



**ATLAS AGREEMENT  
618/2020**

**ATLAS AGREEMENT No. 618/2020**

99'953 CHF from T577020	To T541500	2 June 2020
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**Payment for the new production of opto-boards for the Pixel detector**

**BETWEEN**

**The ATLAS Collaboration**

Represented by the ATLAS Resources Coordinator on the one hand,

**AND**

Ohio State University, hereafter referred to as "OSU",

Represented by its ATLAS Pixel Team leader,

On the other hand

hereafter collectively referred to as "the Parties",

**IT IS AGREED AS FOLLOWS:**

**CONSIDERING THAT:**

- The United States has signed the ATLAS construction MoU (RRB-D 98-44 rev.) and M&O MoU (CERN-RRB-2002-035);
- The US contributes to the Inner Detector sub-systems;
- Ohio State University contributes to the Pixel sub-detector;

- The M&O for the ATLAS experiment includes efforts to upkeep the detector in a good working order. This requires, among other, the production of a new generation of the on-detector optical transmitters (opto-boards);

**IT IS AGREED AS FOLLOWS:**

**ARTICLE 1      SCOPE OF THE AGREEMENT**

- 1.1                    The purpose of the Agreement is to record the payments made by ATLAS Pixel Project to OSU for the production of 400 optoboards.

**ARTICLE 2      OBLIGATIONS OF THE PARTIES**

- 2.1                    OSU will produce and deliver to CERN 400 optoboards, including 128 spares, "Work Package". The optoboards will be assembled and tested at OSU.
- 2.2                    The role of U.S. ATLAS is to facilitate the transfer of funds from ATLAS Pixel M&O to OSU. U.S. ATLAS are not responsible for the production of the optoboards at OSU. It remains the responsibility of ATLAS Pixel to oversee and attend to any technical issues and/or cost overruns associated with the production of these optoboards.

**ARTICLE 3      FUNDING**

- 3.1                    The value of the Work Package is estimated to be 600'000 CHF. The exact value depends on the labor cost as well as costs incurred in the covid-19 period.
- For producing the Work Package, OSU will be paid by ATLAS Pixel in three steps as described in Annex 1.
- While the first payment was realized through a purchase order of 150 boards, all further payments to OSU will proceed through payments to the US ATLAS CERN team account and include overheads of 2.6%.
- The value of the final payment will be agreed by the parties once the Work Package is delivered and accepted at CERN.
- ATLAS will make the final payment no later than 30 days after the Work Package is accepted by ATLAS Pixel.

**ARTICLE 4**      **DURATION OF THE AGREEMENT**

- 4.1                      This Agreement is valid until December 31st, 2020. It can be extended by mutual consent using appropriate addenda.

**ARTICLE 5**      **CO-ORDINATION AND ADDRESSES FOR CORRESPONDENCE**

- 5.1                      All documents concerning this agreement shall bear the reference:

**“ATLAS Agreement No. 618/2020”**

- 5.2                      The performance of this agreement shall be co-ordinated by the following persons:

for the ATLAS Collaboration:

ATLAS Pixel Project Leader,  
CERN – Department PH,  
CH-1211 Geneva 23, SWITZERLAND (attn. M. Kocian)

for the Ohio State University:

Ohio State University, 191 West Woodruff Ave,  
Columbus  
OH 43210-1117 USA (attn. K. K. Gan).

**ARTICLE 6**      **ARBITRATION**

- 6.1                      Any differences arising during the execution of this agreement will be submitted to the ATLAS Spokesperson which will propose solutions in the best interest of the Collaboration.

Signed in Geneva, 2 June 2020



(M. Kocian)  
Pixel Project Leader  
ATLAS Collaboration

(D. Francis)  
Resources Coordinator  
ATLAS Collaboration

(K.K. Gan)  
OSU-ATLAS Pixel Team Leader  
Ohio State University, US



(S. Rajagopalan)  
US ATLAS Team Leader

**ANNEX 1**

Schedule of payments to OSU:

January 2020, Order of 150 pieces:		243'438 CHF
May, effort including overhead:.	99'953 CHF	
May, Overhead:.....	-2'533 CHF	
Date TBD, 250 pcs, incl overhead:		265'880 CHF
Date to be decided, overhead:.....	-6'738 CHF	
<b>Sum:</b> .....	<b>600'000CHF</b>	