



	
DOC NUMBER: 569-DB07-AIC-190-001		CLIENT NUMBER: PRD-AIC-LIS-046	
CLIENT: TAKEDA/BAXALTA			
PROJECT BURITI EPCMV PROJECT			





INTEGRATED PROJECT SERVICES **INSTRUMENTS & AUTOMATION** **APPROVED SUPPLIER LIST**

0	28SEP2021	ISSUE FOR CONSTRUCTION	MAV	MAF	RSP
B	09JUN2021	90% DD ISSUE	MAV	MAF	RSP
A	05MAY2021	90% DD ISSUE	MAV	MAF	RSP
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV.

 	 
DOC NR: 569-DB07-AIC-190-001	CLIENT NR: PRD-AIC-LIS-046
TITLE: INTEGRATED PROJECT SERVICES/ INSTRUMENTS & AUTOMATION APPROVED SUPPLIER LIST	SHEET 2 of 8
	REV.: 0

INDEX

1.	REVISION HISTORY.....	3
2.	PROJECT DESCRIPTION	3
3.	SCOPE.....	3
4.	INSTRUMENTS SUPPLIERS.....	4
5.	SYSTEM & EQUIPMENT SUPPLIER.....	8

 		 	
DOC NR:	569-DB07-AIC-190-001	CLIENT NR:	PRD-AIC-LIS-046
TITLE:			SHEET
INTEGRATED PROJECT SERVICES/ INSTRUMENTS & AUTOMATION APPROVED SUPPLIER LIST			3 of 8
			REV.: 0

1. REVISION HISTORY





Rev.	Reason for change
A	90% DD ISSUE
B	<ul style="list-style-type: none"> Updated item 2.2 Updated item 4.1 Updated item 4.2 Updated item 5 Note: This document replaces PRD-AIC-URS-020 document from BD.
0	<ul style="list-style-type: none"> Revised item 3.1 Revised to indicate only one instrument manufacturer Added Solenoid Valve Bank, Coriolis Flowmeter, Load Cells and Bench Scale.

2. PROJECT DESCRIPTION

- 2.1 Takeda has re-negotiated a licensing and tech transfer agreement (LTTA) with the Brazilian state- owned company Hemobrás (HB) to transfer the technology of Takeda's recombinant FVIII (rFVIII) product ADVATE from Takeda to Hemobrás. Hemobrás is planning to construct a vertically integrated facility for manufacturing of rFVIII at the Hemobrás owned site at Goiana, Pernambuco (PE), Brazil (Project Buriti).
- 2.2 The scope of Project Buriti is to design, build and qualify a new vertically integrated rFVIII Manufacturing facility, and includes implementation of all needed support buildings and Systems (Drug Product, Drug Substance, Boilers, Emergency Generators and Wastewater Treatment plant) on an existing brownfield site. It is expected that the new facility is completely self-contained and the existing Goiana site provides only basic utility supply (city water, gas, power) and logistics (access road, site security). The project also must account for operation's waste management (specifically process waste). The site's capacity layout for ADVATE manufacturing shall be based on three 2500L chemostat bioreactors, even though only equipment for a two bioreactor operation should be implemented at first.

3. SCOPE





- 3.1 This document is a guide to be used for selecting instruments & automation manufacturers as well as system integrator suppliers.

 		 	
DOC NR:	569-DB07-AIC-190-001	CLIENT NR:	PRD-AIC-LIS-046
TITLE:			SHEET
INTEGRATED PROJECT SERVICES/ INSTRUMENTS & AUTOMATION APPROVED SUPPLIER LIST			4 of 8
			REV.: 0





4. INSTRUMENTS SUPPLIERS

4.1 Non-sanitary (Black Utilities areas)

INSTRUMENT TYPE	NON-SANITARY	
	Manufacturer	Model
LEVEL SWITCH	Endress + Hauser (E+H)	Ref. FTL51
LEVEL TRANSMITTER	Endress + Hauser (E+H)	Ref.: Micropilot FMR532
PRESSURE GAUGE	WIKA	Ref. 232.50
TEMPERATURE GAUGE	WIKA	Ref.: R52+TW10
DIFFERENTIAL PRESSURE GAUGE	WIKA	Ref. 732.51
TEMPERATURE AND HUMIDITY TRANSMITTER - HVAC	CONTEMP	S501
MAGNETIC FLOWMETER	Endress + Hauser (E+H)	Ref.: Proline Promag P300
VORTEX FLOWMETER	Endress + Hauser (E+H)	Ref.: Proline Prowirl F200
PRESSURE TRANSMITTER	Endress + Hauser (E+H)	Ref. PMP75
TEMPERATURE TRANSMITTER	Endress + Hauser (E+H)	Ref.: TM411
ON-OFF VALVE	FISHER	Ref.: FISHER Vee-Ball V300 + Fisher 2052 Actuator and DVC6200
PRESSURE CONTROL VALVE	FISHER	Ref.: FISHER easy-e ED Control + Fisher 667 Actuator and DVC6200
TEMPERATURE CONTROL VALVE	FISHER	Ref.: easy-e ED Control + Fisher 667 Actuator and DVC6200
MOTORIZED CONTROL VALVE	AUMA	Ref. AUMA – Actuator SA 3-ph 380 VAC
SAFETY VALVE	SPIRAX SARCO	Ref.: SV80H
PRESSURE REDUCING VALVE	SPIRAX SARCO	Ref.: SRV 461





 		 	
DOC NR: 569-DB07-AIC-190-001		CLIENT NR: PRD-AIC-LIS-046	
TITLE: INTEGRATED PROJECT SERVICES/ INSTRUMENTS & AUTOMATION APPROVED SUPPLIER LIST			SHEET 5 of 8 <hr/> REV.: 0

RUPTURE DISK	BS&B	Ref.: Model D
DAMPER ACTUATOR - HVAC	Belimo	ZG-JSLA
TOWER LIGHTS	Schmersal ace	TLC-60 C- VD/AM/VM-BZ 24VDC
E-STOP	Schmersal ace	Ref.: BC321C
PUSH BUTTON	Schmersal ace	Ref.: Clean Series IP69K
DISCONNECT SWITCH	Schmersal ace	Ref.: LB Series
SELECTOR SWITCH	Schmersal ace	Ref.: EWS Series





 		 	
DOC NR:	569-DB07-AIC-190-001	CLIENT NR:	PRD-AIC-LIS-046
TITLE:			SHEET
INTEGRATED PROJECT SERVICES/ INSTRUMENTS & AUTOMATION APPROVED SUPPLIER LIST			6 of 8
			REV.: 0

4.2 Sanitary (Clean areas)

INSTRUMENT TYPE	SANITARY	
	Manufacturer	Model
LEVEL SWITCH	Endress + Hauser (E+H)	Ref. FTL51H
PRESSURE GAUGE	WIKA	Ref. PG43SA-S
TEMPERATURE GAUGE	WIKA	Ref. R52+TW60
DIFFERENTIAL PRESSURE GAUGE	WIKA	Ref.732.51 (WIKA)
MAGNETIC FLOWMETER	Endress + Hauser (E+H)	Ref. Proline Promag H300
VORTEX FLOWMETER	Endress + Hauser (E+H)	Ref. Proline Prowirl F200
CORIOLIS FLOWMETER	Endress + Hauser (E+H)	Ref. Proline Promass F 300
PRESSURE TRANSMITTER	Endress + Hauser (E+H)	Ref. PMP75
TEMPERATURE TRANSMITTER	Endress + Hauser (E+H)	Ref. TM411
SAFETY VALVE	PENTAIR SÜDMO (TETRALON)	Ref.: SVP
DIAPHRAGM VALVE	GEMÜ	Ref.: 687 + 4241
DEAD-LEG VALVE	GEMÜ	Ref. 600 04-03.KL / 650 03-01
PRESSURE REDUCING VALVE	STERIFLOW	Ref.: Mark 96 Series
RUPTURE DISK AND BDI, INTEGRAL TO GCR-SMS MODEL	BS&B	Ref.: GCR-SMS (BS&B)
ANALYSER O2	NOVATECH	Ref. Dual Probe 1732
CONDUCTIVITY ANALYZER (Sensor + Transmitter)	Endress + Hauser (E+H)	Ref.CLS16D / CM442
DISSOLVED OZONE ANALYSER O3	DRAGER	Ref.: PointGard 2100
TOC ANALYZER (Sensor + Transmitter)	METTLER TOLEDO	Ref.M800 / 6000TOCi

 		 	
DOC NR:	569-DB07-AIC-190-001	CLIENT NR:	PRD-AIC-LIS-046
TITLE: INTEGRATED PROJECT SERVICES/ INSTRUMENTS & AUTOMATION APPROVED SUPPLIER LIST			SHEET 7 of 8
			REV.: 0

DO ANALYSER (CO2)	METTLER TOLEDO	Ref.: InPro5500i + M800
pH ANALYSER	METTLER TOLEDO	Ref. M800 / pHure LE Anlg
EMS MONITOR (PDIT)	testo	testo 6383
EMS MONITOR (PDIT/TIT/MIT)	testo	testo 6383
EMS DATA PROBE (Connected to EMS MONITOR) (HUMIDITY AND TEMPERATURE)	testo	testo 6610
SOLENOID VALV BANK (Profinet port)	Festo	CPX Terminal + Valve terminal MPA-S
WEIGH MODULE	METTLER TOLEDO	Ref.: SWB505 MultiMount + IND570
BECH SCALE (Formulation)	METTLER TOLEDO	Ref.: ICS689g (ethernet interface)

 		 	
DOC NR:	569-DB07-AIC-190-001	CLIENT NR:	PRD-AIC-LIS-046
TITLE:			SHEET
INTEGRATED PROJECT SERVICES/ INSTRUMENTS & AUTOMATION APPROVED SUPPLIER LIST			8 of 8
			REV.: 0

5. SYSTEM & EQUIPMENT SUPPLIER

SYSTEM&EQUIPMENT	SUPPLIER
CCTV SYSTEM	Hikvision - AcuSense Series NVR
	Hikvision - Série Pro (EasyIP) Network Camera
ACCESS CONTROL SYSTEM	PCSC - IQ Series
	PCSC - LiNC-NXG software
FIRE ALARM SYSTEM	NOTIFIER - NFS2 Series
ASPIRATION SMOKE DETECTOR	NOTIFIER
PLC HARDWARE	SIEMENS - 1500 Series
	SIEMENS - ET200SP Series
SERVER HARDWARE	DELL - PowerEdge R540
THIN-CLIENT IN CONTROL ROOM	DELL – Wyse (Screen)
PCS SOFTWARE SCADA	AVEVA-SYSTEM PLATFORM
BMS SOFTWARE SCADA	AVEVA-SYSTEM PLATFORM
EMS SOFTWARE SCADA	AVEVA-SYSTEM PLATFORM
HMI CLEAN ROOM	SIEMENS - IPC477 Series
DATA SWITCH	AREVA - JL256A Series
ACCESS POINT	AREVA - 510 Series
AUTOMATION SERVICES PROVIDER	INFOENG
	SPI
	IASTECH
	Liquid Consulting
	PPI-Multitask
	Grafcet