







	
DOC NUMBER: 569-DB07-MEC-811-004		CLIENT NUMBER: PRD-MEC-MTR-004	
CLIENT: TAKEDA/BAXALTA			
PROJECT BURITI EPCMV			

MATERIAL REQUISITION – WATER PUMPS

0	30JUL2021	ISSUED FOR CONSTRUCTION	ASO	LFF	RSP
B	17JUN2021	90% DD ISSUE	ASO	LFF	RSP
A	12FEB2021	30% DD ISSUE	ASO	LFF	MAJ
REV	DATE	DESCRIPTION	EXEC	CHECK	APPROV.





 		 	
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REVISION HISTORY





Rev	Reason For Change
A	Issued for Review
B	Item 2.2 - Excluded from the scope frequency inverters
	Item 3 - Included review of reference documents and updated table
	Item 5.3 - Removed of inspection items related to the welding process
0	ISSUED FOR CONSTRUCTION

 		 	
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1. OBJECTIVE

- 1.1** This Technical Requisition covers the minimum requirements for the supply of twenty two (22) centrifugal pumps, specified below and in all the attached documents for Buriti Project, in the city of Goiana, Pernambuco, Brazil.
- 1.2** Vendor's proposal shall include, but not be limited to equipment, materials and work specified in list of scope of supply (Item 2) below.
- 1.3** Vendor's proposal for equipment, service and/or materials shall be in strict accordance with conditions stated in this requisition and any attached document. Deviations and alternatives will be valid only if clearly described in a "deviation list" by vendor and approved by owner's engineering.

Supply object			
Applicable to:		<input checked="" type="checkbox"/> Proposal	<input type="checkbox"/> Purchase order
Item	Tag	Qty	Description
1	P-CH-7A-1	1	Chilled Water Pump - Primary
2	P-CH-7A-2	1	Chilled Water Pump - Primary
3	P-CH-7A-3	1	Chilled Water Pump - Primary
4	P-CH-7A-4	1	Chilled Water Pump - Secondary
5	P-CH-7A-5	1	Chilled Water Pump - Secondary
6	P-C-7A-1	1	Condensation Water Pump
7	P-C-7A-2	1	Condensation Water Pump
8	P-C-7A-3	1	Condensation Water Pump
9	P-PCH-7A-1	1	Chilled Water Pump - Process
10	P-PCH-7A-2	1	Chilled Water Pump - Process
11	P-PCH-7A-3	1	Chilled Water Pump - Process
12	P-PCH-7A-4	1	Chilled Water Pump - Process
13	P-CH-7B-6	1	Chilled Water Pump - Secondary
14	P-CH-7B-7	1	Chilled Water Pump - Secondary
15	P-C-7B-1	1	Condensation Water Pump
16	P-C-7B-1	1	Condensation Water Pump
17	P-PCH-7B-1	1	Chilled Water Pump - Process
18	P-PCH-7B-2	1	Chilled Water Pump - Process
19	P-PCH-7B-3	1	Chilled Water Pump - Process
20	P-PCH-7B-4	1	Chilled Water Pump - Process
21	P-PCH-7B-5	1	Chilled Water Pump - Process
22	P-PCH-7B-6	1	Chilled Water Pump - Process

 		 	
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2. SCOPE OF SUPPLY

2.1 The scope includes at least the following items:

2.1.1 Design

- ☒ Material selection
- ☒ Mechanical design
- ☒ Fabrication design
- ☒ Submittal of ALL documentation for approval





2.1.2 General Items and accessories

- ☒ Horizontal Centrifugal Pumps;
- ☒ All mechanical and electrical components necessary for appropriated operation of equipment supplied by vendor;
- ☒ All electrical motors necessary for appropriated operation of equipment supplied by vendor;
- ☒ All instruments necessary for appropriated operation of equipment supplied by vendor;
- ☒ Takeda/Baxalta will provide vendor with only one 3 Phase+N+PE, 380V, 60 Hz supply feeder per each centrifugal pump.
- ☒ Sealing, cooling and lubrication systems
- ☒ Nameplate and support in stainless steel AISI 304;
- ☒ First fill of lubricants;
- ☒ Inspection and tests according to item 7.9 of the document PRD-MEC-TSP-005 Technical Specification – Water Pumps;
- ☒ Technical documents and drawings according to item 8.5 of the document PRD-MEC-TSP-005 Technical Specification – Water Pumps;
- ☒ Quality Guarantee System;
- ☒ Earthing lugs;
- ☒ Coupling and coupling guard;
- ☒ Primer and final painting;
- ☒ Anticorrosive protection for storage;
- ☒ Packing and preparation for transport;
- ☒ Transport (*);
- ☒ Field erection supervision (*);
- ☒ Training (*);
- ☒ Data Book with manuals in Portuguese and English.
- ☒ Lifting Lugs;
- ☒ Noise Insulation.

** These items shall be presented with separated price in Commercial Proposal.*

2.2 Exclusions from the scope of supply

- ☒ Frequency inverters;

 		 	
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- ☒ Civil works;
- ☒ Foundation;
- ☒ Field erection;
- ☒ Anchor bolts;

2.3 Spare Parts

- ☒ Spare parts for erection, commissioning and start-up (*);
- ☒ Spare parts for 1 year (*);

* These items shall be presented with separated price in Commercial Proposal.





2.4 Battery Limits

The limits of the scope of supply are:

Terminal boxes of the motors and instruments;

3. REFERENCE DOCUMENTS AND ATTACHMENTS

Item	Number	REV	Title
01	7A-M-3-3-30	0	DRUG PRODUCT - MECHANICAL EQUIPMENT PLAN - SECOND FLOOR
02	7B-M-3-3-30	0	DRUG SUBSTANCE - MECHANICAL EQUIPMENT PLAN - SECOND FLOOR
03	PRD-PIP-TSP-501	0	PIPE CLASS AND SPECIFICATIONS
04	PRD-PIP-TSP-504	0	TECHNICAL SPECIFICATION - GENERAL INSULATION CLASS
05	PRD-ELE-CRT-513	0	ELECTRICAL – DESIGN CRITERIA
06	7A-I-0-7-04	0	DRUG PRODUCT - BMS NETWORK ARCHITECTURE
07	7B-I-0-7-04	0	DRUG SUBSTANCE - BMS NETWORK ARCHITECTURE
08	PRD-MEC-CRT-001	0	DESIGN CRITERIA - MECHANICAL
09	PRD-MEC-TSP-005	0	TECHNICAL SPECIFICATION – WATER PUMPS
10	PRD-MEC-DSH-005	0	DATA SHEET - CHILLED WATER PUMP - PRIMARY - P-CH-7A-1/P-CH-7A-2/P-CH-7A-3
11	PRD-MEC-DSH-006	0	DATA SHEET – CHILLED WATER PUMP – SECONDARY P-CH-7A-4 / P-CH-7A-5
12	PRD-MEC-DSH-007	0	DATA SHEET – CHILLED WATER PUMP – PROCESS P-PCH-7A-1 / P-PCH-7A-2
13	PRD-MEC-DSH-008	0	DATA SHEET – CHILLED WATER PUMP – PROCESS P-PCH-7A-3 / P-PCH-7A-4
14	PRD-MEC-DSH-009	0	DATA SHEET – CONDENSATION WATER PUMP P-C-7A-1 / P-C-7A-2 / P-C-7A-3
15	PRD-MEC-DSH-016	0	DATA SHEET – CHILLED WATER PUMP – SECONDARY P-CH-7B-6 / P-CH-7B-7
16	PRD-MEC-DSH-017	0	DATA SHEET - CHILLED WATER PUMP – PROCESS P-PCH-7B-1 / P-PCH-7B-2
17	PRD-MEC-DSH-018	0	DATA SHEET - CHILLED WATER PUMP – PROCESS P-PCH-7B-3 / P-PCH-7A-4

 		 	
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Item	Number	REV	Title
18	PRD-MEC-DSH-019	0	DATA SHEET - CHILLED WATER PUMP – PROCESS P-PCH-7B-5 / P-PCH-7A-6
19	PRD-MEC-DSH-020	0	DATA SHEET - CONDENSATION WATER PUMP P-C-7B-1 / P-C-7B-2
20	PRD-PRO-MDE-001	0	CHILLED WATER DISTRIBUTION SYSTEM FOR HVAC - DESCRIPTION REPORT
21	PRD-PRO-MDE-002	0	CHILLED GLYCOL SYSTEM (PROCESS) - DESCRIPTION REPORT
22	PRD-PRO-MDE-003	0	CHILLED GLYCOL SYSTEM (PROCESS) - DESCRIPTION REPORT
23	PRD-PRO-MDE-008	0	COOLING WATER SYSTEM - DESCRIPTION REPORT
24	PRD-PRO-MDE-009	0	COOLING WATER SYSTEM - DESCRIPTION REPORT

4. DEVIATIONS

- 4.1** Any deviation to this Requisition and its attachments shall be indicated in a Deviation List. Otherwise, no deviations will be accepted for this supply.

5. INSPECTION AND TESTS

- 5.1** The fabrication of the equipment at the manufacture's shop or at sub-suppliers shops will be followed by inspection by the purchaser or his representative inspector.
- 5.2** Client reserves the right to witness all tests and inspect all components during raw material receipt, application and storage; such as audit and expedite, at any time, Quality and Manufacturing Control Process at Supplier's and sub-supplier's shop.
- 5.3** Inspection will include, as minimum:
- 5.3.1** Verification material certificates
 - 5.3.2** Verification of destructive and non-destructive examinations
 - 5.3.3** Tolerances inspection during assembly
 - 5.3.4** Visual inspection
 - 5.3.5** Dimensional Inspection
 - 5.3.6** Run & operation test
 - 5.3.7** Noisy and vibration test