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Title	Design, Fabrication and Supply of Torus Cryo Pump Housing (TCPH) with Bellows and Other Loose items
Sub-titel	MANDATORY APPENDIX : II-TCPH-APB3_02_ENGINEERING DRAWINGS

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	Mandatory Appendix Appendix-II-TCPH-APB3_02 Engineering Drawings	INDUS Ref. No. R34VABP
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INDEX

1. INTRODUCTION	3
2. TCPH ASSEMBLY AND PART ENGINEERING DRAWINGS	3
3. CAD DOCUMENTATION REQUIREMENTS	4

	Mandatory Appendix Appendix-II-TCPH-APB3_02 Engineering Drawings	INDUS Ref. No. R34VABP
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1. INTRODUCTION

Engineering Drawings are listed in Section 2 of this document wherein all dimensions are provided at room temperature (20° C). In addition, I-I shall provide CATIA model representing geometry of each TCPH. Any changes issued later during tendering process in the 3D CAD models (Enovia Ref: TWKYGQ) and 2D drawings shall be agreed on by Bidder and I-I/O.

2. TCPH ASSEMBLY AND PART ENGINEERING DRAWINGS

No.	TITLE	Drawing Number	Drawing Revision
1.	CR_LC_TCP_HOUSING_TYPE_A_DET	34445	E
2.	CR_LC_TCP_HOUSING_TYPE_B_DET	34460	E
3.	CR_LC_TCP_HOUSING_TYPE_C_DET	34461	E
4.	CR_LC_TCP_HOUSING_TYPE_D_DET	46022	A
5.	TCPH_ASSY	34280	C
6.	TCPH_BELLOWS_DET	34352	C
7.	TCPH_BOTTOM_SOCKET_DET	34349	B
8.	TCPH_CRYOPUMP_FLANGES_DET	34345	D
9.	TCPH_INNER_CYLINDER_DET	34351	-
10.	*TCPH_LIFTING_PADS_DET	34353	-
11.	TCPH_OBLONG_PIPE_DET	34348	A
12.	TCPH_REMOTE_HANDLING_SOCKETS_DET	34343	B
13.	TCPH_SHELLS_DET	34338	C
14.	TCPH_TEMPORARY_FLANGE_DET	34384	D
15.	TCPH_VERTICAL_PLATES_DET	34340	D
16.	TCPH_WALL_FLANGES_DET	34344	D
17.	TCPH_FLANGE_PROTECTION_PLATE	43730	-

Note: * Lifting Pads are shown as conceptual.

	Mandatory Appendix Appendix-II-TCPH-APB3_02 Engineering Drawings	INDUS Ref. No. R34VABP
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3. CAD DOCUMENTATION REQUIREMENTS

- 3.1. The Bidder shall ensure that all manufacturing drawings prepared by bidder or its suppliers shall comply with the ITER CAD Manual. [PA Ref No. 25].
- 3.2. Bidder shall submit manufacturing model using CATIA V5 R23 (or latest release) as mentioned in ITER CAD Manual. [PA Ref No 25].
- 3.3. Manufacturing model submitted by bidder needs to be synchronized in Enovia. After a contract award, I-I shall provide training of ~5 Days followed by an examination by ITER-India to a Bidder's representative for management of CAD data in Enovia (IO System). Bidder's representative proposed for training shall have knowledge and work experience in CATIA software.
- 3.4. Subsequent changes in manufacturing model due to deviation requests or Non conformities shall be updated by the Bidder in Enovia system at ITER-India premises.