DRUG SUBSTANCE AUTOMATION ELECTRICAL LOAD LIST

0	LOOLIED FOR	R CONSTRUCTION CONSIDERING COMMENTS							7				
3	ISSUED FOR	CONSTRUC	HON CONSID	ERING COMM	IENIS								
2	ISSUED FOR CONSTRUCTION CONSIDERING COMMENTS												
1	ISSUED FOR	ISSUED FOR CONSTRUCTION CONSIDERING COMMENTS						TESSLER		1 ■1Hemobrás			
0	ISSUED FOR	SSUED FOR CONSTRUCTION								engenharia IPS	Takeda	Empresa brasile ra de ham oderivados e brotecnologia	
В	90% DD ISSU	90% DD ISSUE											
Α	30% DD ISSUE								DOC NR:	CLIENT NR:			
REV	DESCRIPTION										569-DB7B-AIC-300-001 PRD-AIC-LIS-018		
REVIEW	REV. A	REV. B	REV. 0	REV. 1	REV. 2	REV. 3	REV. 4	REV. 5	REV. 6	REV. 7	CLIENT:		
DATE	18FEB2021	15OCT2021	02DEC2021	03DEC2021	14DEC2021	17DEC2021					TAKEDA / BAXALTA		
EXEC	AAS	AAS	MAB	MAB	MAV	MAV					PROJECT:		REV.:
CHECK	MAF	MAF	MAF	MAF	MAF	MAF					BURITI EPCVM PROJECT		2
APPROV	MAJ	RSP	RSP	RSP	RSP	RSP							3







DRUG SUBSTANCE AUTOMATION ELECTRICAL LOAD LIST

DOC NR.:	SHEET.:: 2 / 1
569-DB7B-AIC-300-001	2/1
DOC NR.:	REV.:
PRD-AIC-LIS-018	3

	REVISION 0 NOTES:
1- ADDED PCS PANEL	
	REVISION 1 NOTES:
1- REVIEW ON POWER VALUES SVP PANELS ADDED	
2- SVP PANELS ADDED	
	REVISION 2 NOTES:
1- FIXED AUTOMATION RACK TO PCS/EMS/BMS NAME	
2- ADDED ELECTRICAL LOAD FOR AUTOMATION RACK SWITCHES	
3- ADDED ELECTRICAL LOAD FOR 7B-HMI-12 (IHM PCS - CIP)	
	REVISION 3 NOTES:
1- ADDED NOTES 4 AND 5	
2- ADDED TAG NUMBER FOR THE RU-B1012-A, RU-B3010-A AND RU-B3	3010-B SWITCHES.







DRUG SUBSTANCE **AUTOMATION ELECTRICAL LOAD LIST**

DOC NR.:	SHEET.:: 3 / 1
569-DB7B-AIC-300-001	37 1
DOC NR.:	REV.:
PRD-AIC-LIS-018	3

		PRD-AIC-LIS-018	3
NOTES;			
1) POWER SUPPLY FROM UNINT	ERRUPTER POWER SYSTEM (UPS)		
2) POWER SUPPLY FROM GENER	RATORS SYSTEM		
3) REFERENCE DRAWING:			
7B-I-0-7-01	VOIP&DATA RAISER DIAGRAM		
7B-I-0-7-02	FIRE ALARM RAISER DIAGRAM		
7B-I-0-7-05	CCTV RAISER DIAGRAM		
7B-I-0-7-06	ACS RAISER DIAGRAM		
7B-I-0-7-04	BMS NETWORK ARCHITECTURE		
7B-I-0-1-01	PCS NETWORK ARCHITECTURE		
7B-I-0-7-03	EMS NETWORK ARCHITECTURE		
4) WHERE IT SYSTEM IS INDICAT	ED IT MEANS DATA&VOICE SYSTEM.		
5) THE ELECTRICAL LOADS REPO	ORTED ARE FROM THE MAIN EQUIPMENT IN EACH PANEL.		

TESSLE engenhar	ine	Takeda Hemobrás	TITLE:	UG SUBSTANCE	DOC NR.: 569-DB7B-AIC-300-001		SHEET.: 4 / 11
■ <mark>⊕</mark> J∈ng∈nhar	R ips	Turceta by Tierrosa braile in de hem edenados e bota cusio da		N ELECTRICAL LOAD LIST	CLIENT NR.:	PRD-AIC-LIS-018	REV.: 3
BUILDING	TAG OF THE PANEL	SERVICE	CHARGE (VA)	SYSTEM	DRAWING N° OR EQUIPMENT	LOCALIZATION	NOTES
7B	CP-B3001	MAIN CLP BMS SYSTEM	1000	BMS	-	2° FLOOR ROOM B3001	1
7B	IHM-BMS-7B-1	IHM HVAC	800	BMS	-	2° FLOOR ROOM B3001	1
7B	-	POWER SUPPLY MAIN CLP BMS SYSTEM	400	BMS	-	-	1
7B	-	SWITCH MAIN CLP BMS SYSTEM	400	BMS	-	-	1
		TOTAL MAIN CLP BMS SYSTEM	2600				
7B	RM-AHU-7B-1	POWER SUPPLY REMOTE I/O HVAC	400	BMS	-	2° FLOOR SECOND FLOOR	1
7B	-	SWITCH REMOTE I/O HVAC	200	BMS	-	-	1
		TOTAL REMOTE I/O HVAC	600				
7B	RM-AHU-7B-2	POWER SUPPLY REMOTE I/O HVAC	500	BMS	-	2° FLOOR SECOND FLOOR	1
7B	-	SWITCH REMOTE I/O HVAC	200	BMS	-	-	1
		TOTAL REMOTE I/O HVAC	700				
7B	RM-AHU-7B-3	POWER SUPPLY REMOTE I/O HVAC	500	BMS	-	2° FLOOR SECOND FLOOR	1
7B	-	SWITCH REMOTE I/O HVAC	200	BMS	-	-	1
		TOTAL REMOTE I/O HVAC	700				
7B	RM-AHU-7B-4	POWER SUPPLY REMOTE I/O HVAC	500	BMS	-	2° FLOOR SECOND FLOOR	1
7B	-	SWITCH REMOTE I/O HVAC	200	BMS	-	-	1
		TOTAL REMOTE I/O HVAC	700				

TESSL engenha	ER ips	Takeda Hemobrás		RUG SUBSTANCE N ELECTRICAL LOAD LIST	DOC NR.: 569-DB7B-AIC-300-001 CLIENT NR.: PRD-AIC-LIS-018		SHEET.: 5 / 11 REV.: 3
BUILDING	TAG OF THE PANEL	SERVICE	CHARGE (VA)	SYSTEM	DRAWING N° OR EQUIPMENT	LOCALIZATION	NOTES
7B	RM-AHU-7B-5	POWER SUPPLY REMOTE I/O HVAC	500	BMS	-	2° FLOOR SECOND FLOOR	1
7B	-	SWITCH REMOTE I/O HVAC	200	BMS	-	-	1
		TOTAL REMOTE I/O HVAC	700				
7B	RM-AHU-7B-6	POWER SUPPLY REMOTE I/O HVAC	500	BMS	-	2° FLOOR SECOND FLOOR	1
7B	-	SWITCH REMOTE I/O HVAC	200	BMS	-	-	1
		TOTAL REMOTE I/O HVAC	700				
7B	RM-AHU-7B-7	POWER SUPPLY REMOTE I/O HVAC	500	BMS	-	2° FLOOR SECOND FLOOR	1
7B	-	SWITCH REMOTE I/O HVAC	200	BMS	-	-	1
		TOTAL REMOTE I/O HVAC	700				
7B	RM-AHU-7B-8	POWER SUPPLY REMOTE I/O HVAC	500	BMS	-	2° FLOOR SECOND FLOOR	1
7B	-	SWITCH REMOTE I/O HVAC	200	BMS	-	-	1
7B		TOTAL REMOTE I/O HVAC	700				
7B	RM-AHU-7B-9	POWER SUPPLY REMOTE I/O HVAC	500	BMS	_	2° FLOOR	1
7B	-	SWITCH REMOTE I/O HVAC	200	BMS	-	SECOND FLOOR -	1
7B		TOTAL REMOTE I/O HVAC	700				
7B	RM-DOAS-7B-1	POWER SUPPLY REMOTE I/O HVAC	500	BMS	-	2° FLOOR SECOND FLOOR	1
7B	-	SWITCH REMOTE I/O HVAC	200	BMS	-	-	1

TESSLER ips		Takeda Hemobrás Empresa insula sa da hama da insula canada sa da insula cana	DRUG SUBSTANCE		DOC NR.: 569-DB7B-AIC-300-001 CLIENT NR.: PRD-AIC-LIS-018		SHEET.: 6 / 11 REV.: 3	
					DRAWING N°	PRD-AIC-LIS-018	3	
BUILDING	TAG OF THE PANEL	SERVICE	CHARGE (VA)	SYSTEM	OR EQUIPMENT	LOCALIZATION	NOTES	
7B		TOTAL REMOTE I/O HVAC	700					
7B	RM-FCU-7B	POWER SUPPLY REMOTE I/O HVAC	500	BMS	-	GROUND FLOOR WALKABLE CEILING	1	
7B	-	SWITCH REMOTE I/O HVAC	200	BMS	-	-	1	
7B		TOTAL REMOTE I/O HVAC	700					
7B	RM-B3009-1	POWER SUPPLY REMOTE I/O BLACK UTILITIES	500	BMS	-	2° FLOOR ROOM B3009	1	
7B	-	SWITCH REMOTE I/O BLACK UTILITIES	200	BMS	-	-	1	
7B		TOTAL REMOTE I/O BLACK UTILITIES	700					
7B	RM-B1031-1	POWER SUPPLY REMOTE I/O BLACK UTILITIES	500	BMS	-	GROUND FLOOR ROOM B1031	1	
7B	-	SWITCH REMOTE I/O BLACK UTILITIES	200	BMS	-	-	1	
7B		TOTAL REMOTE I/O BLACK UTILITIES	700					
7B	RM-B3003-1	POWER SUPPLY REMOTE I/O ELECTRICAL SYSTEM	500	BMS	-	GROUND FLOOR ROOM B3003	1	
7B	-	SWITCH REMOTE I/O ELECTRICAL SYSTEM	200	BMS	-	-	1	
7B		TOTAL REMOTE I/O ELECTRICAL SYSTEM	700					
7B	RU-B1012-A	RACK IT / CCTV / ACS SYSTEM	1000	IT / CCTV / ACS SYSTEM	-	GROUND FLOOR ROOM B1012	1	
7В	SSD-B1012-A-01	SWITCH ACS/CCTV SYSTEM	600	ACS/CCTV SYSTEM	-	-	1	
7B	SDW-B1012-A-01	SWITCH IT SYSTEM	600	IT SYSTEM	-	-	1	
7B	SDW-B1012-A-02	SWITCH IT SYSTEM	600	IT SYSTEM	-	-	1	

TESSLO engenha	er ips	Takeda Henobrás Erpresa braziless de Nate adentados e Brate civilegas		UG SUBSTANCE N ELECTRICAL LOAD LIST	DOC NR.: 569-DB7B-AIC-300-001 CLIENT NR.: PRD-AIC-LIS-018		7 / 11 REV::
BUILDING	TAG OF THE PANEL	SERVICE	CHARGE (VA)	SYSTEM	DRAWING N° OR EQUIPMENT	LOCALIZATION	NOTES
7B	SDW-B1012-A-03	SWITCH IT SYSTEM	600	IT SYSTEM	-	-	1
7B		TOTAL RACK IT / CCTV / ACS SYSTEM	3400				
7B	RU-B3010-A	RACK IT / CCTV / ACS SYSTEM	1000	IT / CCTV / ACS SYSTEM	-	2° FLOOR ROOM B3002	1
7B	SSD-B3010-A-01	SWITCH ACS/CCTV SYSTEM	600	ACS/CCTV SYSTEM	-	-	1
7B	SDW-B3010-A-01	SWITCH IT SYSTEM	600	IT SYSTEM	-	-	1
7B	SDA-B3010-A-01	SWITCH DISTRIBUTION ADM	600	ADM	-	-	1
7B	SDA-B3010-A-02	SWITCH DISTRIBUTION ADM	600	ADM	-	-	1
7B		TOTAL RACK IT / CCTV / ACS SYSTEM	3400				
						2° El 00D	
7B	QF-B3002-1	LOW VOLTAGE SWITCH BOARD ACS SYSTEM	1000	ACS SYSTEM	-	2° FLOOR ROOM B3002	1
7B	QF-B1031-1	LOW VOLTAGE SWITCH BOARD ACS SYSTEM	1000	ACS SYSTEM	-	GROUND FLOOR ROOM A1031	1
7B		TOTAL LOW VOLTAGE SWITCH BOARD	2000				
7B	RU-B3010-B	RACK PCS/EMS/BMS SYSTEM	1000	PCS/EMS/BMS SYSTEM	-	MECHANICAL AREA	1
7B	BDS-INDUS-SW1	SWITCH 1 PCS/EMS/BMS SYSTEM	600	PCS/EMS/BMS SYSTEM	-	-	1
7B	BDS-INDUS-SW2	SWITCH 2 PCS/EMS/BMS SYSTEM	600	PCS/EMS/BMS SYSTEM	-	-	1
7B	BDS-INDUS-SW3	SWITCH 3 PCS/EMS/BMS SYSTEM	600	PCS/EMS/BMS SYSTEM	-	-	1
7B	B07-ESXI-1	SERVER 1 PCS/EMS/BMS SYSTEM	700	PCS/EMS/BMS SYSTEM	-	-	1
7B	B07-ESXI-2	SERVER 2 PCS/EMS/BMS SYSTEM	700	PCS/EMS/BMS SYSTEM	-	-	1
7B		TOTAL RACK PCS/EMS/BMS SYSTEM	4200				

TESSLO engenha	er ips	Takeda Hemobrás	TITLE:	UG SUBSTANCE	DOC NR.:	569-DB7B-AIC-300-001	SHEET.: 8 / 11 REV.:
Eng∈nna	ria IPS	Emprosa brasale sa de hema derinados e la cita cindo gla	AUTOMATIO	N ELECTRICAL LOAD LIST	CLIENT NR.:	PRD-AIC-LIS-018	REV.: 3
BUILDING	TAG OF THE PANEL	SERVICE	CHARGE (VA)	SYSTEM	DRAWING N° OR EQUIPMENT	LOCALIZATION	NOTES
7B	7B-BMS-HMI-01	CLIENT BMS	600	BMS SYSTEM	-	GROUND FLOOR ROOM B1034	1
7B	7B-BMS-HMI-02	CLIENT HYSTORIAN BMS	600	BMS SYSTEM	-	GROUND FLOOR ROOM B1034	1
7B	7B-BMS-HMI-03	CLIENT ACS SYSTEM	600	ACS SYSTEM	-	GROUND FLOOR ROOM B1034	1
7B	7B-HMI-02	CLIENT PCS SYSTEM	600	PCS SYSTEM	-	1° FLOOR ROOM B2054	1
7B	7B-HMI-05	CLIENT PCS SYSTEM	600	PCS SYSTEM	-	1° FLOOR ROOM B2038	1
7B	7B-HMI-08	CLIENT PCS SYSTEM	600	PCS SYSTEM	-	1° FLOOR ROOM B2047	1
7B	7B-HMI-09	CLIENT PCS SYSTEM	600	PCS SYSTEM	-	1° FLOOR ROOM B2004	1
7B	7B-HMI-10	CLIENT PCS SYSTEM	600	PCS SYSTEM	-	1° FLOOR ROOM B2008	1
7B		TOTAL WORKSTATIONS	4800				
7B	CP-B2600-4	PLC EMS SYSTEM	600	EMS	-	WALKABLE CEILING	1
7B	-	POWER SUPPLY PLC EMS SYSTEM	600	EMS	-	-	1
7B	-	SWITCH PLC EMS SYSTEM	200	EMS	-	-	1
7B		TOTAL PLC EMS SYSTEM	1400				
7B	RM-B1031-2	POWER SUPPLY REMOTE I/O EMS SYSTEM	400	EMS	-	GROUND FLOOR ROOM B1031	1
7B	-	TOWER LIGHTS	400	EMS	-	-	1
7B	-	SWITCH REMOTE I/O EMS SYSTEM	200	EMS	-	-	1
7B		TOTAL REMOTE I/O EMS SYSTEM	1000				
7B	CP-B1031-1	PLC PCS SYSTEM	1000	PCS	-	GROUND FLOOR ROOM B1031	1
7B	7B-HMI-1	IHM PCS	600	PCS	-	GROUND FLOOR ROOM B1031	1

TESSLER ips		Takeda Hemobrás		RUG SUBSTANCE N ELECTRICAL LOAD LIST	DOC NR.: CLIENT NR.:	9 / 11 REV.: 3	
BUILDING	TAG OF THE PANEL	SERVICE	CHARGE (VA)	SYSTEM	DRAWING N° OR EQUIPMENT	LOCALIZATION	NOTES
7B	-	POWER SUPPLY PLC PCS SYSTEM	500	PCS	-	-	1
7B	-	SWITCH PLC PCS SYSTEM	200	PCS	-	-	1
7B		TOTAL PLC PCS SYSTEM	2300				
7B	CP-B2600-1	PLC PCS SYSTEM	600	PCS	-	WALKABLE CEILING	1
7B	-	POWER SUPPLY PLC PCS SYSTEM	600	PCS	-	-	1
7B	-	SWITCH PLC PCS SYSTEM	200	PCS	-	-	1
7B		TOTAL PLC PCS SYSTEM	1400				
7B	CP-B2600-2	PLC PCS SYSTEM	600	PCS	-	WALKABLE CEILING	1
7B	-	POWER SUPPLY PLC PCS SYSTEM	600	PCS	-	-	1
7B	-	SWITCH PLC PCS SYSTEM	200	PCS	-	-	1
7B		TOTAL PLC PCS SYSTEM	1400				
7B	CP-B2600-3	PLC PCS SYSTEM	400	PCS	-	1° FLOOR ROOM B2600	1
7B	7B-HMI-3	IHM PCS	600	PCS	-	1° FLOOR ROOM B2048	1
7B	7B-HMI-4	IHM PCS	600	PCS	-	1° FLOOR ROOM B2048	1
7B	7B-HMI-6	IHM PCS	600	PCS	-	1° FLOOR ROOM B2039	1
7B	7B-HMI-7	IHM PCS	600	PCS	-	1° FLOOR ROOM B2039	1
7B	7B-HMI-11	IHM PCS	600	PCS	-	1° FLOOR ROOM B2037	1
7B	7B-HMI-12	IHM PCS - CIP	600	PCS	-	1° FLOOR ROOM B2001	1
7B	-	POWER SUPPLY PLC PCS SYSTEM	200	PCS	-	-	1

TESSLE engenha	er ips	Takeda Hemobrás		UG SUBSTANCE N ELECTRICAL LOAD LIST	DOC NR.: 569-DB7B-AIC-300-001 CLIENT NR.: PRD-AIC-LIS-018		SHEET.: 10 / 11 REV.: 3
BUILDING	TAG OF THE PANEL	SERVICE	CHARGE (VA)	SYSTEM	DRAWING N° OR EQUIPMENT	LOCALIZATION	NOTES
7B	-	SWITCH PLC PCS SYSTEM	200	PCS	-	-	1
7B		TOTAL PLC PCS SYSTEM	4400				
7B	IP-BRE-5401	40L BIOREACTOR, BRE-5401 VESSEL	600	PCS	-	1° FLOOR ROOM B2037	1
7B	IP-CIP-7702	CIP SYSTEM 2, CIP-7702 - MEDIA & FERM AREA	600	PCS	-	1° FLOOR ROOM B2037	1
7B	IP-CIP-7703	CIP SYSTEM CIP-7703 BUFFER AREA	600	PCS	-	GROUND FLOOR	1
7B	IP-CRM-3501	CATION EXCHANGE CHROM CRM-3501	600	PCS	-	1° FLOOR ROOM B2037	1
7B	IP-CRM-3601	ANION EXCHANGE CHROM CRM-3601	600	PCS	-	1° FLOOR ROOM B2037	1
7B	IP-SK-3701A	HOT WFI STORAGE TANK, TQ-6401	600	PCS	-	1° FLOOR ROOM B2037	1
7B	IP-SK-3702 / 03A	3000L BUFFER PREP TANK TQ-3702	600	PCS	-	1° FLOOR ROOM B2037	1
7B	IP-SK-5101	250L MEDIA PREP TANK - TQ-5101 & MED DIST	600	PCS	-	WALKABLE CEILING	1
7B	IP-SK-5102A	4500L MEDIA PREP TANK - TQ-5102	600	PCS	-	WALKABLE CEILING	1
7B	IP-SK-5201A	3800L MEDIA HOLD TANK - TQ-5201	600	PCS	-	WALKABLE CEILING	1
7B	IP-SK-5202A	3800L MEDIA HOLD TANK - TQ-5202	600	PCS	-	WALKABLE CEILING	1
7B	IP-SK-5501A	320L BIOREACTOR, BRE-5501 VESSEL	600	PCS	-	1° FLOOR ROOM B2037	1
7B	IP-SK-5601A	2500L BIOREACTOR, BRE-5601 VESSEL	600	PCS	-	1° FLOOR ROOM B2037	1
7B	IP-SK-5601B	2500L BIOREACTOR, BRE-5602 VESSEL	600	PCS	-	1° FLOOR ROOM B2037	1
7B	IP-SK-5602A	2500L BIOREACTOR, BRE-5602 VESSEL	600	PCS	-	1° FLOOR ROOM B2037	1
7B	IP-SK-5800	HARVEST FILTR SKIDS HFIL-5801 & HFIL-5802	600	PCS	-	1° FLOOR ROOM B2037	1
7B	IP-SK-6401	HOT WFI STORAGE TANK, TQ-6401	600	PCS	-	1° FLOOR ROOM B2037	1
7B	SVP-B1031-01	SOLENOID VALVE PANEL	450	PCS	-	GROUND FLOOR	1
7B	SVP-B1031-02	SOLENOID VALVE PANEL	450	PCS	-	GROUND FLOOR	1

TESSLE engenhar	<u>ip</u> s	Takeda Hemobrás Empresa basale as de hemodernados e biote coolegão	DRUG SUBSTANCE AUTOMATION ELECTRICAL LOAD LIST		DOC NR.: 569-DB7B-AIC-300-001 CLIENT NR.: PRD-AIC-LIS-018		SHEET.: 11 / 11 REV.: 3
BUILDING	TAG OF THE PANEL	SERVICE	CHARGE (VA)	SYSTEM	DRAWING N° OR EQUIPMENT	LOCALIZATION	NOTES
7B	SVP-B1031-03	SOLENOID VALVE PANEL	450	PCS	-	GROUND FLOOR	1
7B	SVP-B1031-04	SOLENOID VALVE PANEL	450	PCS	-	GROUND FLOOR	1
7B	SVP-B1031-05	SOLENOID VALVE PANEL	450	PCS	-	1° FLOOR ROOM B2037	1
7B	SVP-B1031-06	SOLENOID VALVE PANEL	450	PCS	-	1° FLOOR ROOM B2037	1
7B	SVP-B1031-07	SOLENOID VALVE PANEL	450	PCS	-	1° FLOOR ROOM B2037	1
						1° FLOOR ROOM B2037	1
							-
7B		TOTAL LOAD BUILDING 7B	47950				
		LOAD BUILDING 7B - RESERVE	2050				