	MX205 Touch Screen
87	OIT-MX206	167.167.3.126	255.255.255.0	0.0.0.0	N/A	MX206 Touch Screen
88	OIT-MX301	167.167.3.131	255.255.255.0	0.0.0.0	N/A	MX301 Touch Screen
89	OIT-MX303	167.167.3.133	255.255.255.0	0.0.0.0	N/A	MX303 Touch Screen
90	OIT-MX304	167.167.3.134	255.255.255.0	0.0.0.0	N/A	MX304 Touch Screen

	Creation by :	Foster	Date :	31-10-2022	Title :	REV.	Date	Description
	Greation by :	1 00101	Dute .	01 10 2022	Thu I	B1	28-03-2022	Initial Issue
FOSTER	Checked by :	Foster	Date :	31-10-2022	Ī		28-08-2022	Construction
ENGINEERING					System IP Address	D1	31-10-2022	As built
LI GIN LLIII G	Aproved by :	Jamras	Date :	31-10-2022	Summary List 3			
	Sullillary List 3							
	Customer: Unilever Thai Holding Limited							
1000000000000000000000000000000000000								
Unilever	Project Nar	na. PCL	Plant P	re-Weight	Page number : 32/63			
Unilever Thai Holding Limited	Project Nai	ne.	Syst	•				
Office of That Holding Littlied	Oystem							

Item No.	Equipment Name	IP Address	Subnet mask	Gateway	DNS server	Description
91	OIT-MX305	167.167.3.135	255.255.255.0	0.0.0.0	N/A	MX305 Touch Screen
92	OIT-MX306	167.167.3.136	255.255.255.0	0.0.0.0	N/A	MX306 Touch Screen
93	OIT-MX401	167.167.3.141	255.255.255.0	0.0.0.0	N/A	MX401 Touch Screen
94	OIT-MX403	167.167.3.143	255.255.255.0	0.0.0.0	N/A	MX403 Touch Screen
95	OIT-MX404	167.167.3.144	255.255.255.0	0.0.0.0	N/A	MX404 Touch Screen
96	OIT-MX405	167.167.3.145	255.255.255.0	0.0.0.0	N/A	MX405 Touch Screen
97	OIT-MX406	167.167.3.146	255.255.255.0	0.0.0.0	N/A	MX406 Touch Screen
98	OIT-MX501	167.167.3.151	255.255.255.0	0.0.0.0	N/A	MX501 Touch Screen
99	OIT-MX503	167.167.3.153	255.255.255.0	0.0.0.0	N/A	MX503 Touch Screen
100	OIT-MX504	167.167.3.154	255.255.255.0	0.0.0.0	N/A	MX504 Touch Screen
101	OIT-MX505	167.167.3.155	255.255.255.0	0.0.0.0	N/A	MX505 Touch Screen
102	OIT-MX506	167.167.3.156	255.255.255.0	0.0.0.0	N/A	MX506 Touch Screen
103	OIT-MX601	167.167.3.161	255.255.255.0	0.0.0.0	N/A	MX601 Touch Screen
104	OIT-MX603	167.167.3.163	255.255.255.0	0.0.0.0	N/A	MX603 Touch Screen
105	OIT-MX604	167.167.3.164	255.255.255.0	0.0.0.0	N/A	MX604 Touch Screen
106	OIT-MX606	167.167.3.166	255.255.255.0	0.0.0.0	N/A	MX606 Touch Screen
107	OIT-MX607	167.167.3.167	255.255.255.0	0.0.0.0	N/A	MX607 Touch Screen
108	OIT-MX701A	167.167.3.170	255.255.255.0	0.0.0.0	N/A	MX701A Touch Screen
109	OIT-MX703A	167.167.3.172	255.255.255.0	0.0.0.0	N/A	MX703A Touch Screen
110	OIT-MX704A	167.167.3.174	255.255.255.0	0.0.0.0	N/A	MX704A Touch Screen
111	OIT-MX709	167.167.3.176	255.255.255.0	0.0.0.0	N/A	MX709 Touch Screen
112	N92 OIT ENET	167.167.3.200	255.255.255.0	0.0.0.0	N/A	N92 Ethernet Card for Touch Screen Network
113	OIT-MX1001	167.167.3.211	255.255.255.0	0.0.0.0	N/A	MX1001 Touch Screen (N92 Utility Mixer)
114	OIT-MX2001	167.167.3.221	255.255.255.0	0.0.0.0	N/A	MX2001 Touch Screen (N92 Utility Mixer)
115	Pre-Weight1	167.167.4.84	255.255.255.0	167.167.167.99	N/A	Thin client for monitoring Pre-Weight Application (Pre-Weight Room 1)
116	Pre-Weight2	167.167.4.86	255.255.255.0	167.167.167.99	N/A	Thin client for monitoring Pre-Weight Application (Pre-Weight Room 2) for Future

FÖSTER ENGINEERING	Creation by :	Foster	Date :	31-10-2022	Title :	REV.	Date	Description
						B1	28-03-2022	Initial Issue
	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
			\sqcup		System IP Address	D1	31-10-2022	As built
	Aproved by :	Jamras	Date :	31-10-2022	Summary List 4			
	Sullillary List 4							
	Customor	. Ilmilavar T	ha: Hali	الممالسمال				
9 78 2 8	Customer .	. Unilever i	nai noi	ding Limited				
(SEE)								
Unilever	Broiset Non	PCL	Plant P	re-Weight				
Unilever Thai Holding Limited	Project Nar	ne:	Syst	•	Page number : 33/63			
Unilever That Holding Limited			0,00	•				

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Item No.	Equipment Name	IP Address	Subnet mask	Gateway	DNS server	Description
117	PNT-PWS-10	167.167.4.200	255.255.255.0	167.167.4.99	N/A	Pre-Weight Station Center Printer (Printer#10)
118	OIT-PWS-01	167.167.4.201	255.255.255.0	167.167.4.99	N/A	Operating interface terminal for Pre-weight scale#1
119	OIT-PWS-02	167.167.4.202	255.255.255.0	167.167.4.99	N/A	Operating interface terminal for Pre-weight scale#2
120	OIT-PWS-03	167.167.4.203	255.255.255.0	167.167.4.99	N/A	Operating interface terminal for Pre-weight scale#3
121	PNT-PWS-01	167.167.4.211	255.255.255.0	167.167.4.99	N/A	Barcode Printer for Pre-weight scale#1
122	PNT-PWS-02	167.167.4.212	255.255.255.0	167.167.4.99	N/A	Barcode Printer for Pre-weight scale#2
123	PNT-PWS-03	167.167.4.213	255.255.255.0	167.167.4.99	N/A	Barcode Printer for Pre-weight scale#3
124	PNT-INV-01	167.167.4.214	255.255.255.0	167.167.4.99	N/A	Barcode Printer for Inventory system
125	WT-PWS-01	167.167.4.221	255.255.255.0	0.0.0.0	N/A	Load cell for Pre-weight scale#1
126	WT-PWS-02	167.167.4.222	255.255.255.0	0.0.0.0	N/A	Load cell for Pre-weight scale#2
127	WT-PWS-03	167.167.4.223	255.255.255.0	0.0.0.0	N/A	Load cell for Pre-weight scale#3
128	N10 RIO EN2T	167.167.101.1	255.255.255.0	0.0.0.0	N/A	N10 Ethernet Card for Remote I/O Network
129	WT101-01	167.167.101.2	255.255.255.0	0.0.0.0	N/A	N10 PLC WT101-01 (MX101 Load Cell)
130	WT103-01	167.167.101.3	255.255.255.0	0.0.0.0	N/A	N10 PLC WT103-01 (MX103 Load Cell)
131	WT104-01	167.167.101.4	255.255.255.0	0.0.0.0	N/A	N10 PLC WT104-01 (MX104 Load Cell)
132	N20 RIO EN2T	167.167.102.1	255.255.255.0	0.0.0.0	N/A	N20 Ethernet Card for Remote I/O Network
133	WT201-01	167.167.102.2	255.255.255.0	0.0.0.0	N/A	N20 PLC WT201-01 (MX201 Load Cell)
134	WT203-01	167.167.102.3	255.255.255.0	0.0.0.0	N/A	N20 PLC WT203-01 (MX203 Load Cell)
135	WT204-01	167.167.102.4	255.255.255.0	0.0.0.0	N/A	N20 PLC WT204-01 (MX204 Load Cell)
136	N30 RIO EN2T	167.167.103.1	255.255.255.0	0.0.0.0	N/A	N30 Ethernet Card for Remote I/O Network
137	WT301-01	167.167.103.2	255.255.255.0	0.0.0.0	N/A	N30 PLC WT301-01 (MX301 Load Cell)
138	WT303-01	167.167.103.3	255.255.255.0	0.0.0.0	N/A	N30 PLC WT303-01 (MX303 Load Cell)
139	WT304-01	167.167.103.4	255.255.255.0	0.0.0.0	N/A	N30 PLC WT304-01 (MX304 Load Cell)
140	N40 RIO EN2T	167.167.104.1	255.255.255.0	0.0.0.0	N/A	N40 Ethernet Card for Remote I/O Network
141	WT401-01	167.167.104.2	255.255.255.0	0.0.0.0	N/A	N40 PLC WT401-01 (MX401 Load Cell)
142	N70 RIO EN2T	167.167.107.1	255.255.255.0	0.0.0.0	N/A	N70 Ethernet Card for Remote I/O Network
143	MCCRIO01	167.167.107.2	255.255.255.0	0.0.0.0	N/A	N70 PLC MCC#1 Remote I/O
144	MCCRIO02	167.167.107.3	255.255.255.0	0.0.0.0	N/A	N70 PLC MCC#2 Remote I/O
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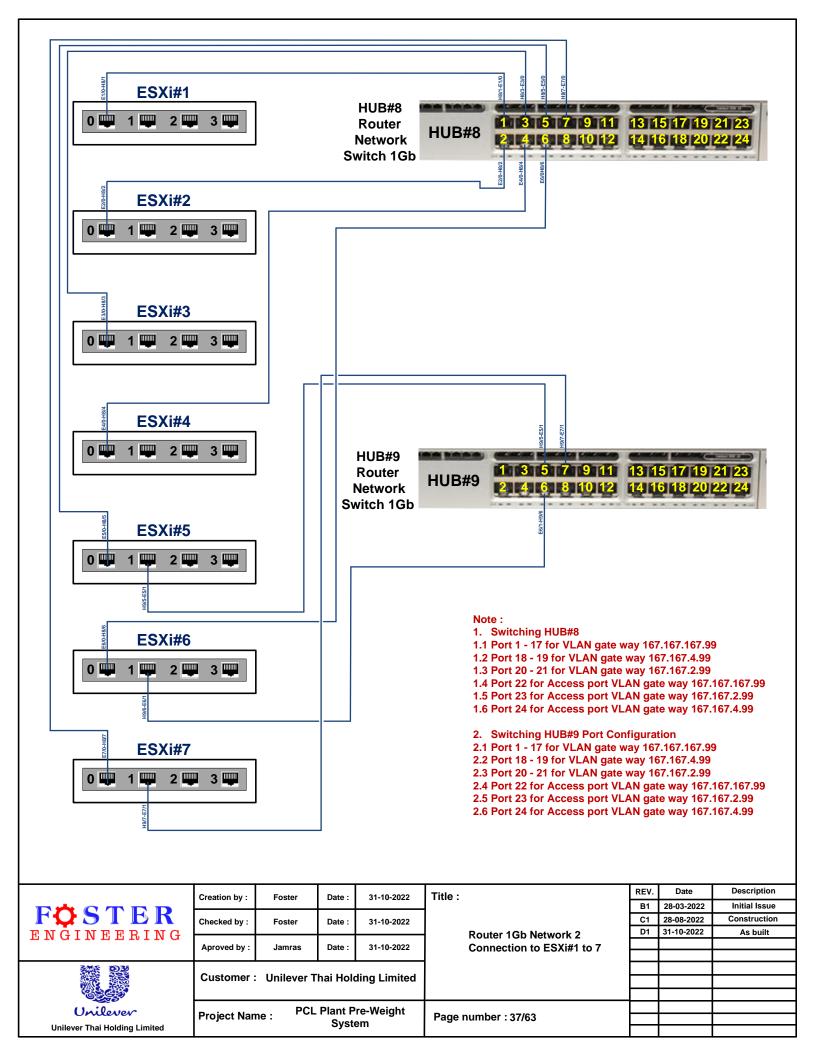
FOSTER ENGINEERING	Creation by :	Foster	Date :	31-10-2022	Title :		Date	Description
				** ** ***		B1	28-03-2022	Initial Issue
	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
					System IP Address	D1	31-10-2022	As built
	Aproved by :	Jamras	Date :	31-10-2022	Summary List 5			
		<u> </u>						
	Customer	. Unilovor T	bai Hal	ding Limited				
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Unilever	Project Nar	no. PCL	Plant P	re-Weight	Daga numbar : 24/62			
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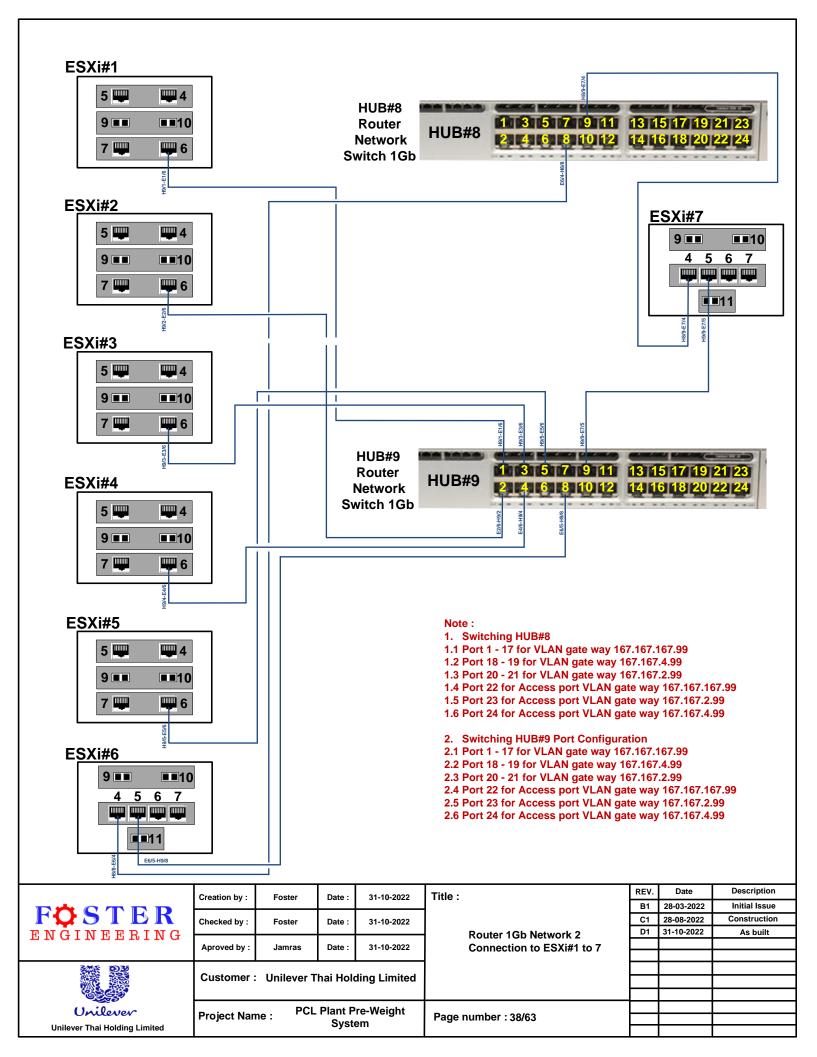
Item No.	Equipment Name	IP Address	Subnet mask	Gateway	DNS server	Description				
145	N93 OIT ENBT	167.167.201.1	255.255.255.0	0.0.0.0	N/A	N93 Ethernet Card for Touch Screen Network				
146	OIT-3TF1/4TF1	167.167.201.2	255.255.255.0	0.0.0.0	N/A	3TF1 and 4TF1 Touch Screen				
147	FP100	167.167.201.3	255.255.255.0	0.0.0.0	N/A	Flow Plate#1 Touch Screen				
148	FP200	167.167.201.4	255.255.255.0	0.0.0.0	N/A	Flow Plate#2 Touch Screen				
149	FP300	167.167.201.5	255.255.255.0	0.0.0.0	N/A	Flow Plate#3 Touch Screen				
150	FP400	167.167.201.6	255.255.255.0	0.0.0.0	N/A	Flow Plate#4 Touch Screen				
151	N93_FP101	167.167.107.11	255.255.255.0	0.0.0.0	N/A	N93 PLC Flow Plate Panel#1 Rack#1 Remote I/O				
152	N93_FP401	167.167.107.18	255.255.255.0	0.0.0.0	N/A	N93 PLC Flow Plate Panel#4 Rack#8 Remote I/O				
153	N92 OIT ENBT	192.168.1.200	255.255.255.0	0.0.0.0	N/A	N92 Ethernet Card for Remote I/O Network				
154	MX1001	192.168.1.201	255.255.255.0	0.0.0.0	N/A	N92 PLC MX1001 Remote I/O				
155	MX2001	192.168.1.202	255.255.255.0	0.0.0.0	N/A	N92 PLC MX2001 Remote I/O				
156	WT1001-01	192.168.1.203	255.255.255.0	0.0.0.0	N/A	N92 PLC WT1001-01 (MX1001 Load Cell)				
157	WT2001-01	192.168.1.204	255.255.255.0	0.0.0.0	N/A	N92 PLC WT2001-01 (MX2001 Load Cell)				
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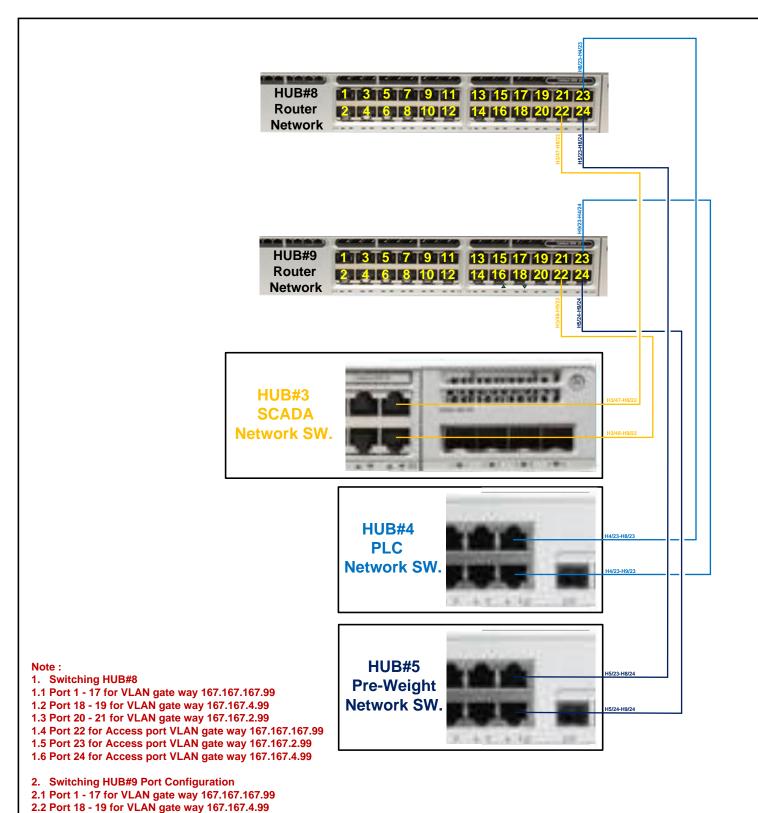
FÖSTER ENGINEERING	Creation by :	Foster	Date :	31-10-2022	-10-2022 Title :		Date	Description
	0.0002, .			01.10.2022		B1	28-03-2022	Initial Issue
	Checked by :	System IP A	_	C1	28-08-2022	Construction		
					System IP Address	D1	31-10-2022	As built
	Aproved by :		Date :	31-10-2022	Summary List 6			
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	Customor	I Indiana T	hai Uala	dina limitad				
	Customer .	Unilever	nai noic	ding Limited				
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Unilever Thai Holding Limited	Project Nar	ne:	Syst	•	Page number : 35/63			
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Rack Server Network Internal Connection

	FÖSTER ENGINEERING	Creation by :	Foster	Date:	31-10-2022	Title:	REV.	Date	Description	ı
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		Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction	ĺ
						Rack Server Network	D1	31-10-2022	As built	ı
		Aproved by :	oved by : Jamras Date : 31-10-2022 Internal Connection				ı			
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	Unilever									ı
		Customer :	Unilever I	nai Hoi	ding Limited					ĺ
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		Due is at Nam	РО	L Plant	Pre-Weight					ı
		Project Nar	ne:	System		Page number : 36/63	$oxed{oxed}$			ı
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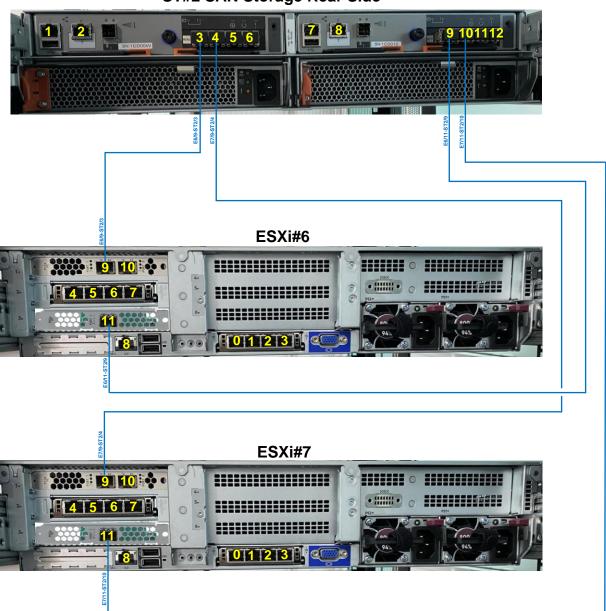


		Creation by :	Foster	Date :	31-10-2022	Title:	REV.	Date	Description
		0.000.00.29		J 2		1	B1	28-03-2022	Initial Issue
	FOSTER	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
	ENGINEERING					Router 1Gb Network	D1	31-10-2022	As built
	ENGINEERING	Aproved by :	Jamras	Date :	31-10-2022	Connection to SCADA,			
		, ,				PreW., PLC network HUB			
		l							
		Customer :	Unilever T	hai Holo	ding Limited				
	Unilever		PCI.	Dlant D	e-Weight				
		Project Nan	ne: FCL	Svste	U	Page number : 39/63			
	Unilever Thai Holding Limited	I		Jysie	:111				

2.3 Port 20 - 21 for VLAN gate way 167.167.2.99

2.4 Port 22 for Access port VLAN gate way 167.167.167.99 2.5 Port 23 for Access port VLAN gate way 167.167.2.99 2.6 Port 24 for Access port VLAN gate way 167.167.4.99

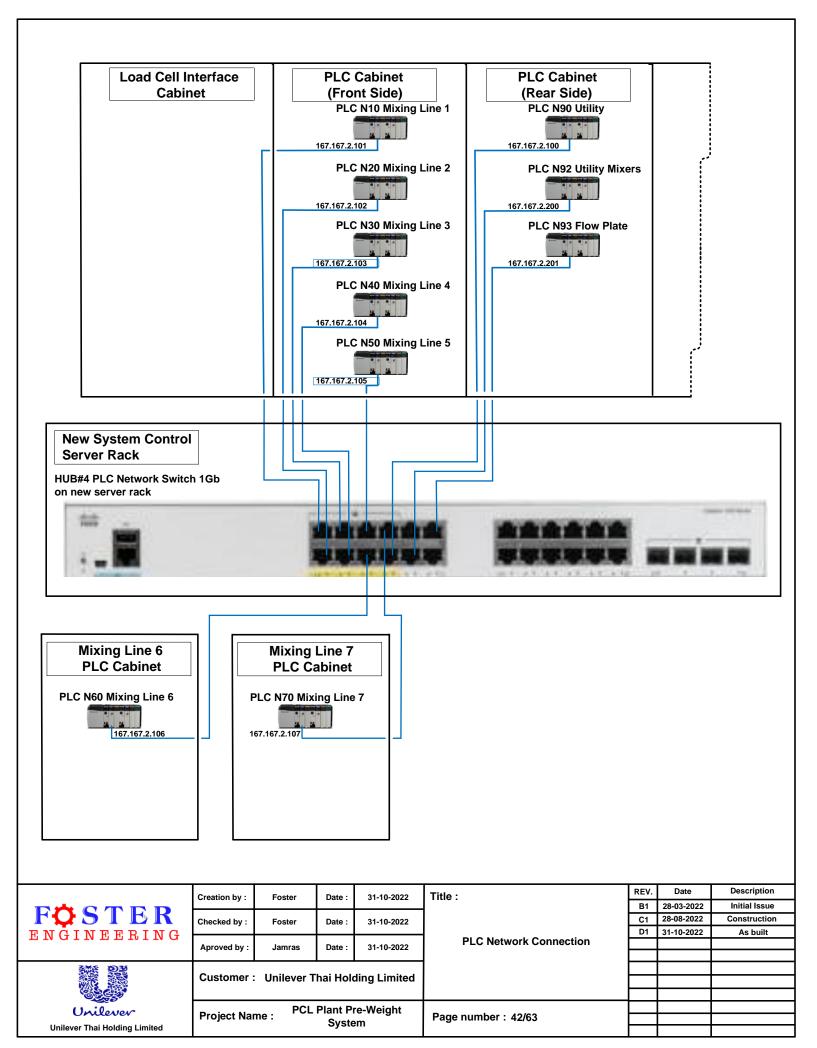
ST#2 SAN Storage Rear Side



	Creation by :	Foster	Date :	31-10-2022	Title:	REV.	Date	Description
			24.01	******		B1	28-03-2022	Initial Issue
FOSTER	ERING	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
ENGINEERING					Server SAN Storage	D1	31-10-2022	As built
ER GIREERIN G		Date :	31-10-2022	Fibre Optic 16 GB Network				
	Customor		'l- a! a .	-li				
	Customer :	Unilever i	nai Hoi	ding Limited				
Unilever	Drainet Non	no. PCI	Plant P	re-Weight	Dama wassakan 40/00	$ldsymbol{le}}}}}}$		
Unilever Thai Holding Limited	Project Nar	ne: . oe	Syste	•	Page number: 40/63			
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PLC Network

	Creation by :	Foster	Date :	31-10-2022	Title :	REV.	Date	Description
	0.000.00.29			01.10.2022	1	B1	28-03-2022	Initial Issue
FØSTER ENGINEERING	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
					PLC Network Cover Sheet	D1	31-10-2022	As built
	Aproved by :	Jamras	Date :	31-10-2022				
	C							
	Customer	Unilever i	nai Hoi	ding Limited				
Unilever	Danie de Mar	PCL	Plant P	re-Weight				
	Project Nai	me :	Syste	Ū	Page number : 41/63			
Unilever Thai Holding Limited			-,					



SCADA Network



Creation by :	Foster	Date :	31-10-2022
Checked by :	Foster	Date :	31-10-2022
Aproved by :	Jamras	Date :	31-10-2022



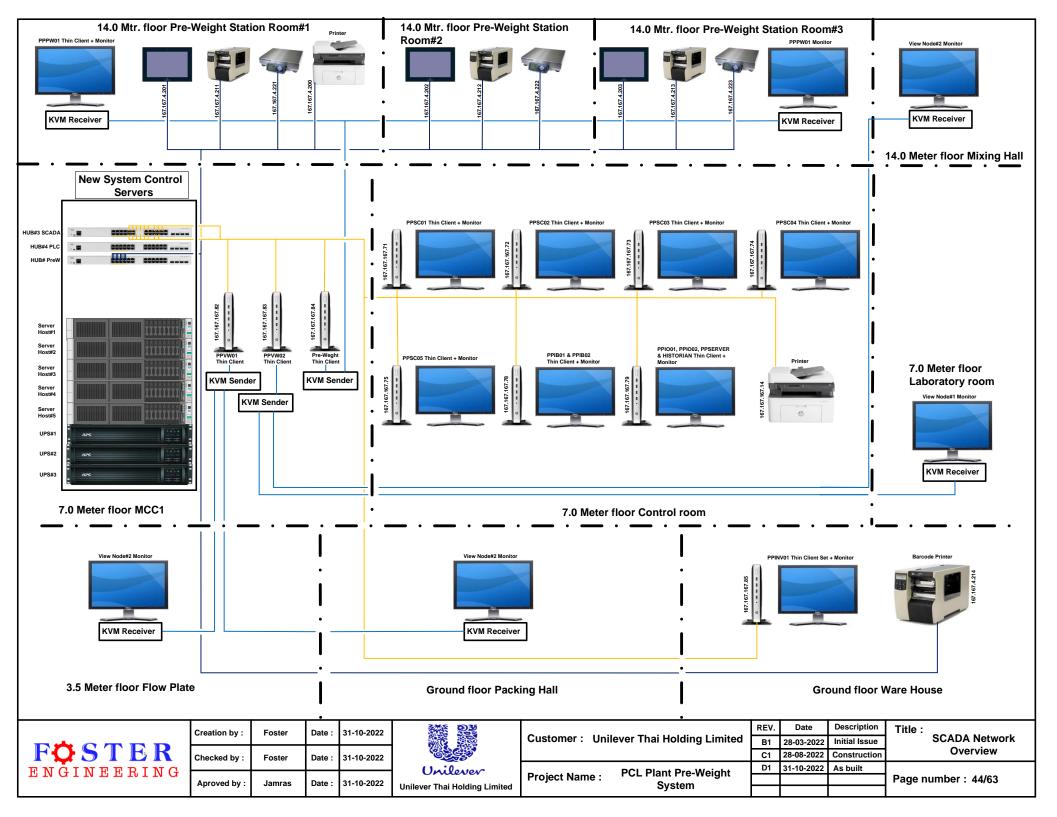
Customer :	Unilever Thai Holding Limited

REV.	Date	Description	Ti
B1	28-03-2022	Initial Issue	
C1	28-08-2022	Construction	
D1	31-10-2022	As built	

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1	cover Sheet

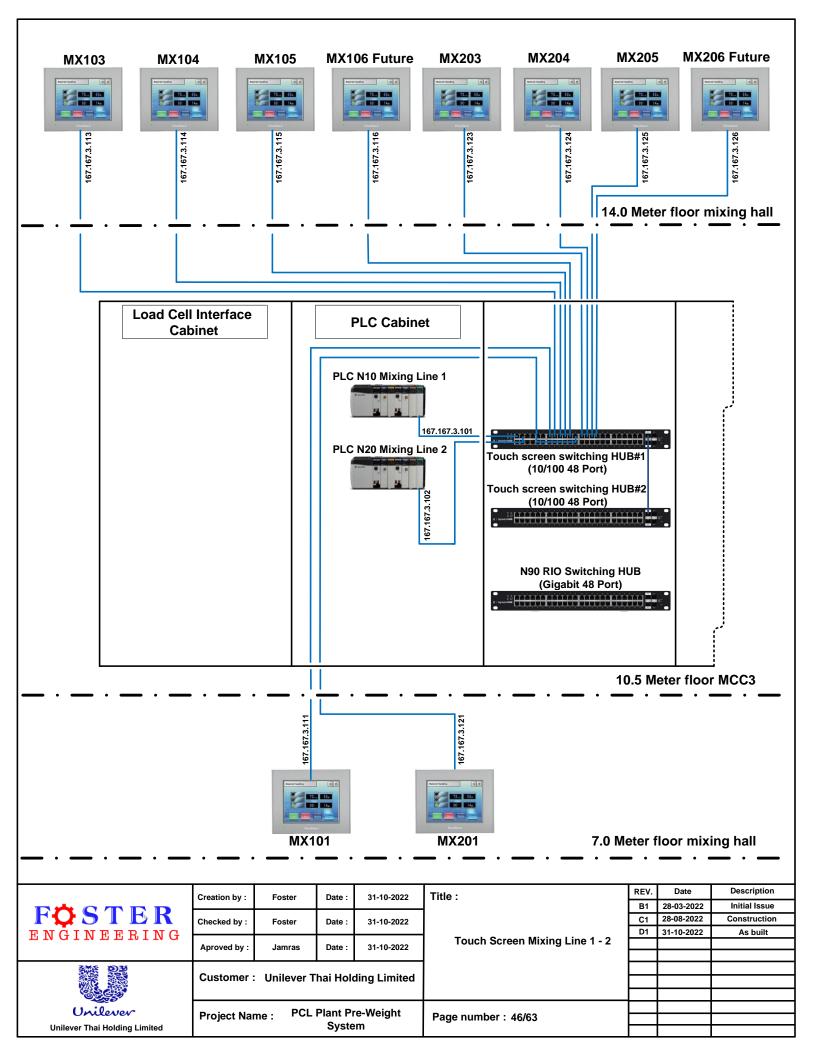
Project Name : PCL Plant Pre-Weight System

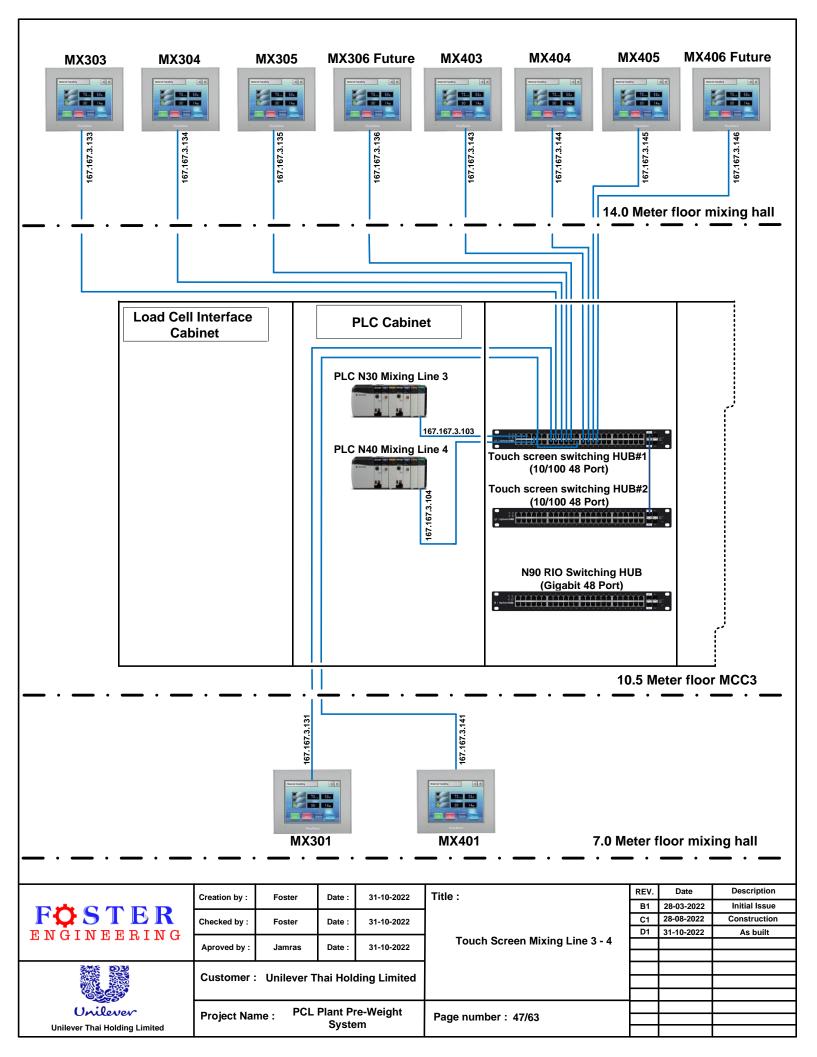
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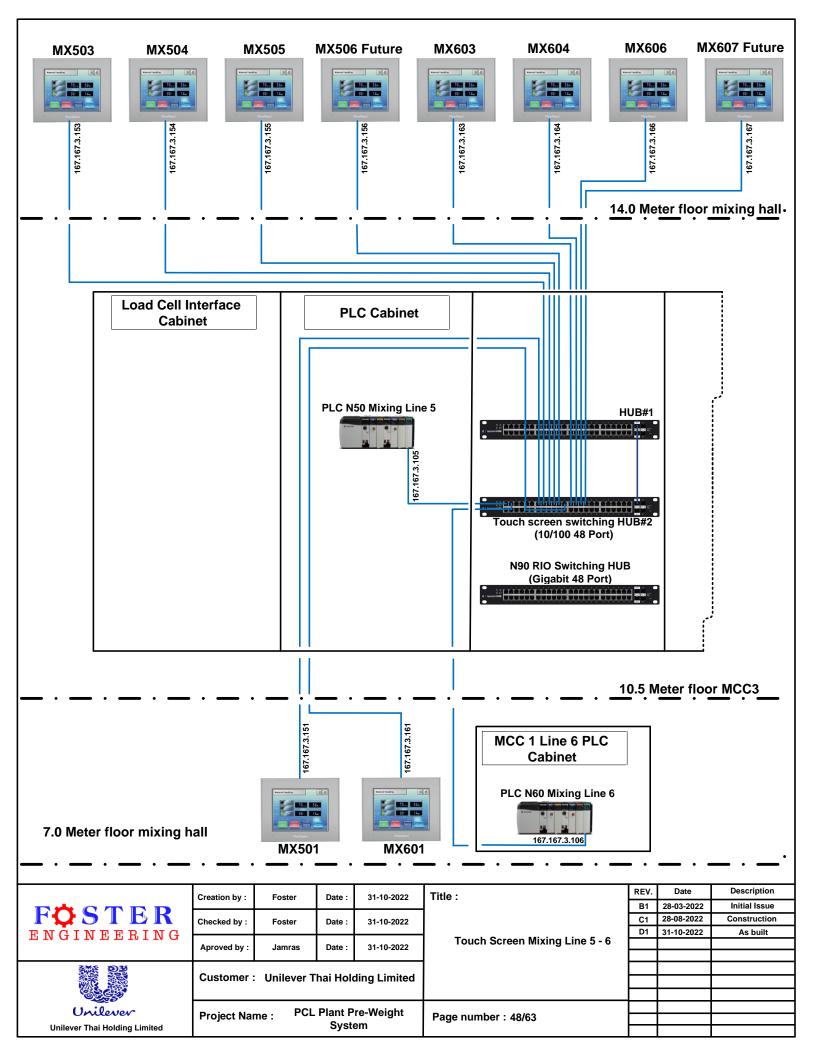


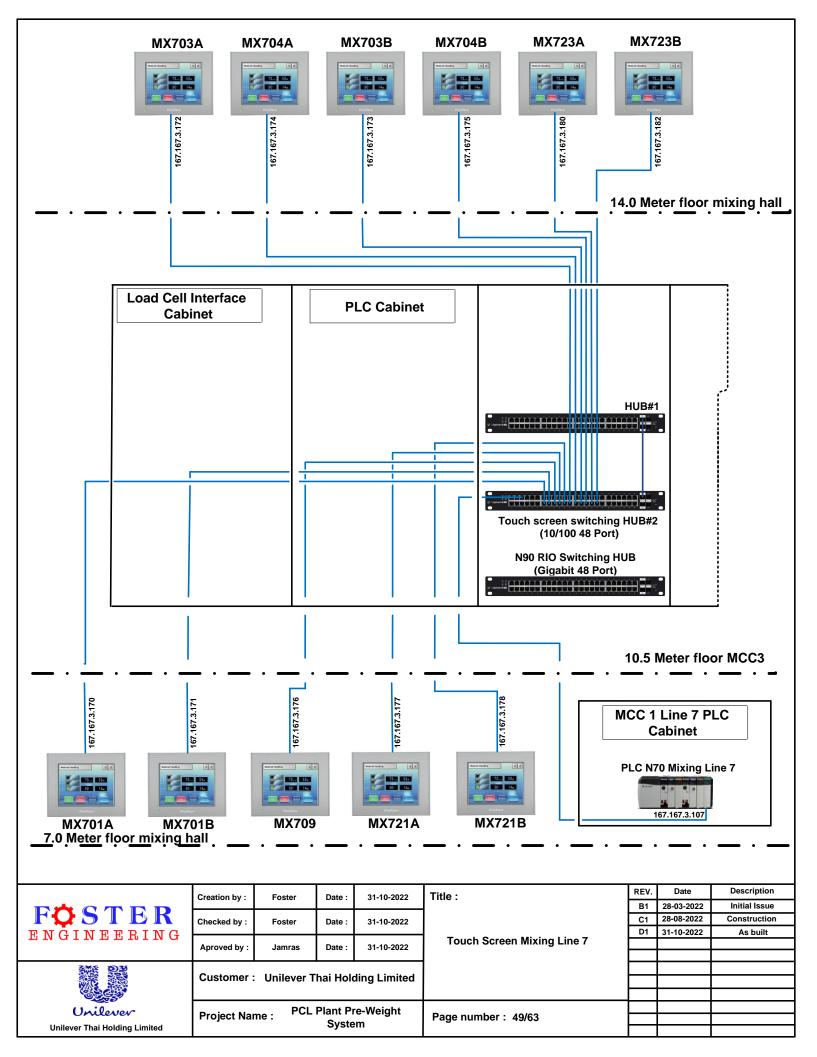


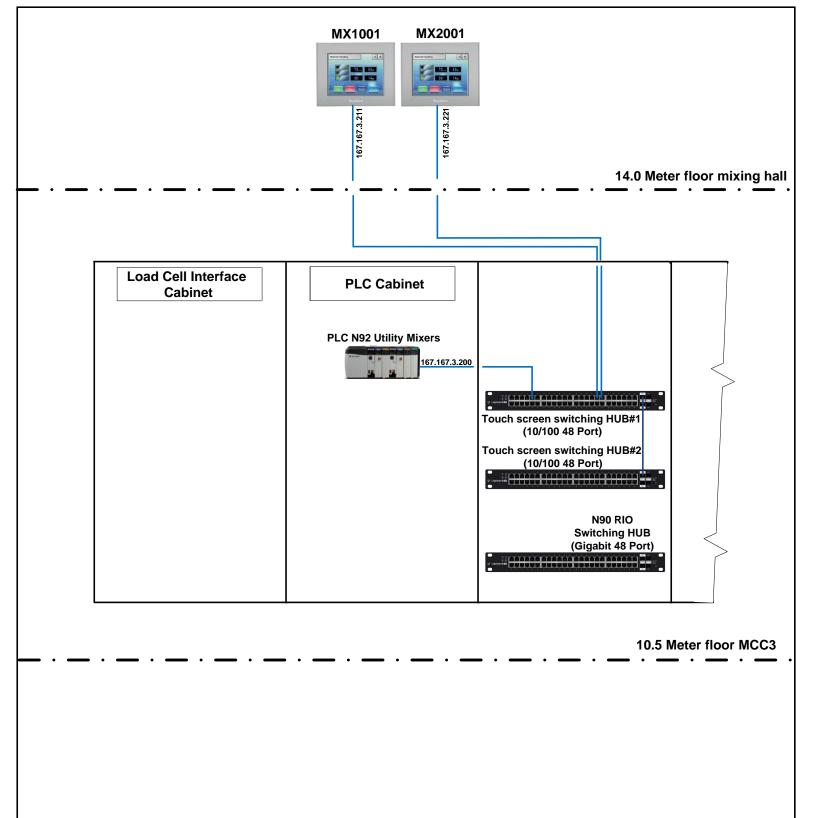
	Creation by :	Foster	Date:	31-10-2022	i litie:			-
FOSTER ENGINEERING				************		B1	28-03-2022	Initial Issue
	Checked by :	Foster	Date :	31-10-2022	Touch Screen Network	C1	28-08-2022	Construction
	·					D1	31-10-2022	As built
	Aproved by :	Jamras	Date :	31-10-2022				
300 300								
	Customer :	Unilever T	hai Holo	ding Limited				
Unilever	- · · · · ·	PCL	Plant Pr	e-Weight				
	Project Name : FCL Plant Pre-Weight System				Page number : 45/63			
Unilever Thai Holding Limited			Cysto					



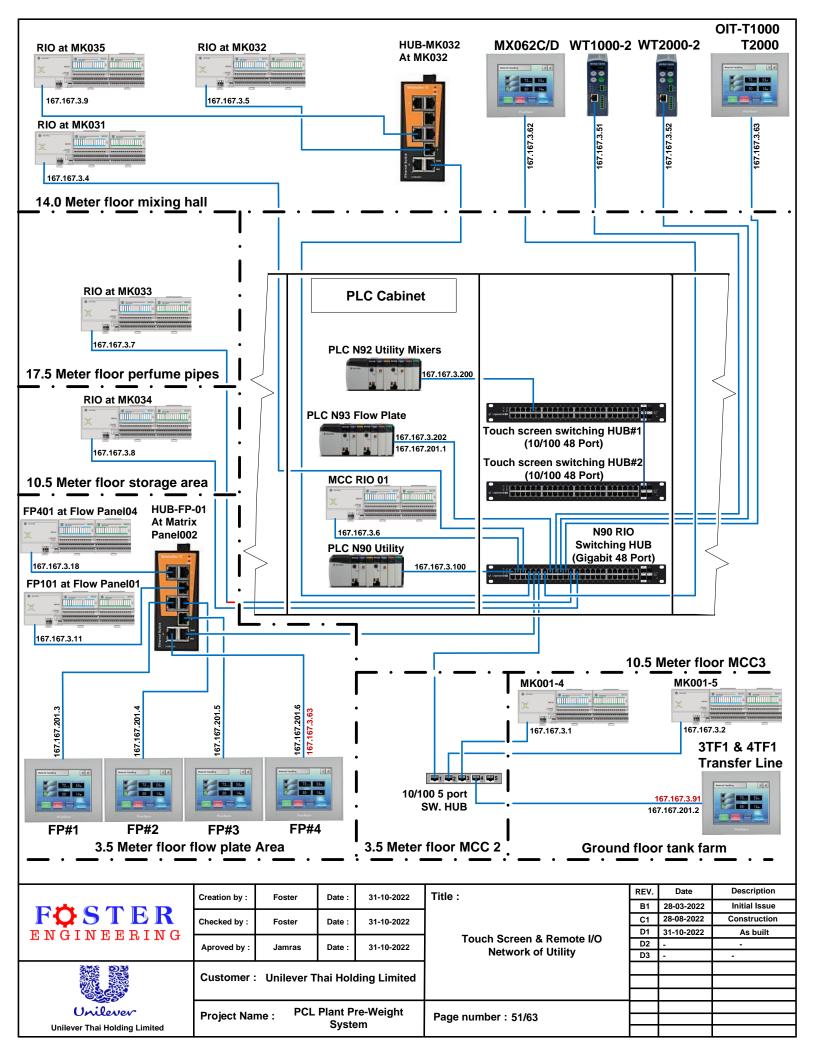








	Creation by : Foster Date : 31-10-2022 Title		Title:		Date	Description		
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FOSTER	Checked by: Foster Date: 31-10-2022		C1	28-08-2022	Construction			
ENGINEERING						D1	31-10-2022	As built
EN GINEERING	Aproved by :	proved by : Jamras Date : 31-10-2022 Touch Screen Utility Mixing	-	-	-			
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	C		! ! ! - !					
	Customer :	Unilever i	nai Hoi	ding Limited				
Unilever	Drainat No.	PCL	Plant P	re-Weight				
	Project Nai	ne: '-	Syste	Ū	Page number : 50/63			
Unilever Thai Holding Limited			System		1			



HUB#3 SCADA Network Connection List (1GB speed)

Item No.	Souce Port Number	Souce LAN Cable Mark	Destination Port Number	Destination LAN Cable Mark	Description
1	HUB#3 Port 1	H3/1-E1/8	ESXi#1 Port 8	E1/8-H3/1	ESXi#1 ILO Port
2	HUB#3 Port 2	H3/2-E2/8	ESXi#2 Port 8	E2/8-H3/2	ESXi#2 ILO Port
3	HUB#3 Port 3	H3/3-E3/8	ESXi#3 Port 8	E3/8-H3/3	ESXi#3 ILO Port
4	HUB#3 Port 4	167.167.167.XX	Control Room	167.167.167.XX	To Control Room for Spare
5	HUB#3 Port 5	167.167.167.XX	Control Room	167.167.167.XX	To Control Room for Spare
6	HUB#3 Port 6	SCADA#5	SCADA#5	SCADA#5	To Control Room SCADA#5 Thin Client
7	HUB#3 Port 7	SCADA#4	SCADA#4	SCADA#4	To Control Room SCADA#4 Thin Client
8	HUB#3 Port 8	PNT#9	PNT#9	PNT#9	To Control Room Printer (Pinter#9)
9	HUB#3 Port 9	SCADA#3	SCADA#3	SCADA#3	To Control Room SCADA#3 Thin Client
10	HUB#3 Port 10	IB#1	IB#1	IB#1	To Control Room PPIB01 Thin Client
11	HUB#3 Port 11	IB#2	IB#2	IB#2	To Control Room PPIB02 Thin Client
12	HUB#3 Port 12	SCADA#2	SCADA#2	SCADA#2	To Control Room SCADA#2 Thin Client
13	HUB#3 Port 13	SCADA#1	SCADA#1	SCADA#1	To Control Room SCADA#1 Thin Client
14	HUB#3 Port 14	INVENT	INVENT#1	INVENT	To Ware House PPINV01 Thin Client
15	HUB#3 Port 15	SPARE	Control Room	SPARE	To Control Room for Spare
16	HUB#3 Port 16	H3/16-E4/8	ESXi#4Port 8	E4/8-H3/16	ESXi#4 ILO Port
17	HUB#3 Port 17	H3/17-E5/8	ESXi#5 Port 8	E5/8-H3/17	ESXi#5 ILO Port
18	HUB#3 Port 18	H3/18-E6/8	ESXi#6 Port 8	E6/8-H3/18	ESXi#6 ILO Port
19	HUB#3 Port 19	VIEW#3	VIEW#3	VIEW#3	To Tank Farm PPVW03 SCADA
20	HUB#3 Port 20	H3/20-E7/8	ESXi#7 Port 8	E7/8-H3/20	ESXi#7 ILO Port
21	HUB#3 Port 21	None	None	None	Servered for Pre-ewight room#2
22	HUB#3 Port 22	VIEW#1	VIEW#1	VIEW#1	To In Server Rack PPVW01 Thin Client
23	HUB#3 Port 23	VIEW#2	NVIEW#2	VIEW#2	To In Server Rack PPVW02 Thin Client
24	HUB#3 Port 24	PW-Room#1	PW-Room#1	PW-Room#1	To In Server Rack Pre-ewight room#1Thin Client

	Creation by : Foster Date : 31-10-2022 Title :		REV.	Date	Description			
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FOSTER ENGINEERING	Checked by :	Foster	Date :	31-10-2022	ı		28-08-2022	Construction
					HUB#3	D1	31-10-2022	As built
	Aproved by :	Jamras	Date :	31-10-2022	Connection List 1			
	Customer	. Unilever T	hai Hol	ding Limited				
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Unilever	Project Nar	ne: PCL		e-Weight	Page number : 52/63			
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HUB#3 SCADA Network Connection List (1GB speed)

Item No. Souce Port Number		Souce LAN Cable Mark	Destination Port Number	Destination LAN Cable Mark	Description
25	HUB#3 Port 25	H3/25-ST1/5	ST#1 Port 5	ST1/5-H3/25	To SAN Storage#1 Management Port#1
26	HUB#3 Port 26	H3/26-ST1/6	ST#1 Port 6	ST1/6-H3/26	To SAN Storage#1 Management Port#2
27	HUB#3 Port 27	H3/27-ST2/7	ST#2 Port 7	ST2/7-H3/27	To SAN Storage#2 Management Port#1
28	HUB#3 Port 28	H3/28-ST2/8	ST#2 Port 8	ST2/8-H3/28	To SAN Storage#2 Management Port#2
29	HUB#3 Port 29	None	None	None	Spare
30	HUB#3 Port 30	None	None	None	Spare
31	HUB#3 Port 31	None	None	None	Spare
32	HUB#3 Port 32	None	None	None	Spare
33	HUB#3 Port 33	None	None	None	Spare
34	HUB#3 Port 34	None	None	None	Spare
35	HUB#3 Port 35	None	None	None	Spare
36	HUB#3 Port 36	None	None	None	Spare
37	HUB#3 Port 37	None	None	None	Spare
38	HUB#3 Port 38	None	None	None	Spare
39	HUB#3 Port 39	None	None	None	Spare
40	HUB#3 Port 40	None	None	None	Spare
41	HUB#3 Port 41	None	None	None	Spare
42	HUB#3 Port 42	None	None	None	Spare
43	HUB#3 Port 43	None	None	None	Spare
44	HUB#3 Port 44	None	None	None	Spare
45	HUB#3 Port 45	None	None	None	Spare
46	HUB#3 Port 46	None	None	None	Spare
47	HUB#3 Port 47	H3/47-H8/22	HUB#8 Port 22	H8/22-H3/47	
48	HUB#3 Port 48	H3/48-H9/22	HUB#9 Port 22	H9/22-H3/48	

	Creation by :	Foster	Date :	31-10-2022	Title :	REV.	Date	Description
						B1	28-03-2022	Initial Issue
FOSTER	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
ENGINEERING					HUB#3	D1	31-10-2022	As built
	Aproved by :	Jamras	Date :	31-10-2022	Connection List 2			
					Connection List 2			
	Customor	. Ilmilavan T	hai Hali	اممانسا اسمالما				
978	Customer .	. Unilever i	nai noi	ding Limited				
Customer : Unilever Thai Holding Limited								
Unilever Project Name : PCL Plant Pre-Weight		Daga number : 52/02						
Unilever Thai Holding Limited	Projectival	ne.	Syst	•	Page number: 53/63			
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HUB#4 PLC Network Connection List (1GB speed)

Item No.	Souce Port Number	Souce LAN Cable Mark	Destination Port Number	Destination LAN Cable Mark	Description
1	HUB#4 Port 1	H4/1-N10	PLC N10	N10-H4/1	To MCC#3 PLC of Mixing Line#1
2	HUB#4 Port 2	H4/2-N20	PLC N20	N20-H4/2	To MCC#3 PLC of Mixing Line#2
3	HUB#4 Port 3	H4/3-N30	PLC N30	N30-H4/3	To MCC#3 PLC of Mixing Line#3
4	HUB#4 Port 4	H4/4-N40	PLC N40	N40-H4/4	To MCC#3 PLC of Mixing Line#4
5	HUB#4 Port 5	H4/5-N50	PLC N50	N50-H4/5	To MCC#3 PLC of Mixing Line#5
6	HUB#4 Port 6	H4/6-N60	PLC N60	N60-H4/6	To MCC#1 PLC of Mixing Line#6
7	HUB#4 Port 7	H4/7-N70	PLC N70	N70-H4/7	To MCC#1 PLC of Mixing Line#7
8	HUB#4 Port 8	H4/8-N90	PLC N90	N90-H4/8	To MCC#3 PLC of Utility
9	HUB#4 Port 9	167.167.2.XX	Control Room	167.167.2.XX	To Control Room for Spare
10	HUB#4 Port 10	H4/8-N92	PLC N92	N92-H4/10	To MCC#3 PLC of Utility Mixer (MX1001 and MX2001)
11	HUB#4 Port 11	H4/8-N93	PLC N93	N93-H4/11	To MCC#3 PLC of Flow Palte
12	HUB#4 Port 12	167.167.2.XX	Control Room	167.167.2.XX	To Control Room for Spare
13	HUB#4 Port 13	None	None	None	Spare
14	HUB#4 Port 14	None	None	None	Spare
15	HUB#4 Port 15	FL-A2	Packing Hall	FL-A2	To Packing Hall Filling Line A2 for Data Recording
16	HUB#4 Port 16	Digital Server	Digital Server	Digital Server	To Digital Plant Server
17	HUB#4 Port 17	LEV	LEV PLC	LEV	To 21 Meter Floors LEV PLC
18	HUB#4 Port 18	Digital Server	Digital Server	Digital Server	To Digital Plant Server
19	HUB#4 Port 19	None	None	None	Spare
20	HUB#4 Port 20	None	None	None	Spare
21	HUB#4 Port 21	None	None	None	Spare
22	HUB#4 Port 22	None	None	None	Spare
23	HUB#4 Port 23	H4/23-H8/23	HUB#8 Port 23	H8/23-H4/23	
24	HUB#4 Port 24	H4/24-H9/23	HUB#9 Port 23	H9/23-H4/24	

	Creation by :	Foster	Date :	31-10-2022	Title :	REV.	Date	Description
	0.000.00.00		B1	28-03-2022	Initial Issue			
FOSTER ENGINEERING	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
	HUB#4	D1	31-10-2022	As built				
	Aproved by :	Jamras	Date :	31-10-2022	Connection List			
					Connection List			
	Customor	Unilover T	bai Hale	ding Limited				
	Customer	Offiliever	паі пок	ang Limited				
Unilever	Project Nan	Project Name : PCL Plant Pre-Weight System		Page number : 54/63				
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HUB#5 PreW Network Connection List (1GB speed)

Item No.	Souce Port Number	Souce LAN Cable Mark	Destination Port Number	Destination LAN Cable Mark	Description
1	HUB#5 Port 1	PNT-PWS-02	PNT-PWS-02	PNT-PWS-02	To Pre-Weight Room#2 Barcode Printer
2	HUB#5 Port 2	OIT-PWS-02	OIT-PWS-02	OIT-PWS-02	To Pre-Weight Room#2 PC Panel
3	HUB#5 Port 3	PNT-PWS-03	PNT-PWS-03	PNT-PWS-03	To Pre-Weight Room#3 Barcode Printer
4	HUB#5 Port 4	OIT-PWS-03	OIT-PWS-03	OIT-PWS-03	To Pre-Weight Room#3 PC Panel
5	HUB#5 Port 5	PNT-PWS-01	PNT-PWS-01	PNT-PWS-01	To Pre-Weight Room#1 Barcode Printer
6	HUB#5 Port 6	OIT-PWS-01	OIT-PWS-01	OIT-PWS-01	To Pre-Weight Room#1 PC Panel
7	HUB#5 Port 7	PNT#10	PNT#10	PNT#10	To Pre-Weight Room#1 Printer (Printer#10)
8	HUB#5 Port 8	WT-PWS-01	WT-PWS-01	WT-PWS-01	To Pre-Weight Room#1 Weight Controller
9	HUB#5 Port 9	WT-PWS-02	WT-PWS-02	WT-PWS-02	To Pre-Weight Room#2 Weight Controller
10	HUB#5 Port 10	WT-PWS-03	WT-PWS-03	WT-PWS-03	To Pre-Weight Room#3 Weight Controller
11	HUB#5 Port 11	PNT-INV-01	PNT-INV-01	PNT-INV-01	To Ware House Inventory Barcode Printer
12	HUB#5 Port 12	None	None	None	Spare
13	HUB#5 Port 13	None	None	None	Spare
14	HUB#5 Port 14	None	None	None	Spare
15	HUB#5 Port 15	None	None	None	Spare
16	HUB#5 Port 16	None	None	None	Spare
17	HUB#5 Port 17	None	None	None	Spare
18	HUB#5 Port 18	None	None	None	Spare
19	HUB#5 Port 19	None	None	None	Spare
20	HUB#5 Port 20	None	None	None	Spare
21	HUB#5 Port 21	None	None	None	Spare
22	HUB#5 Port 22	None	None	None	Spare
23	HUB#5 Port 23	H5/23-H8/24	HUB#1 Port 24	H1/24-H4/23	
24	HUB#5 Port 24	H5/24-H9/24	HUB#2 Port 24	H2/24-H4/24	

	Creation by :	Foster	Date :	31-10-2022	Title :	REV.	Date	Description
				***************************************		B1	28-03-2022	Initial Issue
FØSTER ENGINEERING	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
	HUB#5	D1	31-10-2022	As built				
	Aproved by :	Jamras	Date :	31-10-2022	Connection List			
					Connection List			
	Customer	. Ilmilavar T	Thai Holding Limited					
9 /03	Customer	. Unilever i	nai noi	aing Limited				
Unilever	Brainet Nor	Project Name : PCL Plant Pre-Weight System		Pre-Weight	Dana mumban - 55/00			
Unilever Thai Holding Limited	Froject Nar			•	Page number: 55/63			
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HUB#8 Router Network Connection List (1GB speed)

Item No.	Souce Port Number	Souce LAN Cable Mark	Destination Port Number	Destination LAN Cable Mark	Description
1	HUB#8 Port 1	H8/1-E1/0	ESXi#1 Port 0	E1/0-H8/1	
2	HUB#8 Port 2	H8/2-E2/0	ESXi#2 Port 0	E2/0-H8/2	
3	HUB#8 Port 3	H8/3-E3/0	ESXi#3 Port 0	E3/0-H8/3	
4	HUB#8 Port 4	H8/4-E4/0	ESXi#4 Port 0	E4/0-H8/4	
5	HUB#8 Port 5	H8/5-E5/0	ESXi#5 Port 0	E5/0-H8/5	
6	HUB#8 Port 6	H8/6-E6/0	ESXi#6 Port 0	E6/0-H8/6	
7	HUB#8 Port 7	H8/7-E7/0	ESXi#7 Port 0	E7/0-H8/7	
8	HUB#8 Port 8	H8/8-E6/4	ESXi#6 Port 4	E6/4-H8/8	
9	HUB#8 Port 9	H8/9-E7/4	ESXi#7 Port 4	E7/4-H8/9	
10	HUB#8 Port 10	None	None	None	Spare
11	HUB#8 Port 11	None	None	None	Spare
12	HUB#8 Port 12	None	None	None	Spare
13	HUB#1 Port 13	None	None	None	Spare
14	HUB#8 Port 14	None	None	None	Spare
15	HUB#8 Port 15	None	None	None	Spare
16	HUB#8 Port 16	None	None	None	Spare
17	HUB#1 Port 17	None	None	None	Spare
18	HUB#8 Port 18	None	None	None	Spare
19	HUB#8 Port 19	None	None	None	Spare
20	HUB#8 Port 20	None	None	None	Spare
21	HUB#8 Port 21	None	None	None	Spare
22	HUB#8 Port 22	H8/22-H3/47	HUB#3 Port 47	H3/47-H8/22	
23	HUB#8 Port 23	H8/23-H4/23	HUB#4 Port 23	H4/23-H8/23	
24	HUB#8 Port 24	H8/24-H5/23	HUB#5 Port 23	H5/23-H8/24	

	Creation by :	Foster	Date :	31-10-2022	Title :	REV.	Date	Description
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FØSTER ENGINEERING	Checked by: Foster Date: 31-10-2022 HUB#8	C1	28-08-2022	Construction				
		HUB#8	D1	31-10-2022	As built			
	Aproved by :	Jamras	Date :	31-10-2022	Connection List			
					Connection List			
	Customor	. Unilover T	hai Hal	ding Limited				
7 78 2 8	Customer .	. Uninever i	nai noi	ung Limited				
Unilever	Project Nar	PCL	Plant P	re-Weight	Dana mumban - 50/00			
Unilever Thai Holding Limited	Froject Nar	ile.	Syst		Page number : 56/63			
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HUB#9 Router Network Connection List (1GB speed)

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Item No.	Souce Port Number	Souce LAN Cable Mark	Destination Port Number	Destination LAN Cable Mark	Description					
1	HUB#9 Port 1	H9/1-E1/6	ESXi#1 Port 6	E1/6-H9/1						
2	HUB#9 Port 2	H9/2-E2/6	ESXi#2 Port 6	E2/6-H9/2						
3	HUB#9 Port 3	H9/3-E3/6	ESXi#3 Port 6	E3/6-H9/3						
4	HUB#9 Port 4	H9/4-E4/6	ESXi#4 Port 6	E4/6-H9/4						
5	HUB#9 Port 5	H9/5-E5/6	ESXi#5 Port 6	E5/6-H9/5						
6	HUB#9 Port 6	H9/6-E6/1	ESXi#6 Port 1	E6/1-H9/6						
7	HUB#9 Port 7	H9/7-E7/1	ESXi#7 Port 1	E7/1-H9/7						
8	HUB#9 Port 8	H9/8-E6/5	ESXi#6 Port 5	E6/5-H9/8						
9	HUB#9 Port 9	H9/9-E7/5	ESXi#7 Port 5	E7/5-H9/9						
10	HUB#9 Port 10	None	None	None	Spare					
11	HUB#9 Port 11	None	None	None	Spare					
12	HUB#9 Port 12	None	None	None	Spare					
13	HUB#9 Port 13	None	None	None	Spare					
14	HUB#9 Port 14	None	None	None	Spare					
15	HUB#9 Port 15	None	None	None	Spare					
16	HUB#9 Port 16	None	None	None	Spare					
17	HUB#9 Port 17	None	None	None	Spare					
18	HUB#9 Port 18	None	None	None	Spare					
19	HUB#9 Port 19	None	None	None	Spare					
20	HUB#9 Port 20	None	None	None	Spare					
21	HUB#9 Port 21	None	None	None	Spare					
22	HUB#9 Port 22	H9/22-H3/48	HUB#3 Port 48	H3/48-H9/22						
23	HUB#9 Port 23	H9/23-H4/24	HUB#4 Port 24	H4/24-H9/23						
24	HUB#9 Port 24	H9/24-H5/24	HUB#5 Port 24	H5/24-H9/24						

	Creation by : Foster Date : 31-10-2022 Title :		Title :	REV.	Date	Description		
						B1	28-03-2022	Initial Issue
FOSTER	Checked by :	Foster	Date :	31-10-2022		C1	28-08-2022	Construction
ENGINEERING					HUB#9	D1	31-10-2022	As built
	Aproved by :	Jamras	Date :	31-10-2022	Connection List			
		Connection List						
	Customor	. Unilover T	bai Hal	ding Limited				
	Customer	Unitever	nai noi	ang Limited				
Unilever	Broject Nar	Project Name : PCL Plant Pre-Weight System		re-Weight	Daga number - 57/02			
Unilever Thai Holding Limited	Project Nai			Page number : 57/63				
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Power Distribution



Creation by :	Foster	Date :	31-10-2022
Checked by :	Foster	Date :	31-10-2022
Aproved by :	Jamras	Date :	31-10-2022



Customer :	Unilever Thai Holding Limited

Project Name:

PCL Plant Pre-Weight

System

REV.	Date	Description	Т
B1	28-03-2022	Initial Issue	
C1	28-08-2022	Construction	
D1	31-10-2022	As built	
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Description
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Initial Issue
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