ips	INTEGRATED PROJECT SERVICES B07A PROCESS EQUIPMENT LIST														- 11			Take	eda	TAKEDA / HEMOBRAS PROJECT NAME: BURITI PROJECT NO.: 17019493.01													
EQUIPMENT SYSTEM SYSTEM	SPECIFICATION NO.	DRAWING NO.	TAG NO.	ROOM CAPACITY O MODEL NUMBER	R CAPACITY OR MODEL	EQUIP. MANUF.	DIMEN. WEIGHT FURNISHED NEW. (LxDsH) in mm (kg.) By EXISTIN	LEAD TIME	IMPORTED	PLANT CON STEAM RETT (KG/HR (LP	ND. STEAM	PROC. CHELED	PROC. INDUSTR CHILLED AL WATE WTR (LPM)	TEMPERED WATER SUPPLY	TEMPERED WATER	TOWER TOW WATER WA	WER RO	HWFI	AWTI CI (LPM) (LP	CIP	VENT TO EXTERIOR	PROC. SAI	L (KGHR)	N2	CO2 CI (NLPH (NL) (BARG) @ BA	CLEAN COMPR.	COMPR. (INSTR.) (AIR (NLPM)	nobrás ELECT. VerpS, VA, or	ELECT. (AMPS, VA, o	EMERG. POWER PO	PS NER &	ROLS / AUTOMATION	PCS CONTROLLED
Fill Finish - Formulation					R CAPACITY OR MODEL FROM NEUCHATEL	MANUF.		1	(YES / NO)	(KG/HR (LP (B BARG)	(KG/HR (B BARG	SUPPLY	RETURN (LPM)	(FROM TCU) (LPM)	RETURN (FROM TCU)	SUPPLY RET	PM) (LPM	(LPM)	(LPM) (LP	M) (LPM)	(NLPM or LINE SIZE /	(LPM) (LPI	A) @ 3.5 BARG	@ 4 BARG @	BARG) g BA	COMPR. AIR (NLPM)	AIR (NLPM)	KW) @ (60/220 VAC	KW) @ 3/69/360 VAC	POWER PO ONLY C	EN.	NOCS / NOTOWATION	OR NOTES PACKAGED
Rufrigerator (Gutathion Storage) Bufricarator Floor Scale	Texnier Texnier		FR-3901	Formulation Room Buffer Prep Formulation 500 kg			237 New 237 New		No No														_					15 Amps			_		
	Tensier URS-079	7A-Z-0-2-02					237 New 1000mm x 336 New 1000mm		No No																			15 Amps 1 Amp			Υ		PCS
Floor Scale Serich Scale No. 1 Serich Scale No. 2	URS-079 Texaler Texaler	/A-2-9-2-01	BL-3801 BL-3901	Buffer Prep 500 kg Buffer Prep Formulation			1000mm x 336 New New New		No No																			1 Amp 1 Amp					K.S
Thew Bath	Texaler		BDT-3901	Room Formulation Room			30 New		No																			0.5 kW		Y			
Point of Use Cooler to Buffer Prep	URS-095 TS-007	7A-Z-0-2-26	TC-6403	Buffer Prep 80 to 20 C	FI Phygienic shell an tube		Dry. 165, Wet: 210 New 650mm x 300mm x 140 New		Yes			120	120 @ 6°C									12				30	60	2 Amps	0.25 kW	Ţ		×	OEM
Suffer Prep Utility Station Mobile Buffer Product Vessel No. 1 - Buffer Prep	TS-007 URS-089	7A-Z-0-2-01 7A-Z-0-2-01	UP-3801 TQ-3801		-		650mm x 300mm x 140 New 950mm x 400mm Dry; 250, TT Wet: 300 New		No No									12			1 1/2" / Roof		+		_	30		Panel	0.25 kW	Y		×	PCS Nominal SQL Max WV 65L
Suffer Hold Cooling Station No. 1	TS-007	7A-Z-0-2-01	UP-3802	Buffer Prep			650mm x 300mm x 140 New		No			38	38 @ 6°C													30		From Control Panel	0.25 KW	Y		×	PCS
Mobile Buffer/Product Vessel No. 2 - Buffer Prep	URS-089	7A-Z-0-2-01	TQ-3502	Buffer Prep 50 L			405mm x 405mm Dry: 250, TT Wet 300 New		No			35	31.00.00													30		Same Constant	0.25 kW			×	PCS Nominal SQL Max WV 6SL, TV 62L
Suffer Hold Cooling Station No. 2 Mobile Buffer Product Vessel No. 3 - Starfe Buffer Hold	TS-007 URS-089	7A-Z-0-2-01 7A-Z-0-2-01	UP-3803 TQ-3803	Buffer Prep 50 L			650mm x 300mm x 140 New 960mm 400mm Dry; 250, New		No No			35	AT													30		Panel	0.25 KW	Y		×	PCS Nominal SSL, Max WV 6SL, TV 831
Mobile Buffer Product Vessel No. 3 - Sterile Buffer Hold Conductivity Meter pH Meter	URS-089 Tessier Tessier		CV-3801 PH-3801	Buffer Prep 50 L Buffer Prep Buffer Prep Formulation	Orion Star A212 Orion Star A211	Thermo Thermo	950mm Dry. 250, New TT Wet: 300 New 1 New New 1 New		No No No																			1 Amp 1 Amp					TV 82L
pH Meter	Texaler		PH-3901 CV-3901	Formulation Room Formulation Formulation Formulation	Orion Star A211 Orion Star A211 Orion Star A212	Thermo Scientific Thermo	1 New 1 New 1 New		No No		_																	1 Amp					
Conductivity Mater Suffer Hold Cooling Station No. 3	Texaler TS-007	7A-Z-0-2-02	CV-3901 UP-3901	Room Formulation	Orion Star A212	Scientific	1 New 650mm x 300mm x 960mm 140 New		No No			38	36 G 6 C								1 1/2" / Roof		+		_	30		1 Amp	0.25 kW			×	PCS
Mobile Buffer/Product Vessel No. 4 - Sterile Buffer Hold	URS-089	7A-Z-0-2-02	TQ-3804	Room Formulation Room Formulation SO L Formulation			406mm x 400mm Dry. 250, TT Wet: 300 New		No				Al															Panel				×	PCS Nominal SQL Max WV 65L, TV 831
Suffer Hold Cooling Station No. 4 Mobile Buffer Product Vessel No. 5 - Formulation	TS-007 URS-089	7A-Z-0-2-02 7A-Z-0-2-02					650mm x 200mm x 140 New 960mm 400mm Dry; 250, New		No No		_	38	38 @ 6°C								1 1/2" / Roof					30		From Control Panel	0.25 KW			×	PCS Nominal SQL Max WV 65L
Mobile Buffer Product Vessel No. 5 - Formulation Product Formulation Utility Station	URS-089 TS-007	7A-Z-0-2-02 7A-Z-0-2-02	TQ-3805 UP-3903	Room 50 L Formulation Room			050mm x 200mm z 140 New 200mm x 400mm Dry 200 New 200mm x 400mm Dry 200 New 200mm x 200mm x 140 New 200mm x 400mm x 400mm Dry 200 New 200mm x 400mm Dry 200 New 200mm x 200mm		No No					38	38						1 1/2" / Roof					30		From Control Panel	0.25 KW	Y		x x	PCS Nominal SQL Max WV 6SL, TV 82L. PCS
Formulation Vessel TCU	TS-005	7A-Z-0-2-10	TCU-3903	Ground Floor Utilities 38 LPM			1600, New Mark		No	23 @ 4 0.3	38	35	38 @ 6°C									20					60	25 Amps	1.15 kW			×	OEM
Mobile Vessel No. 6 - Spare	URS-089	7A-Z-0-2-02	TQ-3806	Clean Equip. 50 L			406mm x 400mm Dry: 250, TT Wet: 300 New		No																							×	PCS Nominal SQL Max WV 6SL, TV 62L. PCS Nominal SQL Max WV 6SL, TV 62L.
Mobile Vessel No. 7 - Spare Fiber bringerby Tenter	URS-089 URS-086	7A-Z-0-2-02	TO-3807 FIT-8501	Clean Equip. 50 L Pre-Wash			Web 1990 1990 1990 1970 1970 1970 1970 1970		No No																	60		0.075 +W				x	PCS Nominal SQL Max WV 6SL, TV 82L
Fiber Integrity Tester	URS-086		FIT-9001	Clean Equip. 50 L Pre-Wash Clean Equipment Buffer Prep Formulation Room			10.5 New		No No																	60		0.075 kW				×	POS POS
HT Meller Furne Hood Laminar Flow Hood	Tennier Tennier Tennier		PH-2000 FH-3801 LFH-3801	Buffer Prep Formulation	1		1 New 175 New 375 New	1	No No																			5 Amps 5 Amps		Y			
Sterile Filtration Skid	URS-076	7A-Z-0-2-03	FIL-3901	Formulation 0.5 LPM			700mm x 1000mm x 1000, New Yet		No		30 @ 1								2	20		4 @ 0.8 BARG				30	60	From Control Panel		Y		×	PCS Ability to integrity in place post sterilization pre-use.
Sterile Filter Welting Pump	URS-094	7A-Z-0-2-03	BPR-3901	Formulation Up to 4 LPW Room TSX500D Presper Room TSX500D	500 Series	Watson-Marlow	10 New		Yes																			135 vA				×	PCS Power provided via receptacle.
Fosser (-50 C) Fosser (-50 C) Filt Fish - Vist Filing Line w/ Freeze Dryleg and Capping	Texaler Texaler		FS-2001 FS-2002	Freezer Room TSX6000 Freezer Room TSX6000		ThermoFisher ThermoFisher	385 385																										
Visi Washing Machine	URS-001	7A-Z-0-2-04	ML-1101	Component Load Room Hydra 1000		IMA Life	3655mm L x Dry: 1650mm D x 1650, IMA Life New 2954mm H West	58	Yes									37			13333 / Duct	37 @				3800	10	rom Remote	From Remote Electrical Pane			×	OEM Vent using thimble connection to mechanical ductwork.
Visi Washing Machine and Depyrogenation Tunnel - Electrical and Control Planel	URS-001	7A-Z-0-2-04	(remote electrical panel for ML-	Technical Area		MA Life	2554mm H Web 3615mm L x 600mm W x 650 MA Life New 2100mm H	58	Yes																				72 kW		Y	×	OEM
	URS-001	7A-Z-0-2-04	1902) TE-1102	Filing Room Blue Galaxy 5		MA Life		58	Yes			83.3	87.3 @ 83.3 @									37 (g)						from Remote	From Remote			×	OEM Ventusing thimble connection
Depyrogenation Tunnel Filling and Stoppering Machine	URS-001	7A-Z-0-2-04 7A-Z-0-2-04		Filing Room Blue Galaxy 5 Smart - Filing Filing Room and Stopperin Machine		MA Life	MODERN L x	50	Yes			83.3	6°C AT								13333 / Duct	ZRAVITY	_		_				Electrical Pane From Remote			×	CIEM Vent using thimble connection to mechanical ductwork. CIP and CIS supplied through the product feed line via the sterfer filter skid.
			(remote	Frang room and Stoppere Machine	9																							lectrical Panel	Electrical Pane				
Pilling and Stoppering Machine - Electrical and Control Panel	URS-001	7A-Z-0-2-04	electrical panel for ML- 1101 & EV- 11031	Technical Area		MA Life	3200mm L x 600m W x 2100mm H 1100 BMA Life New	58	Yes																				18 kW		Υ	×	CEM
Laminar Flow Unit and Electrical Cabinet - Filling and Stoppering Machine	URS-002		LFU-A2025- 1 LFU-A2025- 1	Filling Grade A 50,000 CMP Supply Filling Grade A 50,000 CMP		MA Life	850 MA Life New	50																					5.5 kW		Y	x x	OEM Located in Walkable Celling OEM
Leminar Flow Unit and Electrical Cabinet-Rotary Table Lyo No. 1 - Preson Dryer Chember, Condenser, Cold Box, and Vacuum Takeda	URS-002	7A-Z-0-2-08	2 LYO-1105	Supply 50,000 CMH Lyo Tech Area / Tech Area	1	MA Life	750 IMA Life New 27200 IMA Life New		Yes		112 @ 3	221	221 @ 6°C 36					305			1/2x34*, 3/4x1/4*, 3*,	320 @	1004	510		543	60	From Main Power Panel	2 kW 75 kVA		ν .	x	OEM
Lyo No. 1 - Preeze Dryer Chember, Condenser, Cold Box, and Vacuum Takeda Pumpa The Processino Eculorent SCADA Rack	URS-001 and URS-112		TBD	Control Room		IMA Life					112 65	221	AT 20								2,2/Roof	ZRAVITY	1000	310		~		Power Panel	5 kW		Y Y	×	OEM
Lyo Automated Loading Unloading System	URS-112	7A-Z-0-2-04	1105/6 (remote	Filling Room CLU-LF12		MA Life	1400 BMA Life New	58	Yes		_															3		From Main Power Panel	75 KVA		Υ	×	OEM
Automated Loading Unloading System - Electrical and Control Panel Lember Flow Unit and Electrical Cabinst- Automated Loading/Unloading	URS-112	7A-Z-0-2-04	panel for ALUS-	Technical Area		MA Life	600 MA Life New	58	Yes																				4 kW		Y	×	OEM
System	URS-002		4	Filling Grade A Supply 50,000 CMI Lyo Tech Area / Tech Area	1	MA Life	750 MA Life New		Yes				221 00 610								1/2x3/4", 3/4x1/4", 3",	270.00						From Main	4 kW		Y	×	OEM
	URS-112	7A-Z-0-2-09 7A-Z-0-2-04	LYO-1106	/ Tech Area Casoing Stericas		MA Life	27200 MA Life New	58			112@3	221	221 @ 6°C 36					305			3/4x1/4", 3", 3", 3" / Roof	ZRAVITY	1095	510		543		From Main Power Panel Error Main	From Remote Electrical Pane			x x	OEM
Capping Machine			CTM-1104 (remote				1955mm L x 9050m W x 1800 IMA Life New																				100	Power Panel	Electrical Pane				
Capping Machine - Electrical and Control Panel	URS-001	7A-Z-0-2-04	panel for CTM-1104)	Technical Area		MA Life	1600mm L x 600m W x 2100mm H BMA Life New	58	Yes																				5 kW		Υ	×	OEM
Laminar Flow Unit and Electrical Cabinat - Capping Machine Tray Loading Machine	URS-002 URS-001		5	Filing Grade A Supply 50,000 CMI Capping Stericap	1	MA Life	2500mm L x 1500 IMA Life New		Yes																		10	From Main	4 kW From Remote		Y	×	OEM
Tray Loading Machine - Electrical and Control Panel	URS-001		(remote electrical panel for tray	Technical Area		MA Life	17501.01.5		Yes																		~	Power Panel	Electrical Pane 1 kW			×	OEM
Tray Loading Machine - Electrical and Control Panel Ell Finish - Wash	URS-001		panel for tray loader)			MA Life		50	Yes																				1 kW		Y	×	OBM
Pasa-Thru' Parta Washer	LIRS-086	7A-Z-0-2-07	LV-4601	Pre-Wash / 1100mm W : Clean Equip. 825mm H x 635mm D	Sanis: Steris		Overalt: 1790mm Dry. W x 1400mm D x 1135, New 3050mm H 1330		Yes									20			12825 / Mech. Duct	20 @ SRAVITY				425	60	5 Amps	3.7 kW			×	OEM Vent using thimble connection to mechanical ductwork.
Pass-Thru/ Parts Washer Corts	URS-086	7A-Z-0-2-07	2	Pre-Wash / 316L SS Clean Equip.			45 New		Yes													20.00											
CIP Skid (Supplys Filler and CIP/SIP Station)	URS-069	7A-Z-0-2-21	CIP-7701	Ground Floor Utilities Tank (Q 60 LP	n M		2160, New 4130		Yes	25 @ 4 0.4	42							60				Gravity, 100 (t) 2 BARG				283	60	0.5 kW	11.25 kW			×	CIEM
Mobile Vessel CIPISP Station	URS-092	7A-Z-0-2-22	STA-4701	MAL CIP: 60 LPN CIP/SIP SIP: 30 kg/h	,		300 New		No		30 (g) 1								60	60	1 1/2" / Outside	+1 @ 1 BARG, 2 LPM @ Gravity				114		rom Control Panel	0.25 kW			*	CEM
Point of Use Cooler to Clean Equipment / Assptic Staging	URS-095	7A-Z-0-2-26	TC-6404	Clean Equip./ 12 LPM HWT Asseptic 80 to 20 C	FI Hygienic shell an tube	-	Dry: 185, Wet: 210		Yes			120	120 @ 6°C									12					60	2 Amps				×	OEM
Local Control Panel	Texaler	7A-Z-0-2-22		Assetic			200mm W x 200mm D x 20																					From Control Panel				×	PCS
Pass-Thru' Autoclave Steam Sterilizer Carls	URS-059	7A-Z-0-2-05	2	Clean Equip / 3162, 55 Assetic Chamber:	-	-	45 New Overal: 2500mm Dry:	+	Yes																								
Pass-Thru' Autoclave Steam Sterilizer Pass-Thru' Decon Autoclave Steam Sterilizer Carts	URS-059 TS-001	7A-Z-0-2-05 7A-Z-0-2-05	AT-9001 CRT-9002-1/	Assplic Chamber: Clean Equip./ Assplic 1200mm W: Staging 1500mm D Decon 310, 55			Overalt 2500mm Dry: 4650, New 3050mm H 7842 45 New		Yes	120 @ 4 2.0	00 500 @ 3	167	167 @ 6°C 25									10 gg ZRAVITY				1000	60	5 Amps	8.5 kW			×	OEM
Pass-Thru' Decon Autoclave Steam Seritor	TS-001	7A-Z-0-2-05	AT-9002	Decon 1200mm W : Autoclave 1200mm H : 1500mm D	X Basis: Steris		Overal: 2900mm Dry. 4680, Wet 3050mm H 7842		Yes	120 @ 4 2.0	500 @ 3	167	167 @ 6°C 25									10 @ ZRAVITY					1060	5 Amps	8.5 kW			×	OEM
Critical Utilities Purdiesi Walter Spriem - Hal White Santisand WH 19 Sill Diese Stewn Gerwards of Santjain Cooke	URS-103	7AZ-0-2-23	RO-6301	Ground Floor Utilities 23 LPM Ground Floor Littlies 37 LPM (§ 85 Ground Floor Littlies 339 kg/hr	Park MER PRO		Web New S550 New Web New New		Yes				30				23 @					23 @ SPAVITY 3 X T	.2"				60	5 Amps	30 KW		Υ	×	OEM
WFI Stat	URS-077 URS-070	7AZ-0-2-24 7AZ-0-2-27	MES-6401	Ground Floor 17 LPM (2 85 Utilities 17 LPM (2 85	C Basis: MES 6000	Paul Mueller Paul Mueller	Wet New 1860 Wet New	1	Yes	345@9 5.7 1010@8 1		240 25	240 @ 6°C AT 25 @ 6°C				23	13			1 1/2" / Outside 2 1/2", 3" /	20 (g ZRAVITY 30					60	5 Amps	2.5 kW		Y	×	OEM
Clean Steam Generation will Sample Cooler Point of Use Cooler to Weah Sink FORW IF Pumping Stid or Heat Eschangera, Institutementation Redundant	URS-095	7AZ-0-2-25	TC-6402			Paul seudier	1970 New Dry. 185, Wet: 210 New Wet:		Yes	~10gs 1		120	ΔT					13			Outside	12					60		DKW			×	OEM
Rot WFI Pumping Skid will Heat Eachangers, Instrumentation Redundant Pumps and Control Panel Not WFI Storage Tank will Vent Filter Housing and Housing Heater	URS-068	7A-Z-0-2-25		Pre-Wash 80 to 20 C Ground Floor 120 LPM and Utilities 595 LPM	-		Wet 210 Wet 3550 New		No	165@4 0.	25											40					60	5 Amps	10.5 KW		Υ	×	OEM
Not WFI Storage Tank w/ Vent Filter Housing and Housing Heater Process Waste Sump Lift Station	URS-068 TS-004	7AZ-0-2-25 7AZ-0-2-31	TQ-6401 SK-8001	Cround Floor LD DNI Inc. Ground Floor 4000 L Utilities 1000 L / 300 Utilities LPM	10001 74-1		Vec Vec New	-	Yes							1910 15	210	17			4º / Optober	17					60	2.4 Amps from Control	3 kW	Y		x x	PCS OEM
Process Wasse Gump Litt Gason Bulk Liquid Nilrogen Storage Tank w/ Evaporator	Tessier	7AZ023I	TQ-2600	Utilities LPM Ground Floor - 35,000 L Outside	940 Nm3hr		1000mm x Wet New Dry. 17600, Wet Lease	1	No No																			Panel 5 Amps		H		×	OEM
N2 Gas Distribution Filters	URS-080	7AZ-0-2-34	FGA-8600-1/	Ground Floor 510 NLPM, T			46400 1 RD X 10"H New		No																								
Clean Steam Sample Coder Clean Steam Sample Coder	URS-070 URS-070	7A-Z-0-2-25 7A-Z-0-2-25	TC-6501 TC-6502	Lyo Tech 55C20 Lyo Tech 55C20					No No		30 G 3	7	7 @ 6°C 7 @ 6°C									0:											
CIP Cleaning Chemical Containment Pallet #1 CIP Cleaning Chemical Containment Pallet #2	TS-002 TS-002	7A-Z-0-2-20 7A-Z-0-2-20	CN-4301 CN-4302	Lyo Tech 55C20 Lyo Tech 55C20 Lyo Tech 55C20 Ground Floor Littles Ground Floor Littles Ground Floor Littles 1300 L Littles 12 LPM	1		4.2 New 4.2 New Cry: 147, New West Cry: 147, New West Vect 210mm W x	-	No No																			Panel From Control					
CIP Cleaning Chemical Pump	URS-067	7A-Z-0-2-20	80-4301	Ground Floor Utilities 12 LPM		Wilden	210mm W x 15 New		No																		600	Panel From Control Panel				×	PCS

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ENDRO / Appropriet for A PC None