

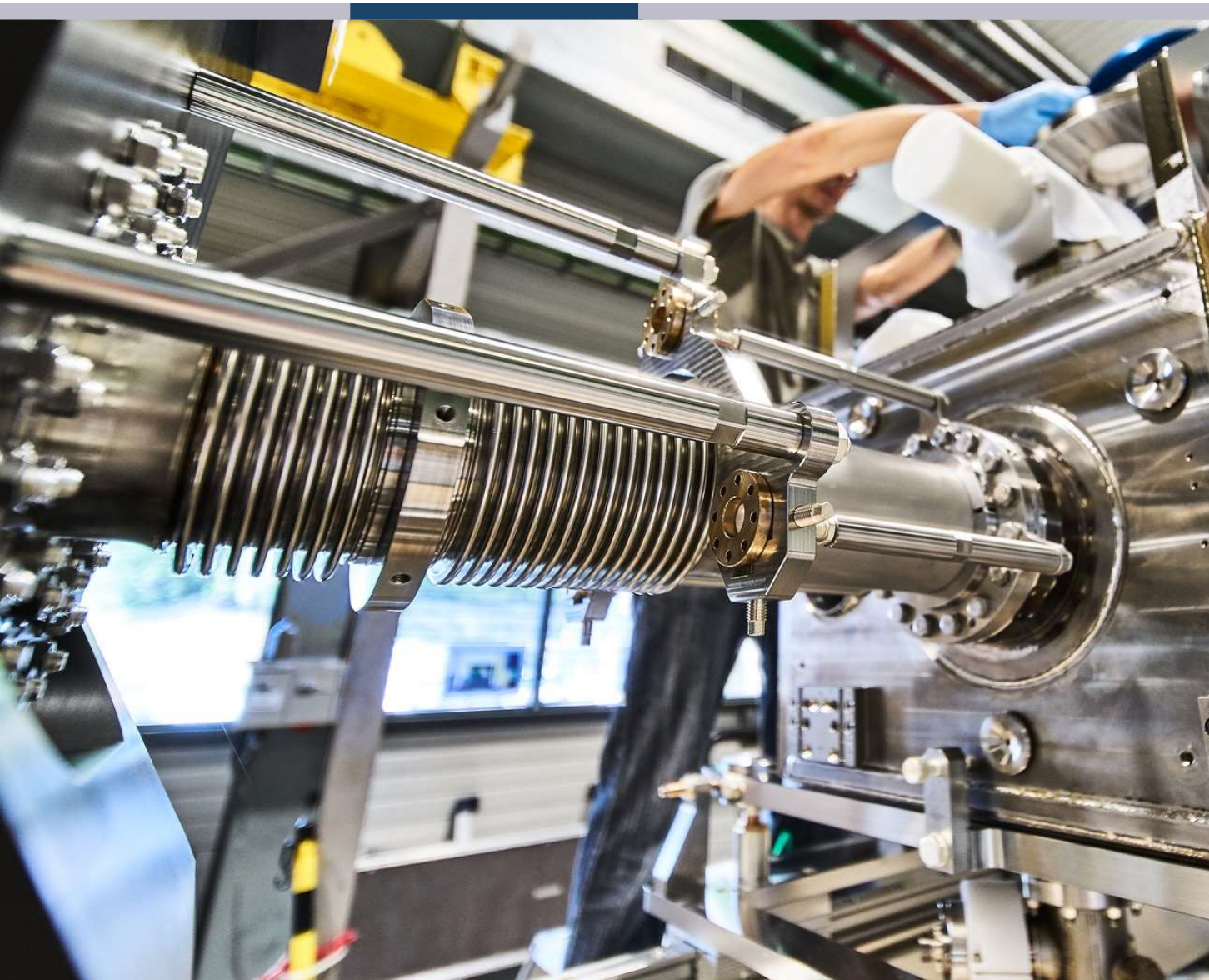


Upcoming Tenders at CERN **Holland@CERN**

Lisa Bellini-Devictor

Head of Procurement for Administration and Infrastructure

25 June 2021



Agenda

- HL-LHC
- FCC
- High Field Magnets (HFM)
- Other opportunities

Current project - HL-LHC

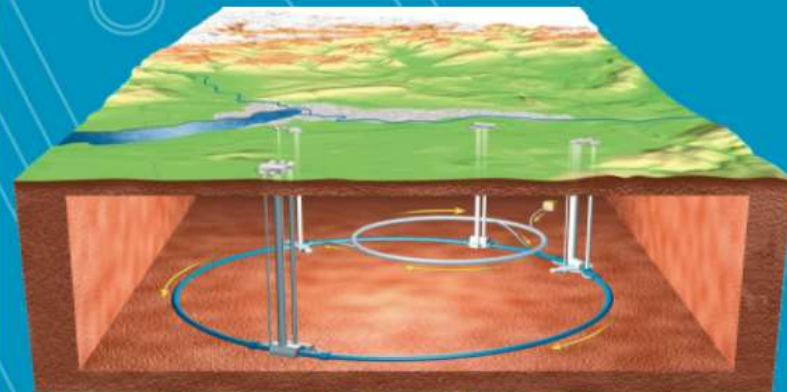
Dedicated web page for industry

Building the HL-LHC with the Industry

The HL-LHC Industry Website has been specially designed for all those firms that wish to participate in this ambitious project. We want to share all the relevant information related to the procurement that will be required to accomplish this major upgrade of the LHC.

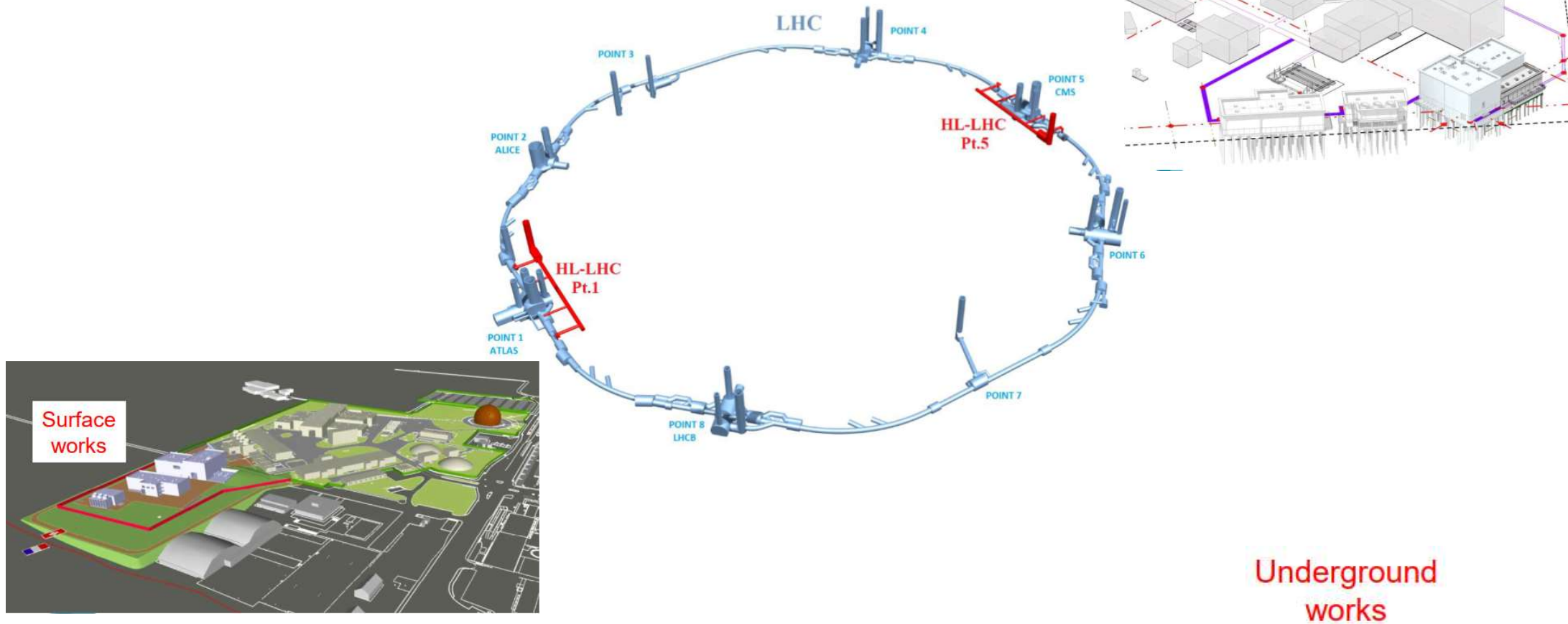
The industry will have a crucial role and will be heavily involved within the **HL-LHC Project** since it will be the main source to provide the technologies and equipment that are required to successfully achieve the goals of this upgrade of the LHC.

The HL-LHC will collaborate with many types of industries and businesses to pursue its goals. Knowledge and technology to be developed during the HL-LHC project will make a lasting impact on society.



<https://project-hl-lhc-industry.web.cern.ch/>

Current project - HL-LHC



HL-LHC



HL-LHC – upcoming MS announced

Market Survey documents not yet dispatched – **express interest and you will receive the invitation to answer the MS**



14-06-2021	Supply	New MS-4666/EN/HL/LHC	Supply and installation of eight mobile doors to be fitted with shielding in the HL underground caverns of the LHC accelerator (01020416)	CERN intends to place a contract for the supply and installation ... Interested firms shall have a proven experience and competence in the ... Read More	A	Third quarter 2021	To express an interest please send an e-mail to procurement.service@cern.ch Technically: C. Bertone Commercially: F. Bonthond
08-06-2021	Supply	New MS-4690/SY/HL-LHC	CERN intends to place a contract for the supply of 110 HPM7177 Digitizer for HL-LHC. (03040100 , 03050100 , 03500200)	CERN intends to place a contract for the supply of ... Interested firms shall have a proven experience and competence in the ... Read More	A	Third quarter 2021	To express an interest please send an e-mail to procurement.service@cern.ch Technically: N. Beev Commercially: D. Schoerling
25-02-2021	Supply	MS-4678/SY/HL/LHC	Supply of 36 power converters of ± 2000 A and ± 10 V for CERN's LHC Hi-Luminosity project. (02100700)	CERN intends to place a contract for the supply of ... Interested firms shall have in-house facilities for the production and testing ... Read More	B		Market Survey documents



Market Survey documents already dispatched – You can still express interest by calling the procurement officer – may still be possible to answer the MS

All starts with an email...

Dear Sir, Madam,

[CERN](#) invites you to submit a bid for the above mentioned supply and asks you to acknowledge receipt of this e-mail by replying to the sender.

1. Downloading the price enquiry documents:

All the documents forming part of the price enquiry are available via the CERN e-tendering application at the following URL: <https://cds.cern.ch/record/XXXX>. Please ensure that when you click on the above link, the complete URL appears in the URL address window.

In order to access the price enquiry documents, bidders must have a CERN account with a password. Bidders who do not have an account will have to create one by clicking on the following link: <https://account.cern.ch/account/Externals/RegisterAccount.aspx>. The email address to be indicated in the form as requested shall be the one used by CERN to send you the present message.

2. Uploading your bid:

All the documents forming part of your bid shall be uploaded on the CERN e-tendering application at the following URL: <https://cds.cern.ch/record/XXX> no later than DATE – 4:00 pm (Expressed in Europe/Zurich time zone). The uploading of your bid may take time therefore we advise you to start uploading your bid in the CERN e-tendering application at least one hour before the time limit.

By uploading its bid to CERN's e-tendering application, the bidder confirms it has taken note of all documents available under the e-Tendering platform for the price enquiry concerned.

The available tender form forms part of this price enquiry shall be completed and signed by the bidder's authorized representative, as well as any other document to be returned to CERN.

Unless explicitly stated otherwise by CERN, bids shall, in no event, be sent by post, e-mail or fax. CERN will only accept bids that have been submitted via its e-tendering application.

The uploading of your bid is complete when you receive a confirmation on the e-tendering screen and an e-mail confirmation including the URL of your submission. Please keep this URL for your records and note that you have the possibility to make modifications to your bid by clicking on this URL until the submission deadline.

Failure to follow the instructions specified in this e-mail may lead to the disqualification of the bidder.

In case you do not intend to submit a bid, please inform us, at your earliest convenience, by using the button [\[Decline\]](#) in the CERN e-tendering application at the following URL: <https://cds.cern.ch/record/XXXX>

If you have any problems or enquiries regarding the registration of your firm, the download of price enquiry documents or upload of your bid please contact procurement.service@cern.ch

Yours faithfully,

--

Procurement Service
CERN European Organization for Nuclear Research
CH-1211 Geneva 23
Tel: +41 22 767 00 85
<http://procurement.web.cern.ch/>



To ensure our emails reach your inbox please add our email procurement@cern.ch to your safe senders and check your spam filter settings.

Supply of Shielded Mobile doors for HL-LHC underground facilities

[MS-4666/EN/HL-LHC](#)

Procurement Code: 01 02 04 16

Cost Range : A

Planning: **MS: Q3 2021** / IT: Q4 2021

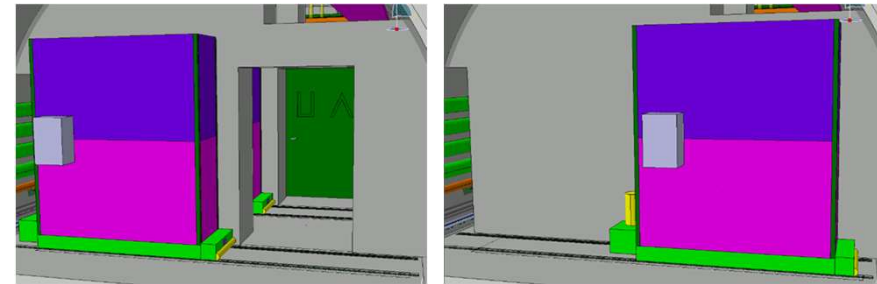
Description and Specific Condition :

Supply of 8 shielded mobile doors to be installed in the HL underground facilities in YETS 2022-2023.

Supply of motorized basement and installation in situ: 4 doors in Switzerland (Meyrin-ATLAS) and 4 doors in France (Cessy-CMS).

The shielding will be procured and delivered by another contractor. It will be fixed by the supplier on the motorized basement before the commissioning tests.

Contact: caterina.bertone@cern.ch



Supply of 110 HPM7177 Digitizers for HL-LHC

MS-4690/SY/HL-LHC

Procurement Code: 03 04 01 00, 03 05 01 00, 03 50 02 00

Cost Range : A

Planning: **MS: Q3 2021** / IT: Q4 2021

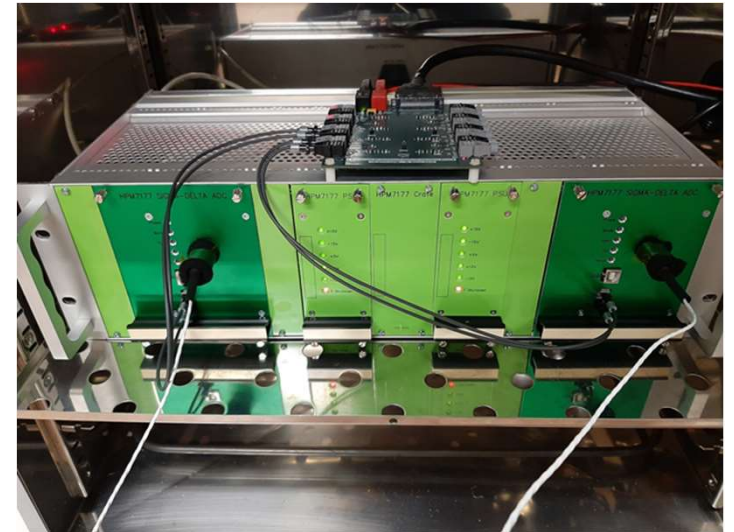
Description and Specific Condition :

Supply of 110 Digitizers for HL-LHC (HPM7177 – CERN design):

- 110 analog to digital converter units (ADCs)
- 110 power supply units
- 55 19-inch chassis units

Contact:

nikolai.beev@cern.ch



Supply of Power Converters for HL-LHC Project

Procurement Code: 02.10.00.00

Cost Range : A, B

Planning: several processes MS: Q2 /end 2021 / IT: end 2021/2022

Description and Specific Condition :

Low Voltage Power : 657 Power Converters

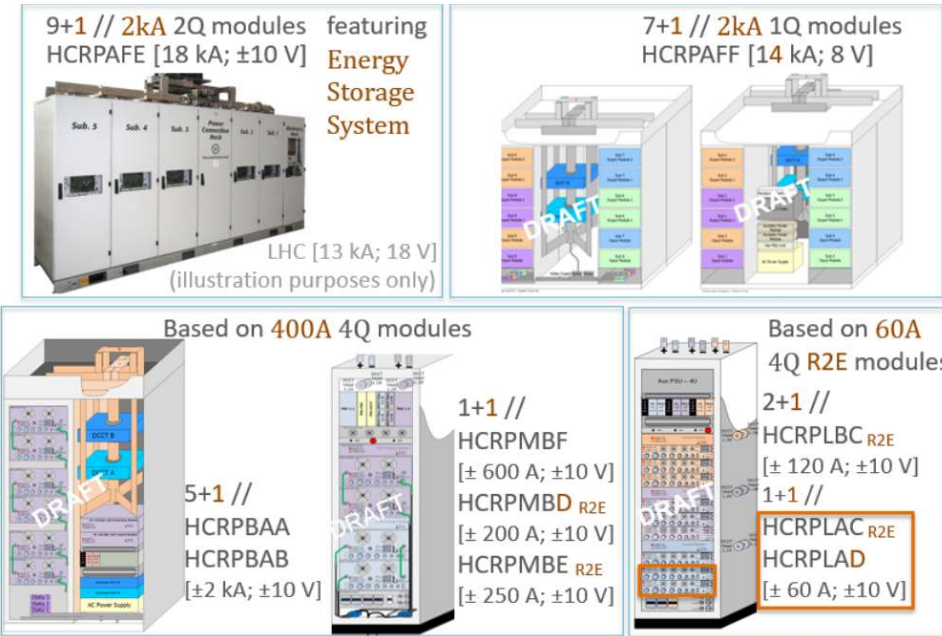
Designed by CERN => Build to print

Very high current: HL-LHC 18kA-10V : 6 units + HL-LHC14kA-08V : 10 units

High current: HL-LHC 2kA-10V : 36 units – MS-4678/SY/HL-LHC (dispatched)

Medium current: HL-LHC 600A-10V : 26 units (MS: end 2021, not yet announced)

Low current: R2E-HL-LHC120A-10V : 136 units + R2E-HL-LHC60A-10V : 442 units



Construction of Electrical Substation LHC P5 (CMS)

Contact: stephano.bertolasi@cern.ch

Procurement Code: 02.01.00.00; 02.02.00.00;
02.70.00.00

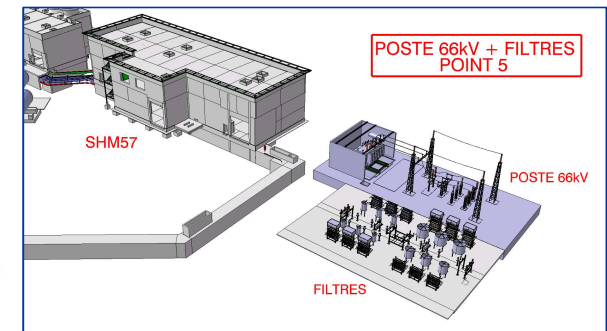
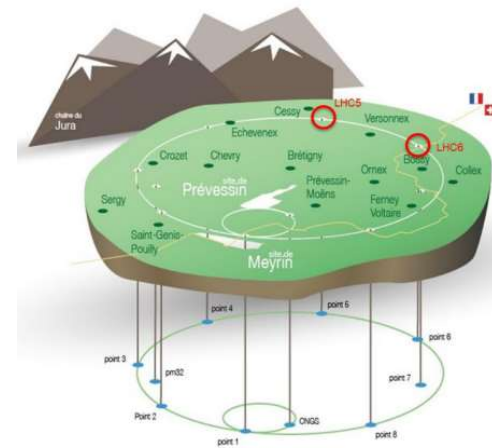
Cost Range : C

Planning: MS: Q1 2022 – IT: Q3 2022

Description and Specific Condition :

66/18 kV substation - 38 MVA transformer to accommodate the increased requirement at Point 5 for HL-LHC facilities

MS + IT : Turnkey contract for the supply, installation, testing and commissioning of the new electrical 66/18 kV substation located on the French part of the CERN site, at Point 5 and option for extension of existing substation at Point 6 .



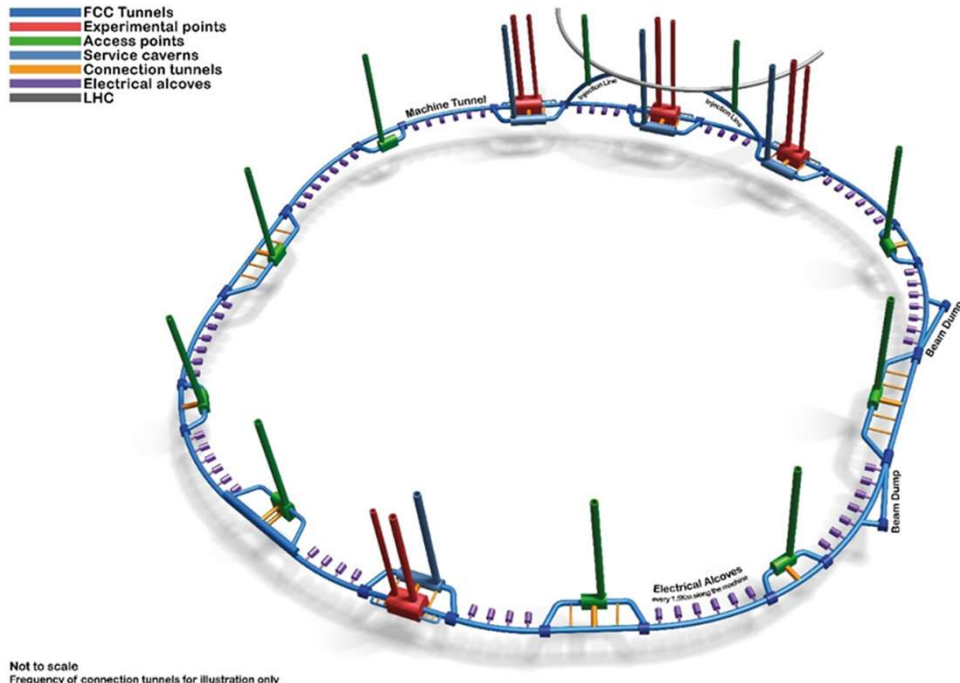
Future project – Future Circular Collider



The FCC study prepared a conceptual design of a 100km long ring accelerator, that uses CERN's existing accelerator infrastructure. (Image: CERN)

- The FCC study launched as a result of the recommendations made in the 2013 update of the European Strategy for Particle Physics.
- Since then, the CERN civil engineering team has been studying the feasibility of a tunnel in the range of 100 km in the Geneva region.
- A Conceptual Design Report (CDR) published in January 2019, to feed in to the update of the 2020 European Strategy for Particle Physics. *More information about the FCC feasibility studies is available in the CDR volumes accessible at <https://fcc-cdr.web.cern.ch/>*

Future project – Future Circular Collider



3D schematic of FCC underground structures for baseline design

As part of the current feasibility studies and identification of any showstopper in the construction of such tunnel

FCC site investigation works for the proposed 100 km ring will be carried out in three phases:

- High-Risk Areas Site Investigations (HRASI) – (2021-2024)
- Main Site Investigations (2025-2027)
- Additional Site Investigations upon Project decision in 2027

Tender process for the delivery of High Risk Areas investigation work should be initiated in 2022 – will be announced on CERN Procurement Website

Collaboration partners wanted: HFM program

- **High-field superconducting magnets (HFM) are a key technology for future accelerators, and can have a significant impact also on societal applications such as thermonuclear fusion, ultra-high-field magnetic resonance imaging (MRI), medical accelerators, other medical applications such as gantries, etc.**
- **This HFM R&D programme will be carried out within an expanded collaboration with research laboratories, institutes and industry in the Member States and beyond.**
- **A significant amount of the budget will be invested in industrial procurement and collaborations with European institutes.**



CERN Shopping List

<https://found.cern.ch/java-ext/found/CFTSearch.do>

IPT Procurement and Industrial Services Group

[Print View](#)

Forthcoming market surveys and calls for tenders

Advance information on forthcoming market surveys and calls for tenders expected to exceed 200,000 Swiss francs.

In the line entitled Cost Range, a very rough indication of the cost range of the product is given in the form of letters **A, B, C, D**. **A** represents items estimated at less than 750 kCHF, **B** represents items between 750 kCHF and 5 MCHF, **C** represents items between 5 MCHF and 10 MCHF and **D** represents items above 10 MCHF.

Firms may reply to the Market Survey published in the table below up to two weeks before the corresponding Invitation to Tender is sent out. Therefore, in case the deadline for replies indicated in the Market Survey cover letter is over, please send your reply to the Market Survey at the earliest possible date.

The countries of origin of supplies and services shall be [CERN Member States](#), except if provided otherwise in the table below.

References marked with "New" have been posted during the last 8 weeks.

Search Menu Links Menu

Type of Contract: Market Survey dispatched:

Reference: Call for Tenders scheduled for dispatch:

Activity Code: Description and/or Specific Condition:

Requirement: Commercial contact:

Cost Range: Publication Date: From To dd-mm-yyyy

Publication Date	Type of Contract	Reference	Requirement (Activity Code)	Description/Specific Condition	Cost Range	Market Survey scheduled for dispatch	Contacts and Interest in being contacted / Market Survey Documents	Invitation to Tender scheduled to dispatch
03-10-2018	Supply	New MS-4489/SMB	Civil-engineering works for the design and construction of new Building 937 situated on CERN's Prevestin site in France. (01020101, 01020102)	CERN intends to place a contract for the design and construction ... Interested firms shall have a proven experience and competence in design ... <input type="button" value="Read More"/>	B	Fourth quarter 2018	To express an interest please send an e-mail to procurement.service@cern.ch Technically: S. Cahuet Commercially: A. Horridge	First quarter 2019
26-09-2018	Supply	New MS-4486/TE/HL-LHC	Supply of 600 below expansion joints of 10 different types for HL-LHC (06010100)	CERN intends to place a contract for the supply of ... Interested firms shall have a proven experience and competence in the ... <input type="button" value="Read More"/>	A	Fourth quarter 2018	To express an interest please send an e-mail to procurement.service@cern.ch Technically: Y. Leclercq Commercially: J. Pierlot	First quarter 2019
17-09-2018	Supply	New MS-4470/IT	Framework Market Survey concerning the supply of Desktop PC, Mini-PC and Laptop (portable) PC office computers (04010500, 04010700)	CERN intends to place several contracts for the supply of PCs, ... Interested firms shall have a proven experience and competence in Intel ... <input type="button" value="Read More"/>	B	Third quarter 2018	To express an interest please send an e-mail to procurement.service@cern.ch Technically: G. Metral Commercially: H. Gerster	Fourth quarter 2018
10-09-2018	Supply	New MS-4469/EN	Supply of system interconnections and industrial wiring. (02070300, 03030100, 03030200, 13030500)	CERN intends to place a three years blanket contract for the ... Interested firms or group of firms shall have proven competence, experience ... <input type="button" value="Read More"/>	A	Third quarter 2018	To express an interest please send an e-mail to procurement.service@cern.ch Technically: G. Canale Commercially: N. Azizi	Third quarter 2018

Projects of an estimated value exceeding 200 kCHF



25/06/2021

Holland@CERN Lisa Bellini-Devictor

MS-4479/TE/LHC

Supply of a central beryllium chamber for the Atlas Experiment

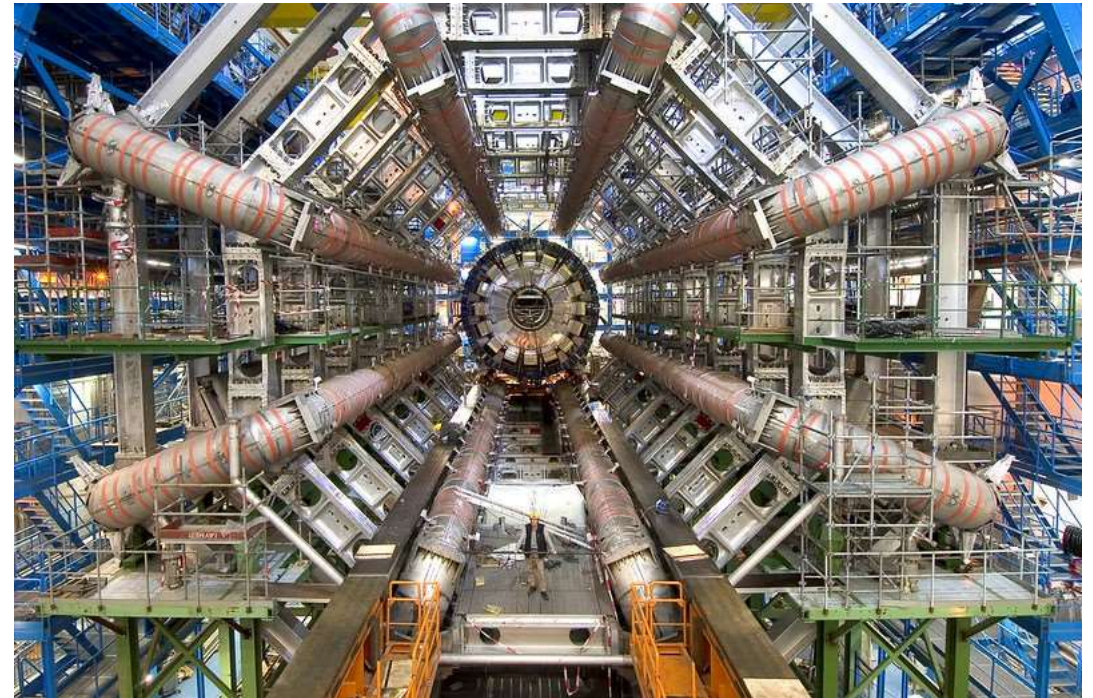
Procurement Code: 06.01.02.03

Cost Range: B

Planning: MS: Sent / IT: Q4 2021

Description and Specific Condition :

The beryllium chamber shall have the following characteristics: cylindrical vacuum chamber ID = 47mm, L = 7300 mm made from beryllium (S-200-F; 98.5% of Be) and equipped with special minimised aluminium flanges.



Contact: Josef.Sestak@cern.ch

MS-4643/EN

Supply of water cooled cables

Procurement Code: 02.05.05.00

Cost Range : B

Planning: MS : Q3 2021 / IT: Q4-21/Q2-22

Description and Specific Condition :

Flexible water cooled cables of section 500 to 2000mm², with **rad hard hoses** according to IS23

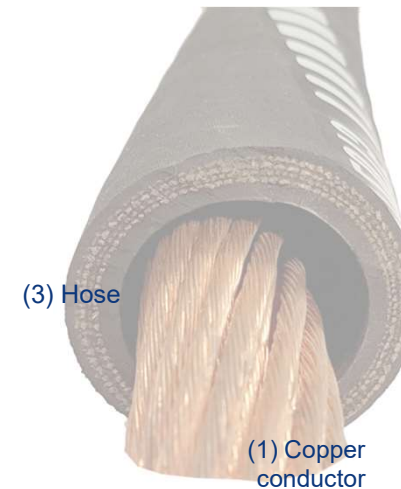
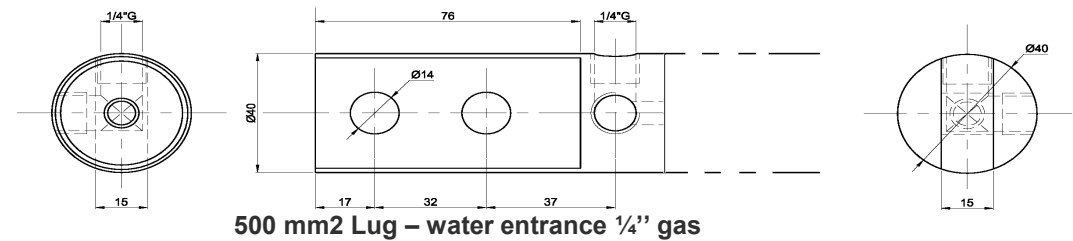
Required for current and future CERN projects : FRESCA 2, IT STRING TEST, HL-LHC

Terminals included in the supply shall be mounted

Complete link shall be tested under water pressure by the supplier

Interested firms shall have a proven experience and competence in the design and manufacturing of supply of cables with special rad hard hoses.

Contact: davide.de.luca@cern.ch



MS-4600/EN

Design and implementation of Industrial Controls and Personnel Safety Systems upgrades

Procurement Code: 10 11 02 00

Cost Range : D

Planning: MS : Q3 2021 / IT: Q4-21/Q2-22

Description and Specific Condition :

Blanket purchase contract for six years, for design and implementation and maintenance of Industrial Control systems and in particular studies and upgrades to safety systems, especially in the domain of personnel Protection for RUN3 and LS3

The supply consists in large-scale industrial controls, monitoring and safety systems and the maintenance of existing ones to protect personnel working in the accelerator infrastructure and underground facilities from the accelerators hazards linked to radioactivity, X-rays, lasers, electricity and cryogenics

Contact: rui.nunes@cern.ch



Other upcoming tender opportunities (not HL-LHC)

Opportunities for the CERN Stores (Industry off the shelf or CERN standard items):

- **Supply of stainless steel 3D forged blanks in stainless steel (EN 1.4429 AISI 316 LN) for Ultra-High Vacuum applications**
MS-4656/SCE dispatched on 16 March (Cat B)-still opened
- **Supply of woods products for engineering and construction applications**
MS-4657/SCE to be dispatched (Cat A)
- **Supply of Power Distribution Units (PDU) 250V for 19-inch racks**
MS: Q2 2021 (Cat A)

Thank you



home.cern