

Transfer of Work Scope Annex

This is an Annex to the Cost Allocation Agreement (ESS-3215759) entered into between European Spallation Source ERIC (ESS) and Paul Scherrer Institut (the Partner) on [date], the terms and conditions of which are hereby incorporated by reference.

CHANGE DATA			
CR ID	13.15	Date created	2021-MM-DD
Title of the CR:	ESS Common Choppers Project contribution to Estia		
Name of Change Originator (partner):	Alessandra Luchini	ESS WP Co-ordinator:	Erik Nilsson
Reviewed by ICC:	<input checked="" type="checkbox"/> YES NAME: Thomas Arnold	Agreed by ESS WP Manager:	<input checked="" type="checkbox"/> YES NAME: Nikolaos Tsapatsaris

CHANGE ANALYSIS (filled out by the Partner)																			
Technical Annex (TA)	NIK6.9 #2 – Instrument Estia Construction Project																		
Reason for Change	The Estia chopper and chopper controls contain many components that are standardized by ESS between different instruments. To assure compatibility as well as profit from large scale procurement the ESS chopper group will provide several parts of the chopper and perform commissioning tasks.																		
Change Description	<p>The Chopper Group will develop the chopper infrastructure and electronics, procure the magnetic spindle, build the electronics and commission the whole system. The hardware delivery scope is 1 chopper SKF spindle, cables, 1 complete chopper cabinet: including 1x CHIC controller, 1x SKF controller, power distribution, required cables connections and the complete cold commissioning of the ESTIA 1x chopper system as per ESS-1401578.</p> <p>Comment on MSa: Due the highly standardised cabinet and CHIC system and the fact that we have an identical SKF based chopper in our lab, sending the entire cabinet may not be necessary. Full testing and a FAT will take place in August in the presence of the ESTIA team.</p> <p>Please note shipping in July is difficult due to vacation.</p> <p>In discussions between the ESS chopper group and WP leader A. Glavic of the Estia team, the following Scope of Work have been discussed and agreed:</p> <table border="1"> <tbody> <tr> <td>Scope</td> <td colspan="2">Chopper infrastructure and electronics development, components and commissioning described in ESS-1401578.</td> </tr> <tr> <td>Budget (EUR)</td> <td colspan="2">85 000</td> </tr> <tr> <td>TA References / Sections in TA</td> <td colspan="2">Part of milestone SP_02 (CBV 1.3 M€)</td> </tr> <tr> <td>Key Milestones</td> <td>Title</td> <td>Date</td> </tr> <tr> <td>MS a</td> <td>Delivery of chopper spindle and controller to PSI</td> <td>July/August 2021</td> </tr> <tr> <td>MS b</td> <td>Remote FAT of the cabinet with ESTIA responsables or Delivery of Complete 1x Cabinet to PSI after discussion with ESTIA team.</td> <td>August 2021</td> </tr> </tbody> </table>	Scope	Chopper infrastructure and electronics development, components and commissioning described in ESS-1401578.		Budget (EUR)	85 000		TA References / Sections in TA	Part of milestone SP_02 (CBV 1.3 M€)		Key Milestones	Title	Date	MS a	Delivery of chopper spindle and controller to PSI	July/August 2021	MS b	Remote FAT of the cabinet with ESTIA responsables or Delivery of Complete 1x Cabinet to PSI after discussion with ESTIA team.	August 2021
Scope	Chopper infrastructure and electronics development, components and commissioning described in ESS-1401578.																		
Budget (EUR)	85 000																		
TA References / Sections in TA	Part of milestone SP_02 (CBV 1.3 M€)																		
Key Milestones	Title	Date																	
MS a	Delivery of chopper spindle and controller to PSI	July/August 2021																	
MS b	Remote FAT of the cabinet with ESTIA responsables or Delivery of Complete 1x Cabinet to PSI after discussion with ESTIA team.	August 2021																	

CHANGE ANALYSIS (filled out by the Partner)			
	MS c	Chopper commissioning at ESS site	March 2022
Change impact	Schedule: None expected Risk: Reduce risk of interface issues as done centrally by ESS		
Remuneration	The Partner will pay to ESS the following amounts as compensation for ESS' performance of the transferred Scope of Work: Payment 1: EUR 60 000; payable on completion of MS a Payment 2: EUR 20 000; payable on completion of MS b Payment 3: EUR 10 000; payable on completion of MS c <u>Total:</u> EUR 85 000 [same as the budget]		
References	ESS-0318497- Estia SSDD for beam transport and conditioning system – describes the chopper design of the instrument ESS-1401578 - ESTIA Standard Chopper Project Proposal		

CHANGE IMPACT (filled out by ESS)	
Schedule impact	None
Increased risks for projects	None
Affected ESS Services	<input checked="" type="checkbox"/> Procurement <input type="checkbox"/> Finance <input type="checkbox"/> Installation <input checked="" type="checkbox"/> NSS Justification:
Other Comments	
References	

CHANGE DECISION – IK Partner responsible (with scope & budget responsibility)			
Decision	Approved	Date	
Decision made by	Marc Janoschek		
Signature			
Comment/ Justification			

CHANGE DECISION – NSS Project Leader			
Decision	Approved	Date	
Decision made by	Jon Taylor		
Signature			

Document Type NSS S/S Change Request
Document ESS-0213898
Number

Date (1)
State

Mar 19, 2018
Preliminary

CHANGE DECISION – NSS Project Leader	
Comment/ Justification	