

# Extended Financial board

14 October 2022

## Communications

1) IB request: we need (at least) 1 person for each region

- 1 IT
- 1 Canada
- 1 USA
- 1 UK
- 1 Other countries

for drafting the MoU.

**Please urgently send the names to Giuliana, within next Tuesday Oct 18th**

Items to be completed:

2) We need to propose a rule for sharing the Common Funds

3) Common funds items? The cost check and review needed for the baseline will help the identification of the items

# To be discussed today

- 1) Gd loaded acrylic and pure acrylic for the mockup and DS20k (Yi, Cristian Graham....)
- 2) Mockup needs (Bianca + Sandro,+ Alessio)
- 3) Facilities in CR2 (Bianca + Sandro + Alessio )
- 4) Evaporation & coating facilities (Mark, Aksel, ...)
- 5) Installation of the Ds20k detector inside the cryostat (Sandro, Alessio)
- 6) Report on closure of contracts for support of NOA personnel  
Formal decision on changes to costbook (UCLA loan...) Cristian + others

## Baseling process:

Handled by Marzio

Item list (following the PBS)

Cost estimation: our work

Maturity level based on review



Review	Maturity %
PDR (Preliminary Design Review)	60%
FDR (Final Design Review)	90%
PRR (Production Readiness Review)	100%
prototyping	10-15%
contracts on	100%

# PMMA and Gd loaded PMMA

Item	Cost	Funding source	Status	Comment
<b>Gd compound</b> (DS20k and mockup)	400k USD	IHEP	secured	
<b>DS20k GdPMMA production &amp; machining</b> (8 panels + Veto bricks)	970k USD	See the table shown by Graham	NSF secured ? IHEP: new proposal, time unclear	VAT excluded
<b>Mockup Gd PMMA production &amp; machining</b>	115 k USD	?	Very urgent	VAT excluded Very urgent!
<b>Pure acrylic for DS20k</b>	200 k USD	?		
<b>Pure acrylic for the mockup</b>		CFI (Alberta)	Already purchased by Alberta Univ,	
<b>Thin panels for the reflector cage</b> (DS20k and mockup)	?	NSF (UC Davis) ?		

# DonChamp quotation, Gd loaded PMMA

Description	Length (mm)	Width (mm)	Thickness (mm)	Quantity (Shts/panels)	Weight (Kg's)	Total Weight (Kg's)	Price / M2 (USD\$)	Unit Price (USD\$/kg)	Price (USD\$/Sheet)	Total Amount (USD\$)
Clear Acrylic panel	8000	3200	170	4	5178.88	20715.52	\$8,218.44	\$40.63	\$210,392.00	\$841,568.00
Extra processing cost for 1630*3600*150										\$95,487.00
Package cost and EXW price										\$11,734.00
PC SUM estimated DDP price to Laboratori Nazionali del Gran Sasso Via G. Acitelli, 22 67100 Assergi L'Aquila Italy	shipping cost from factory to Laboratori Nazionali del Gran Sasso Via G. Acitelli, 22 67100 Assergi L'Aquila Italy									\$18,000.00
	DUTY 6.50% ON CIF VALUE									\$62,841.29
	VAT 22% ON CIF VALUE & DUTY									\$226,518.66
	Other fee									\$3,000.00
<b>Total DDP Price</b>				<b>4</b>		<b>20716</b>				<b>1259149</b>



# Mockup (from the cost book)

B	R	S	T	U	V	Z	AA
Activity Name	Institution	Funding Agency	Grant/Funds Identifier	Funds Classification	Funding Status	GL MS [EU€]	GL LB [EU€]
HV system power supplies	UC Davis	NSF	SF Constructio	Capital MS	Spent	€ 57,000	€ -
HV system feedthrough and cable fabrication	UC Davis	NSF	SF Constructio	Capital MS	Spent	€ 50,350	€ -
TPC acrylic materials procurement	Alberta	CFI	CFI DarkSide	Capital MS	Spent	€ 18,711	€ -
TPC field cage development & testing	UC Davis	NSF	SF Constructio	Capital MS	Spent	€ 30,400	€ -
TPC reflector development & testing	UC Davis	NSF	SF Constructio	Capital MS	Funded	€ 30,400	€ -
Fabrication of proto / mock TPC anode, cathode	Alberta	CFI	CFI DarkSide	Capital MS	Spent	€ 112,500	€ 147,375
Mockup TPC extraction grid winding and fabrication	Houston	NSF	NSF Midscale	Capital MS	Requested	€ 89,608	€ -
1t cryostat procurement	Roma1	INFN	INFN CSN2	Capital MS	Spent	€ 60,000	€ -
						<b>€ 448,969</b>	<b>€ 147,375</b>

According to the present cost book, these appears the only available dedicated resources.  
Most have been already spent