

Sanjay Gandhi Postgraduate Institute of Medical Sciences

Raebareli Road, Lucknow www.sgpgims.org.in

Gallery 4.4.3: MOU with national knowledge network



ADDENDUM TO THE MEMORANDUM OF UNDERSTANDING UNDERNKN

This document constitutes an Addendum to the MoU /Agreement between National Knowledge Network and Sanjay Gandhi Post Graduate Institute of Medical Sciences (SGPGIMS),

WHEREAS, the NKN and the Sanjay Gandhi Post Graduate Institute of Medical Sciences (SGPGIMS) (hereinafter referred to as "parties") entered into a Memorandum of Understanding for Services on National Knowledge Network(hereinafter referred to as MOU) valid till 31st Dec 2019.

WHEREAS, this Memorandum of Understanding remains in full force and effect, and WHEREAS, the said parties now have agreed to make an addendum to the MOU for Services on National Knowledge Network. NOW, THEREFORE, the parties hereto agree as follows:

For the purpose of mutual benefits of the Parties, Para No. 2 "Terms of the Agreement" of the MOU is amended and will read as follows:

- The term of this agreement has been extended till extended period of current phase of NKN
- · Remaining Terms and Conditions of the agreement would remain same

The undersigned duly authorised thereto by their respective parties have signed this addendum to MOU.

Project Director on behalf of the National Knowledge Network Authorized signatory on behalf of the Institute

Jary 2.1

email: Info Gerbani as in / 245-256 B951 VC: 14.139.245.136

Figure 1: Memorandum of understanding between National

Knowledge Network and SGPGIMS

Lt Col Varun Bajpai VSM Executive Registrar SGPGIMS,Lucknow



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Brief Background on Internet Bandwidth Instructure evolution at SGPGI

- At SGPGI, First internet connection was taken from Department of Telecommunication, Govt of India. It was through Radio Link.
- 2004- Supply order was issued by SGPGI to M/s Sify Ltd for 512 KBPS (1:4) leased line internet connection in July 2004. The same was installed in September 2004. It had 64 kbps ISDN backup line. The backbone used was from BSNL.
- 2005 SGPGI Up-gradated 512 Kbps line to 1 Mbps in September 2005 from the same internet service provider i.e. M/S Sify Ltd.
- 2008 SGPGI issued Supply order to M/s Bharat Sanchar Nigam Limited (BSNL) for 2Mbps (1:4) leased line internet connection in July 2008.
- 2009- SGPGI upgraded link from 2 Mbps to 10 Mbps (1:1) in November 2009 from the same ISP
 i.e. BSNL. Later on it was upgraded to 20 Mbps leased line (Managed leased line Circuit) by BSNL
 but it did not work properly. It was discontinued & Leased line of NKN is being used.
- SGPGI & Telemedicine both has separate 10 Mbps BSNL Leased Line costing approx. 13,00,000/-(Thirteen Lakhs) Per Annum.
- GRID GARUDA initiative is a collaboration of the Scientific, Engineering and Academic Community
 to carry-out research and experimentation on a nationwide grid of computational nodes, mass
 storage that aims to provide the distributed data and compute intensive High Performance
 Computing solutions for the 21st century.
- 2007 Garuda grid middleware deployed at STBMI and connected to High Performance Computing (HPC) at CDAC Bangalore.
- 2009-2010 Garuda started migrating to National Knowledge Network (NKN) in 2009-10 thus given 1 Gbps Last mile connectivity to SGPGI and Garuda link over NKN in priority.
- National Knowledge Commission recommended connectivity with Institute of Learning with high speed Internet.
- 2010 National Knowledge Network (NKN) was implemented by National Informatics Center (NIC), New Delhi and is terminated in the Router installed in the Data Center of Telemedicine.
- Underground redundant Fiber cable was laid down to provide seamless internet services to the institute with 10 Gbps bandwidth.
- 2014-15 MoU between National Knowledge Network (NKN) and Institute was signed (Agreement Registrar No. 186) (Folio No. 35)
- Clinical Telemedicine Practice over NKN migrated in the same year along with backup option of BSNL/ ISRO VSAT / Reliance Network & ISDN Lines for next few years.
- NKN was available to other cancer grid projects in which.
- 2016- In January 2016, 10 Mbps BSNL Lease line at STBMI was disconnected. (Folio No. 39)
- 2018- Reliance Jio Internet Connection was received under National Cancer Grid (NCG) Project by
 Dept. of Radiotherapy who is focal point to connect cancer hospitals in India and was terminated
 in Institute Router. It is active at Department of Radiotherapy and is used for Virtual
 sessions/meeting to connect cancer registry databases and Cancer Protocol Programs (Folio No.
 40-42)
- Currently Institute and Telemedicine both are using NKN Bandwidth for Data Center, WiFi,
 Campus Network & eMail Services, Hospital Information System (HIS), eLearning Services at Library & Telemedicine Services etc. etc. (Folio No. 36-38)
- . Ammendum to the Memorandum of Understanding Under Taken (Folio No. 43-45)

Figure 2: Memorandum of understanding between National
Knowledge Network and SGPGIMS

Lt Col Varun Bajpai VSM
Executive Registrar