



Data Center Project



Government of Nepal
Ministry of Communication and
Information Technology



Background

Data centers are pivotal to modern computing, acting as crucial infrastructure that support a broad spectrum of digital activities. These centers are essential for hosting websites, applications, and handling extensive data storage and processing needs. The importance is underscored by their role in business continuity, disaster recovery, scalability, security, and compliance. The rising reliance on Cloud Computing, E-commerce, Big Data Analytics, IoT, and Edge Computing further amplifies the need for robust data center capabilities. Nepal, with its abundant hydroelectric potential due to its extensive water resources and rugged terrain, presents a unique opportunity for cost-effective data center operations. The strategic development of high-altitude data centers can leverage cheaper electricity costs due to cold climate which reduces the operational expenses. Encouraging both local and international investment in this sector can transform Nepal into a significant hub for data centers, fostering national development and prosperity.



Sector
ICT



Proposed Location
All Over Nepal
(Especially on High altitude)



Area
2.54 hectares

Project Rationale



Efficiently store, manage, process, and distribute data and applications



Channelizing shared resource



Offering job opportunities within the information technology sector



Establish Nepal a hub of Data Center, driving economic growth and utilizing resources

Salient Features



Lower Operating Cost



Lower Electricity Consumption



Lower Human resource cost



Lower services cost

Project Outcomes



Employment Generation



Boosting involvement of private sector



Foster Innovation



Enhance technical capabilities



Infrastructure Development



Cost effective services



Growth of skilled human resource



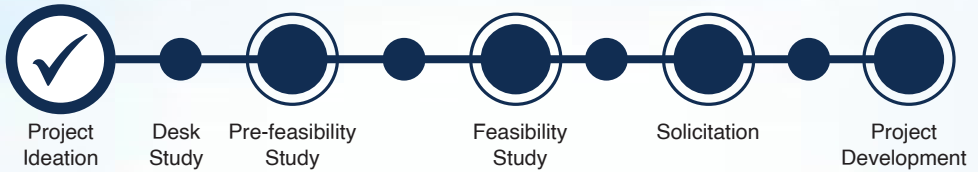
Integrated services

Project Implementation Modality



Public Private Partnership (PPP)

Project Implementation Stage



Relevant Agencies

- Ministry of Communication and Information Technology
- Department of Information Technology
- Ministry of Education, Science and Technology

About the Agency

The Ministry of Communication and Information Technology (MoCIT) serves as a pivotal government agency in Nepal, established in 1992 AD (2049 BS). It widely covers postal services, telecommunications, broadcasting, press and information, and film development. MoCIT plays a crucial role in the nation's socio-economic advancement. The ministry is dedicated to promoting democratic culture by supporting freedom of expression and ensuring the right to information for all Nepalese. Central to its mission is the enhancement and expansion of the information and communication sector, including significant private sector involvement and extending infrastructure to rural areas, its long-term vision is centered on leveraging cutting-edge technology to foster national prosperity and continuous development, emphasizing universal connectivity & sustainable digital transformation.

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