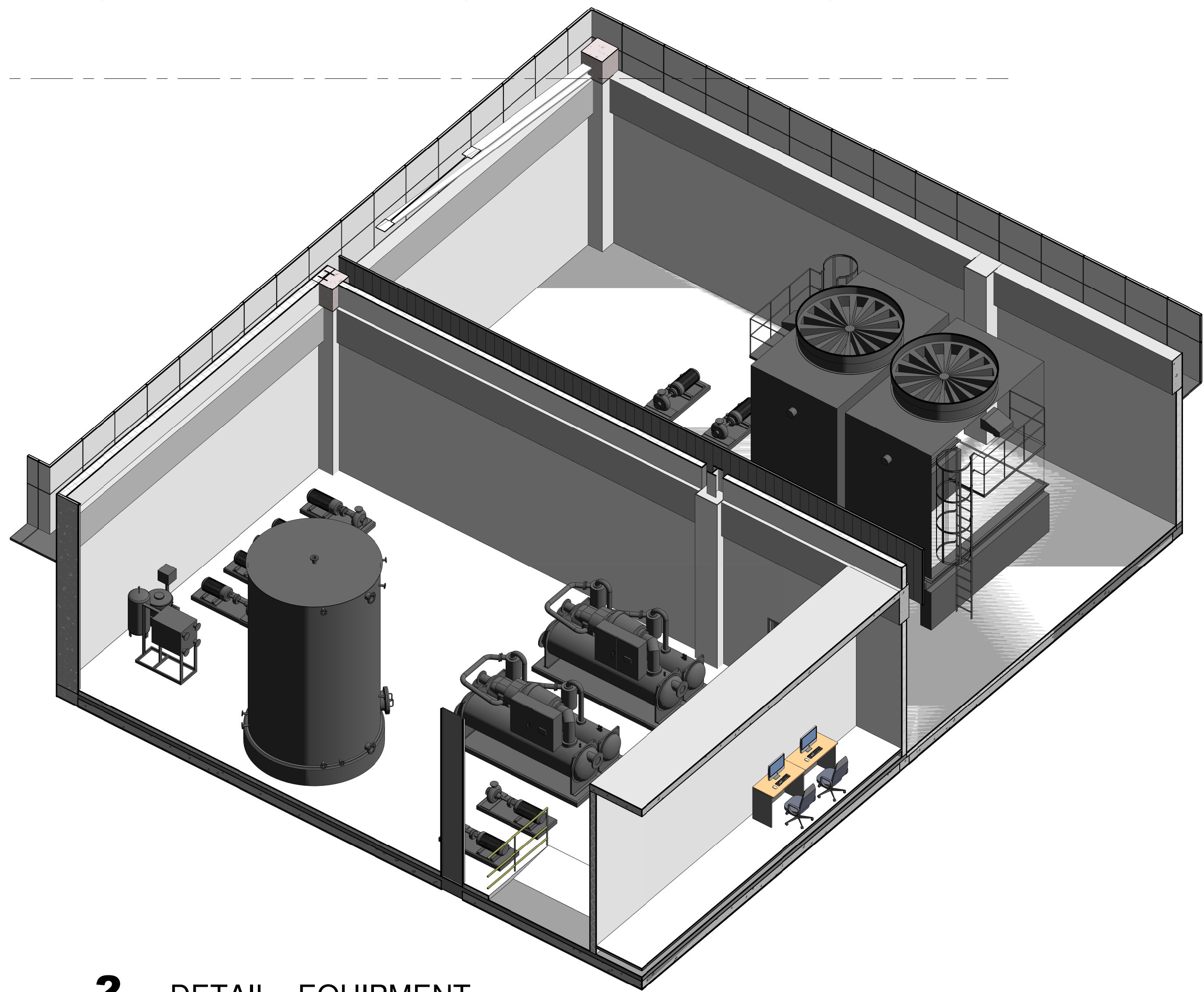




1 DRUG SUBSTANCE - MECHANICAL EQUIPMENT PLAN - SECOND FLOOR



2 DETAIL - EQUIPMENT

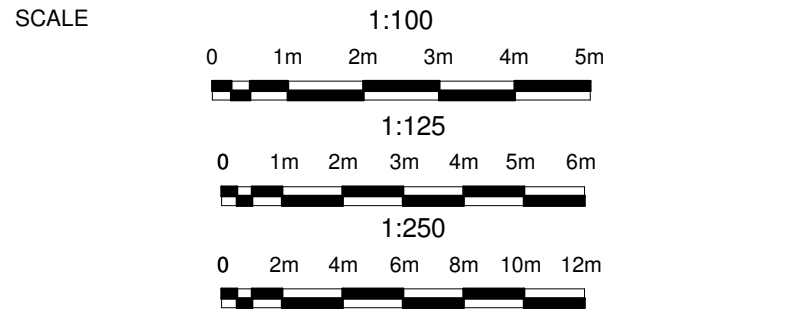
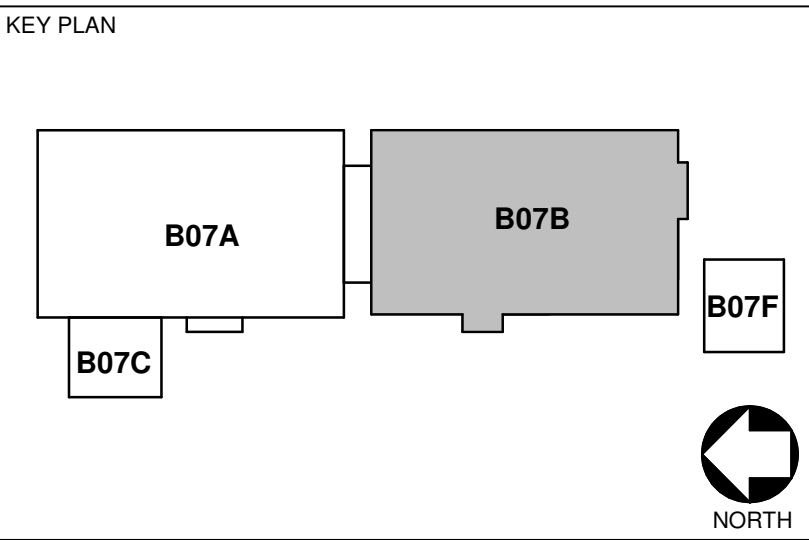
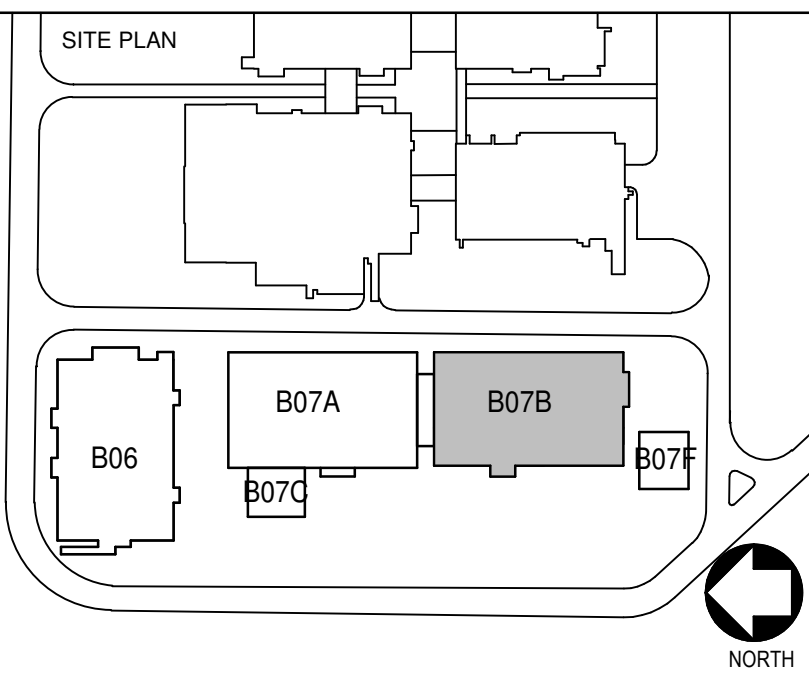
EQUIPMENT LIST						SUPPLIER	
ITEM	TAG	QTY	EQUIPMENT			FABR.	MODEL.
ITEM	TAG	QTY	EQUIPMENT			FABR.	MODEL.
1	PCH-7B-1	2	WATER COOLED CHILLER UNIT EFFECTIVE CAPACITY = 300 tons TOTAL CAPACITY = 300 tons CONDENSATION WATER PUMP Q= 260 m³/h; Dp= 31 mH2O (UNIT) TOTAL FLOW: 260 m³/h SERVICE: PROCESS			TRANE	CRTHD
2	PCH-7B-2	2	CHILLED WATER PUMP Q= 260 m³/h; Dp= 15 mH2O (UNIT) TOTAL FLOW: 260 m³/h SERVICE: PROCESS			KSB	MEGANORM
3	PCH-7B-3	2	CHILLED WATER PUMP Q= 260 m³/h; Dp= 15 mH2O (UNIT) TOTAL FLOW: 260 m³/h SERVICE: PROCESS			KSB	MEGANORM
4	PCH-7B-4	2	CHILLED WATER PUMP Q= 260 m³/h; Dp= 15 mH2O (UNIT) TOTAL FLOW: 260 m³/h SERVICE: PROCESS			KSB	MEGANORM
5	BT-7B-1	1	OPEN COOLING TOWER UNIT EFFECTIVE CAPACITY = 1,650 kW CAPACIDADE EFETIVA (UNIT) = 1,650 kW TOTAL CAPACITY = 1,650 kW SERVICE: PROCESS			EVAPCO	AT
6	CT-7B-1	2	CHILLED WATER PUMP Q= 260 m³/h; Dp= 15 mH2O (UNIT) TOTAL FLOW: 260 m³/h SERVICE: PROCESS			KSB	MEGANORM
7	HK-7B-1	1	HEAT EXCHANGER TROCADOR DE CALOR TOTAL CAPACITY = 781,892 kcal/h CONDENSATION WATER PUMP Q= 260 m³/h; Dp= 15 mH2O (UNIT) TOTAL FLOW: 260 m³/h SERVICE: PROCESS			ALFA LAVAL	ALFA LAVAL
8	HK-7B-2	1	HEAT EXCHANGER TROCADOR DE CALOR TOTAL CAPACITY = 781,892 kcal/h CONDENSATION WATER PUMP Q= 260 m³/h; Dp= 15 mH2O (UNIT) TOTAL FLOW: 260 m³/h SERVICE: PROCESS			ALFA LAVAL	ALFA LAVAL
9	PCH-7B-5	2	CHILLED WATER PUMP Q= 260 m³/h; Dp= 15 mH2O (UNIT) TOTAL FLOW: 260 m³/h SERVICE: PROCESS			KSB	MEGANORM
10	TK-7B-1	1	EXPANSION TANK TANQUE DE EXPANSÃO Volume: 0.14 m³ SERVICE: PROCESS			IMI	STATICO
11	CN-7B-2	1	SPILL CONTAINMENT PALLET PALETE DE CONTENÇÃO DE DEBARRAMENTO SERVICE: CHILLED WATER - LOOP 2 SERVICE: AGUA GELADA - LOOP 2			KURITA	KURITA
12	TK-7B-3	1	CHEMICAL DOSING TANK TANQUE DE DOSAGEM QUÍMICA SERVICE: CHILLED WATER - LOOP 2 SERVICE: AGUA GELADA - LOOP 2			KURITA	KURITA
13	BM-7B-2	1	CHEMICAL DOSING PUMP BOMBA DE DOSAGEM QUÍMICA SERVICE: CHILLED WATER - LOOP 2 SERVICE: AGUA GELADA - LOOP 2			KURITA	KURITA
14	CN-7B-4	1	SPILL CONTAINMENT PALLET PALETE DE CONTENÇÃO DE DEBARRAMENTO SERVICE: CONDENSATION WATER SERVICE: AGUA DE CONDENSACÃO			KURITA	KURITA
15	TK-7B-4	1	CHEMICAL DOSING TANK TANQUE DE DOSAGEM QUÍMICA SERVICE: CONDENSATION WATER SERVICE: AGUA DE CONDENSACÃO			KURITA	KURITA
16	BM-7B-4	1	CHEMICAL DOSING PUMP BOMBA DE DOSAGEM QUÍMICA SERVICE: CONDENSATION WATER SERVICE: AGUA DE CONDENSACÃO			KURITA	KURITA
17	CN-7B-1	1	SPILL CONTAINMENT PALLET PALETE DE CONTENÇÃO DE DEBARRAMENTO SERVICE: CHILLED WATER - PROCESS SERVICE: AGUA GELADA - PROCESS			KURITA	KURITA
18	TK-7B-2	1	CHEMICAL DOSING TANK TANQUE DE DOSAGEM QUÍMICA SERVICE: CHILLED WATER - PROCESS SERVICE: AGUA GELADA - PROCESS			KURITA	KURITA
19	BM-7B-1	1	CHEMICAL DOSING PUMP BOMBA DE DOSAGEM QUÍMICA SERVICE: CHILLED WATER - PROCESS SERVICE: AGUA GELADA - PROCESS			KURITA	KURITA
20	CN-7B-5	1	SPILL CONTAINMENT PALLET PALETE DE CONTENÇÃO DE DEBARRAMENTO SERVICE: HOT WATER - HVAC SERVICE: AGUA QUENTE - HVAC			KURITA	KURITA
21	TK-7B-6	1	CHEMICAL DOSING TANK TANQUE DE DOSAGEM QUÍMICA SERVICE: HOT WATER - HVAC SERVICE: AGUA QUENTE - HVAC			KURITA	KURITA
22	BM-7B-5	1	CHEMICAL DOSING PUMP BOMBA DE DOSAGEM QUÍMICA SERVICE: HOT WATER - HVAC SERVICE: AGUA QUENTE - HVAC			KURITA	KURITA

**ips**  
Integrated Project Services  
Engineering  
Design/Build  
Compliance  
Consulting  
721 ARBOR WAY, SUITE 100  
BLUE BELL  
PENNSYLVANIA 19422  
PHONE: 610.828.4090  
FAX: 610.828.3656  
www.ipsdb.com  
IPS Professional Engineers and Architects, PC.

REV	DATE	DESCRIPTION	BY	CHECK	APPR
A	09/03/2020	90% BD ISSUE	LFF	RCT	
B	16/07/2020	FINAL BD ISSUE	LFF	RCT	
C	11/08/2021	90% DO ISSUE	LFF	RCT	
D	19/04/2021	100% DO ISSUE	LFF	RCT	
E	30/07/2021	ISSUED FOR CONSTRUCTION	LFF	RCT	

**TESSLER**  
engenharia  
R. Dr. Cesário Mota Júnior, 424 - Vila Guarani, São Paulo - SP, 01221-020

- REVISION HISTORY**
- REV. A - 90% BD Issue
  - REV. B - FINAL BD Issue
  - REV. C - 90% DO Issue
  - REV. D - Included in the layout chemical dosing systems  
Inserido no layout o sistema de dosagem química
  - REV. E - Issued for Construction  
Emitido para Construção



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CLIENT

**Takeda**  
**Hemobrás**  
Empresa brasileira de hemoderivação e biotecnologia  
**BURITI EPCMV PROJECT**

DRAWING TITLE

**DRUG SUBSTANCE -  
MECHANICAL EQUIP. PLAN -  
SECOND FLOOR**

ENGINEER	ARCHITECT	DESIGNER	IPS PROJECT #
LFF	RCT	FJT	ITD19439.01
DRAWN BY	REVIEWED BY	SCALE	CADD FILE NAME
RMC	CCO	AS NOTED	

XREF FILE(S)	DRAWINGS NUMBER
	<b>7B-M-3-3-30</b>