

Kontraktbilag 1A

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Project Description - DCPT

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Central Denmark Region

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April 2015

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DANISH CENTER FOR PARTICLE  
THERAPY – DCPT, DNU

**Final Tender**

Project Description

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**PROJEKT**

Danish Center For Particle Therapy – DCPT, DNU

Project Description

Central Denmark Region

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Projekt nr. 218477  
Dokument nr. 1215437001  
Version 4  
Udarbejdet af LNF  
Kontrolleret af KAJ  
Godkendt af NIO

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## 2 INFORMATION

### 2.1 Client

Region Midtjylland – DNU  
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8200 Århus N

Contact and client project leader:

Mads Konge Petersen

### 2.2 Client Advisor

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Any contact to the client in connection to this invitation to tender must be made in writing to the client adviser and simultaneously for both of the above persons to ensure that any absence does not impede rapid processing of the request.

### 2.3 Architectural Advisor

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8000 Århus C

Contact:

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### 2.4 Legal Advisor

Juridisk kontor  
Region Midtjylland  
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Marianne Pagh Lübeck

External legal advisor

Advokatfirma Bech Bruun

Tina Braad

### 2.5 Project Description

The project includes the design and construction of the Danish Centre for Particle Therapy - DCPT.

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The approximately 8,000 m<sup>2</sup> center, will be the first one of its kind in Denmark and will in the future be providing highly specialized cancer treatment, to cancer patients from across the country.

With the construction of the Danish Centre for Particle Therapy (DCPT), the selected contractor gets to work on a unique project, which is also a major milestone for cancer treatment in Denmark. The project will have focus and attention from the entire health sector, where among other politicians and media will follow the project closely. The project is therefore expected to be a prestige project for all parties involved.

Danish Centre for Particle Therapy will be established in an approximately 9,000 m<sup>2</sup> large construction site, next to the Oncology Department at Aarhus University Hospital in Skejby. The center will be equipped with a proton accelerator, three treatment gantries, one research room, research facilities and facilities for patients, caregivers and clinical staff.

The actual proton installation in the Danish Centre for Particle Therapy, plays a vital role in the design of the building. This means, among other things, that the building design must be established in close cooperation with the equipment supplier who participated in the dialogue process and will participate in the later design stage.

The reason for this is to ensure, that the risks associated with managing interfaces between construction and equipment is minimized and to ensure that the project meets the strict requirements which are to include radiation protection, tolerances and supply to the proton accelerator.

The turnkey contract includes basically everything that is not a direct supply of equipment.

## **2.6 Vision for the Danish Centre for Particle Therapy (DCPT)**

It is pre-eminently unique for Denmark to have a Centre for Particle Therapy. Located close to the largest research centre for radiation treatment in Scandinavia and home to internationally recognised researchers within the field of cancer treatment, the centre will have state-of-the-art equipment and be in close proximity to the only centre of accelerator physics in the country. On this background, the centre will contribute to optimising research in Denmark with the aim of evolving a gentle form of cancer treatment using particle therapy.

The centre will facilitate new and gentler cancer treatment to patients in Denmark, effectively saving Danish patients the trouble of having to travel long distances during their illness in order to obtain the required treatment; the long-term vision is to be among the best cancer research and treatment establishments in the world using particle-based radiation, since this kind of radiation treatment is expected to have major influence on cancer treatment over the next decade.

## 2.7 General description of the scope of the assignment

The New University, hereafter referred to as DNU, is the term for the total hospital city in Skejby. DNU consists of a somatic part which is divided into five somatic centers (Abdominal Center, Heart Center, Head\_Neuro\_Center, Cancer and Inflammation center) with associated services and Psychiatric Centre, which consists of Forensic Psychiatry, adult, child- and youth psychiatry.

DNU is a common name for all the buildings and the functions related to the hospital.

The present tender deals with the creation of the Danish Center for Particle Radiotherapy, including connections to existing S3 as shown on Figure 2.1.

## 2.8 Construction site

The construction site is placed as an independent unit in close connection with the rest of the DNU. The site is bounded on the west, south and east of three different roads, of which each is a central part of the infrastructure of DNU. To the north of S3, to which there also must be established connections on two levels.

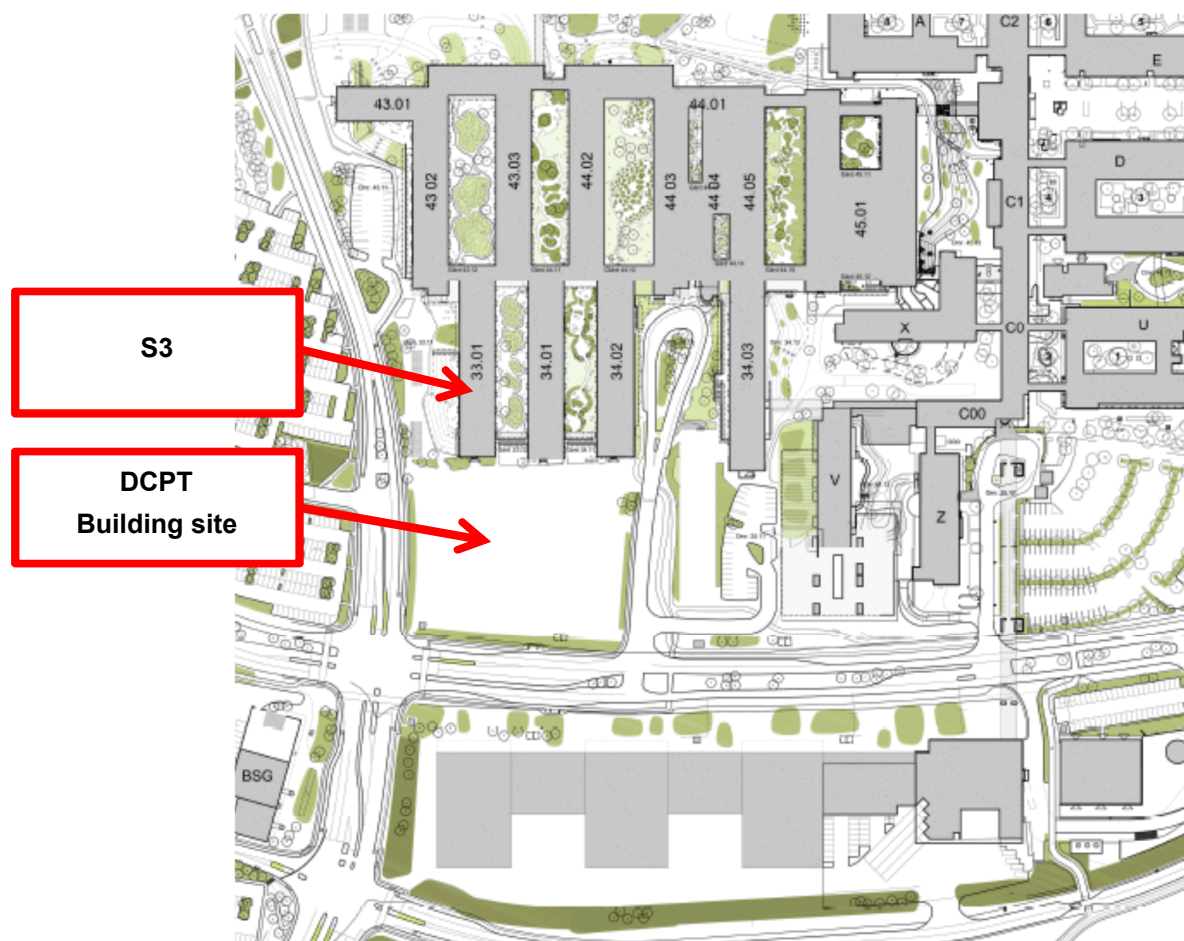


Figure 2.1 Illustration of the DCPT building site and the S3 building site