



# Kathmandu Institute of Child Health

Damak Children's Hospital, Jhapa, Province 1

**KIOCH** [Kathmandu Institute of Child Health] is a not-for-profit organization established in 2017. It aims to deliver integrated multispecialty high-quality child healthcare that is affordable, accessible, and available to all, thus advancing Quality of Life of Children in Nepal. KIOCH focuses on providing solutions to ever rising healthcare needs and consistent poor health outcomes for millions of children in Nepal. It believes on timely adaptation of scientific medical advances, technologies and valued people-centered care that are of international standards.

**KIOCH** is led by a group of professionals actively engaged in social welfare and well-being of people. The team comprises of diverse expertise with proven leadership in the field of medical science, social welfare, social enterprise, public communication, and community empowerment, among others. (See Board Members in annex 2)

## **A high time to focus on high-quality integrated multispecialty childcare hospital in Nepal:**

- *·Almost 25% of the population in Nepal lives in poverty. Over 40% of Nepal's population is below the age of 18 years, which amounts to almost 12 million children.*
- *·Disparities in health outcomes by gender, ethnicity, and geographical location exist. Accelerated efforts needed to ensure equitable healthcare considering poor, urban poor, and people from remote areas and marginalized groups.*
- *·While Nepal has a network of 4,118 health facilities in public sector, and over 350 private sector health facilities, addressing demands for quality child healthcare is overly challenging with only one dedicated child hospitals in public sector which is often overwhelmed.*
- *·Ensuring constitutional mandate of 'access to basic healthcare services as a fundamental right of the people' calls for a viable partnership between state and non-state sectors in federal context.*
- *·Current evidence shows that many causes of deaths among children could be averted, if the child is able to access specialized healthcare in time. However, there are only a few children hospitals and less than 1000 beds in the country for 12 million children in Nepal.*

**HUB-AND-SPOKE MODEL:** KIOCH will begin accomplishing its aim by establishing a multi-specialty childcare hospital (hub) in the nation’s capital, Kathmandu. Next, the KIOCH “spokes” or satellite centers will be established in strategic locations, at least one in each province. These spokes will act as gateways that channel patients to the main hub in Kathmandu, with coordinated and phased manner. The ultimate goal is to create a child healthcare network that supports the needed specialties. Gradually, satellite centers will be built out to be able to provide more advanced care. In summary, the hub-and-spoke configuration suits the geographical challenges and economic conditions of Nepal and will make it possible for pediatric specialty care to be more available, accessible, and affordable.

Plan to construct the main building is underway. Detailed building design of hub hospital in Kathmandu has been completed, land development is underway, and support structures being constructed. Soil test and first round of EIA complete, water sourcing in progress. Preparation for construction underway.



Kathmandu Children’s Hospital, concept design; Preparation for construction underway.

While delivering our phase 1 activities, we received demand from provincial partners to establish a satellite children’s hospital in Province 1. Accordingly, agreement has been reached with Redcross Damak, Jhapa, for a long-term lease of a near complete hospital building to establish a satellite hospital. Preparatory works are now underway to start the satellite hospital at Damak. [*Photo: Damak Building provided by Nepal Redcross Society*] The KIOCH team considered Damak’s project, originally planned as a phase II activity, as an opportunity to provide high quality Pediatric care, especially since the Ministry of Health and Population predicted that a third wave of the COVID-19 pandemic is likely to affect children in higher numbers for Nepal.

Damak is one of the cities of Jhapa District. The current population of Jhapa is 812,650 (census 2011) and the average population density is around 400 people per square km. Jhapa adjoins two other big districts of Nepal, namely Morang and Ilam. It also serves as the gateway for Pachthar and Taplejung, two northern districts of province One. The total catchment population for the Damak Children’s Hospital is around 2 million population.



The following **functions and facilities** will be established in Damak, Jhapa

Emergency beds	6
NICU	4
PICU	7
IPD General beds 26 + Cabin beds 7	33
Operating Room	1
OPD clinics	5
Laboratory: (hematology, biochemistry, microbiology, parasitology)	
Radiology: X-ray, ultrasound, Echocardiography, Doppler study	
Service Unit: Oxygen manifold, vacuum, Water treatment plant, Laundry, HVAC	
Total Beds:	50

\*Pediatric emergencies, neonatal ICU, pediatric ICU, all general pediatric care and selected subspecialty pediatric care will be provided by this hospital.

**Currently available building and functioning units:**



*existing building*



*outpatient*



*One of the wards*



*additional wards*

**The existing building is built as per the building code of Nepal. But this needs finishing work and internal partitioning in some wards. The blood bank is functioning well and laboratory equipment is already available now. But we need to add equipment for operating room, PICU, NICU and emergency room (list of equipment attached in annex 1). We are trying to create a team of competent and committed pediatricians, general doctors and their health care workers and thereby ensure quality care for children of Province 1.**

This proposal is to request your esteemed institution to support this project under CSR activities; We are seeking the support under the various scopes of work such as renovation and finishing works of hospital

sites, support in procuring the equipment, hospital supplies and medicines or patient support among others. The summary of budget for the start up is as follows:

Budget summary:

SN	Budget item	Approx. cost, NPR
1	Repair and renovation of building	20000000.00
2	Medical Equipment	20000000.00
3	Medicines and medical, surgical supplies	22000000.00
4	Hospital and office furniture	8000000.00
5	Food for patients, for a year	5000000.00
6	Physician and staff salary	25000000.00
7	Total	95000000.00

**Summary:** with an almost 12 million child population, there is an urgent need for concentrated efforts in making high-quality child healthcare available, accessible, and affordable in Nepal. KIOCH aims to be the leading institution for delivery of healthcare for children in Nepal and set an example of child centered care. KIOCH puts forward a new approach of coordinated care to maximize child health outcomes and quality of life. This project is an investment in the future health of our country, the children of Nepal.

**Contact:** Kathmandu Institute of Child Health (KIOCH) [www.kioch.org.np](http://www.kioch.org.np)

Dipendra Khadka, [dipendra@kioch.org.np](mailto:dipendra@kioch.org.np)

Mandar Shikhar Banerjee, [mandarshikhar@kioch.org.np](mailto:mandarshikhar@kioch.org.np)

**Annex 1. Equipment List (needed)**

S.N.	Name of equipment	Qty
1	Patient Vital signs monitor ( 5 parameter )	15
2	Infusion Pump	20
3	Syringe Pump	30
4	Pulse Oxymeter (table Top)(Portable)	5
5	Baby Incubator	5
6	Transport Incubator	1
7	Baby Warmer	5
8	Ventilator ( Neonatal / Pediatric )	5
9	Crash cart for emergency medicine	3
10	Oxygen Head Box/Hood ( Large/ medium & Small)	10
11	Photo therapy ( LED), Double surface	3
12	Refrigerator for medicine	2
13	Bubble CPAP	6
14	Low power Suction machine	1
15	Suction machine portable	3
16	Blood warmer	3
17	Digital weighing machine (With bassinet )	10
18	Transcutaneous Bilirubin meter	1
19	Glucometer	5
20	Ultrasonic Nebulizer	6
21	ECG machine	2
22	Defibrillator	2
23	Blood gas analyzer (ABG)	1
24	Ultrasound machine, portable (USG)	1
25	Bipap machine	2
28	Infantometer	6

29	Stadiometer	4
30	Digital Thermometer	200
32	Stethoscope	20
33	Feeding tray	25
34	Portable digital x-ray machine	1
35	Portable spot light	2
41	Autoclaving drums	10
42	X – ray view box	8
44	Autoclave	1
45	Large Autoclave for Waste Disposal	1
47	Anesthesia Machine, set	1
48	X Ray Machine Fixed	1

## Annex 2. Current Board of Directors

Bhagawan Koirala, Chairman of the Board: Professor, Cardiac surgeon, manager and social worker

Deepak Raj Sapkota: Child Rights Researcher and Social worker

Bhuwan Dahal: Banker, Social worker

Jyotindra Sharma: Pediatric cardiac surgeon, Manager

Bhawani Rana: Enterpreuner

Govinda Adhikary: Child Rights Advocate, Social worker, journalist