

Lab Details - India-Sweden Healthcare Innovation Centre			
S.No	Lab Name	Department	Description
1	Molecular Biology	Central Laboratory	Determination of type of cells, amplification of genetic material, mutation detection, SNP, RFLP, Hemoglobinopathies, Thalassemia (Homozygous/ Heterozygous/ Normal)
2	Cytogenetics	Anatomy	Karyotyping (Chromosome number variation detection)
3	Genetic Laboratory (NIDAN Kendra)	Pediatrics	Thalassamia associated gene mutation, deletion, NIPT for T13, T18 and T21
4	Biochemistry	Biochemistry	Lipid profile, Minerals and heavy metal estimation in blood and serum, High molecular weight protein quantification
5	Pathology	Pathology	Drug quality estimation, Blood clotting factor detection, Complete blood profiling, Detection of thalassemia

6	Microbiology	Microbiology (Viral Research and Diagnostic Laboratory- VRDL)	Rubella, <i>H. influenza</i> detection, Mycobacterium and Mycoplasma detection
7	Clinical Biochemistry	Biochemistry	Serum Hormones (TSH, T4, T3, FT3, FT4, Prolactin, Cortisol, LH, FSH, Testosterone, Insulin, PTH, CA-125, CA-19.9, Fpsa, PSA total, CK-NAC, CK-MB), Vitamin (D, B -12), Minerals/ Electrolytes – Ca, P, Na, Cl, Mg, Fe, Protein – Total protein, Albumin, ferritin, folic acid, Bilirubin, C-peptide. Heavy metals – Pb, Cd, Hg Lipid profile – Cholesterol, Triglyceride, HDL, LDL, VLDL Antibody – dsDNA, Enzyme – Amylase, Alkaline Phosphatase, SGOT, SGPT, Lipase, Calcium arsenazol III.
8	Pharmacology	Pharmacology	Drug quality estimation

9	Community Medicine & School of Public Health	Community medicine	Control of <i>Plasmodium falciparum</i> , <i>Plasmodium vivax</i> , <i>Plasmodium malariae</i> , Total dissolved solid estimation in water
10	Center for HTA	Pediatrics	
11	Physiology	Physiology	Sleep disorder, Study of mouse model in respect of behaviour, congenitive and therapeutic aspect, Sprituality and Emotional quantification
12	Anatomy	Anatomy	The examination of sampled whole tissues under the microscope.
13	Forensic Medicine	Forensic Medicine	Dissection to determine the cause, mode, and manner of death or to evaluate any disease or injury. Measurement of angles, especially one used to measure the angles between the faces of crystals, Measure the human lower jawbone, Measurement of total facial height , measure the maximum length of the bones, Measuring human skulls
14	Medicine & Rehabilitation	PMR	Electrophysiological monitoring method to record electrical activity of the brain, Improve

			muscle strenthing
15	Radiology	Radiology	Management of cancer, Form pictures of the anatomy and the physiological processes of the body, To scan the internal organs of the body - woman's abdomen and pelvic cavity, the reproductive system and the fetus of a pregnant woman creating a picture (sonogram) of the baby and placenta, performing all general fluoroscopic exams and radiographic examinations on a single table, To clearly visualize blood vessels in a bony or dense soft tissue environment

16	Blood Bank	Transfusion Medicine	For blood storage, Blood group testing, Promote healing when injected, Blood collection, HIV, HBsAg and HCV testing with ELISA, Testing of the hemostasis system
17	Nuclear Medicine	Nuclear Medicine	Determination of joint or bone pain, fracture and arthritis assessment, blood flow to the heart, and blood flow to the lungs, to detect the early onset of disease , Examining the thyroid gland,

18	<i>Neurobiology Lab,</i>		
19	<i>Immunology Lab</i>		
20	<i>Cancer Biology Lab</i>		
21	<i>Computational Biology Lab</i>		
22	<i>Drug Design and Discovery Lab,</i>		
23	<i>Biochemistry Lab,</i>		
24	<i>Environmental Biotechnology Lab,</i>		
25	<i>Microbiology Lab,</i>		
26	<i>Chemical Biology Lab,</i>		
27	<i>Sensor and Fabrication Lab,</i>		
28	<i>Robotics Lab,</i>		

29	<i>3D Bio-printing Lab,</i>		
30	<i>Bio-imaging Lab,</i>		
31	<i>Electrical Engineering lab,</i>		
32	<i>Computer Engineering Lab,</i>		
33	<i>Mechanical Engineering Lab,</i>		
34	<i>Chemical Engineering Lab,</i>		