GREEN CAMPUS AUDIT

APRIL-2023

Submitted To: Children'S University

Located at: Subhash Chandra Bose Shixan Sankul, Chh-5, Children's University, Sector 20, Gandhinagar, Gujarat 382021

CHILDREN'S UNIVERSITY

Submitted By:

Excel Enviro Tech

(NABL & NABET Accredited)

TF-2, Sun House, Near Old High Court,

Off Ashram Road, Ahmedabad – 380 009;

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www.excelenviro.com;
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excel enviro tech

CERTIFICATE

This is to certify that M/s. **Children's University** located at : Subhash Chandra Bose Shixan Sankul, Chh-5, Children's University, Sector 20, Gandhinagar, Gujarat 382021, has successfully completed Green Audit as per the Indian Green Building Corporation (IGBC) Green campus rating criteria on 25th April 2023.

Company Seal

Authorized Signatory

Excel Enviro Tech

INTRODUCTION OF CHILDREN'S UNIVERSITY

About Us:

- The children of today have to be prepared to become builders of the future, - the future which would be marked by replacement of competitive individualism by the synthesis of individual liberty, collective egalitarianism and universal and spiritual fraternity;
- The future will be liberated from disabling scepticism and from comforting arrestation of quest of knowledge, and progress will be accelerated by ardent aspirations to realise higher spiritual truths and their manifestation in physical life;
- The new world of the future will cultivate material life so as to make it prosperous and rich and it will replace poverty wherever it exists by elimination of drudgery, exploitation and slavery and encourage nobility, dignity and continuous empowerment.

The children's university will lead the children of today to build a new world of friendliness, mutuality and harmony that transcends all barriers of narrowness and blind conflicts resulting from exclusivism and burden of the past that strives to linger against the pressure of the future of uplifting light and prosperity.

Vision

The Vision of Children's University is three-dimensional.

- To develop Bharatiya stream of knowledge and lifestyle by achieving *Panchakoshatmak* (five-layered) development of children.
- To prepare children for the realization of higher spiritual truths.
- To augment knowledge capita by preparing academic scholars for substantial researches to map Indian Childhood through academic modalities.

Objectives

- To re-create the teaching pedagogical structure by integrating the guidance of globally acclaimed academicians.
- To create human beings inspired by global brotherhood and patriotism.
- To inculcate ethical and cultural values among children.
- To establish Bharat as an academic power of the world by integrating the knowledge of antiquity and modernity.
- To prepare a child for the achievement of global citizenship.

The Vision of Children's University is three-dimensional.

1. To develop Bharatiya stream of knowledge and lifestyle by achieving five-layered development of children.
2. To make children realize the higher spiritual truths.
3. To augment knowledge capita by preparing children for substantial along with building and creating their sublime character and self-pride**.**

Objective:

- **The objects of the University shall be as follows: -**
- (1) to study and undertake research in the works of pioneering educationists of Gujarat, India as also of other parts of the world, who have underlined the need for child-centred holistic education so as to derive guidance from the same;
- (2) to promote the fundamental duties laid" down in article 51A of the Constitution of India;
- (3) to foster in the University highest purposes of education of the body, life, and mind as also of the human spirit in its integrity;
- (4) to promote synthesis of scientific realism and artistic creativity;
- (5) to recover the lights from lessons of ancient wisdom in the context of modern developments; Establishment and Incorporation of University. Headquarters Of University. Objects of University. PART-IV] GUJARAT GOVERNMENT GAZETTE, EX., 31-7-2009 16-4
- (6) to establish facilities, programmes and activities of research, education, training, and extension services that promote all levels of child's development, including at the primary and secondary levels of education;
- (7) to introduce and nurture innovations in the education system so as to reflect India's spiritual knowledge, robust intellectuality and inexhaustible creativity;
- (8) to study and derive lessons from the ongoing experiments of education that are taking place in Gujarat as also elsewhere and to foster all the valuable innovative work and promote the same for larger expansion and utilization.

EXCEL ENVIROTEC EXCEL ENVIROTECH

Excel Enviro Tech (EET) is a progressive organization specialized from year 2002. EET is in the field of environmental consultancy for environment clearance from MoEF & SEAC, Consent to Establish (NOC) and Consent to Operate (CCA) from GPCB, Effluent Treatment Plant Design, Operation and Maintenance of Treatment Plant. EET has obtained ISO:45001:2018 certification for Health & Safety system.

EXCEL ENVIROTECH (EET) provides specialty-consulting services in Environment Management, Risk Assessment and Health & Safety. The company has a team of professional engineers and scientists, with extensive accumulated experience in all aspects of environmental engineering.

EET has installed full-fledge testing laboratory, for monitoring and analysis in the areas of ambient air, water, Noise, Fuel, soil, microbiological parameters and hazardous waste. For establishing the confidence in the work done, the laboratory has got the **PRESTIGIOUS RECOGNIZATION FROM MOEFCC as Gazetted Laboratory;** and Accreditation from **NABL for more than 400 parameters**.

QUALITY COUNCIL OF INDIA
Creating an Ecosystem for Quality

National Accreditation Board for Education and Training

Certificate of Accreditation

Excel Enviro Tech, Ahmedabad

TF-2, FF-1 & FF-2, Sun House, Old High Court Lane, Nr. Income tax, Off Ashram Road, Ahmedabad

*The organization is accredited as **Category-A** under the QCI-NABET Scheme for Accreditation of EIA Consultant Organization, Version 3: for preparing EIA-EMP reports in the following Sectors -*

S. No	Sector Description	Sector (as per) NABET	Sector (as per) MoEFCC	Cat.
1	Mining of minerals including Open cast and underground	1	1 (a) (i)	A
2	Thermal power plants	4	1 (d)	B
3	Mineral beneficiation	7	2 (b)	A
4	Metallurgical industries	8	3(a)	B
5	Cement plants	9	3 (b)	B
6	Coke oven plants	11	4 (b)	A
7	Pesticides industry and pesticide specific intermediates (excluding formulations)	17	5 (b)	A
8	Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)	21	5 (f)	A
9	Common hazardous waste treatment, storage and disposal facilities	32	7 (d)	B
10	Common Effluent Treatment Plants (CETPs)	36	7 (h)	B
11	Building and Construction Projects	38	8 (a)	B
12	Townships and Area development Projects	39	8 (b)	B

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in RAAC minutes dated Jan 07, 2022 posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/22/2297 dated April 04, 2022. The accreditation needs to be renewed before the expiry date by Excel Enviro Tech, Ahmedabad following due process of assessment.

NABET

Sr. Director, NABET
Dated: April 04, 2022

Certificate No.
NABET/EIA/2124/RA 0234_Rev 01

Valid up to
June 27, 2024

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to the QCI-NABET website.

National Accreditation Board for Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

EXCEL ENVIRO TECH

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

TF-2, FF-1 & FF-2, SUN HOUSE, OLD HIGH COURT LANE, OFF ASHRAM ROAD, AHMEDABAD, GUJARAT, INDIA

in the field of

TESTING

Certificate Number: TC-5892

Issue Date: 18/11/2022 **Valid Until:** 17/11/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : Excel Enviro Tech

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

GREEN CAMPUS RATING CRITERIA

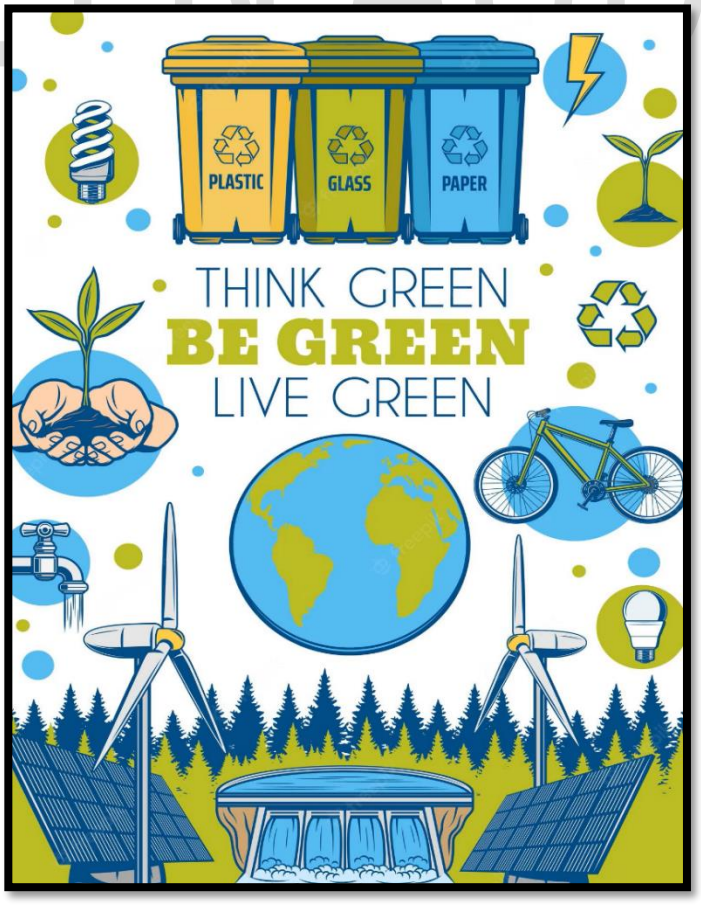
Sr. No	Criteria	Compliance
1	Design and construct high-performance buildings within the campus to minimize negative environmental impacts resulting from development.	It is an already existing campus and it is built to minimize and reduce environmental impacts.
2	Control soil erosion and sedimentation, thereby reducing negative impacts to the site and surroundings.	It is observed that organisation is using a sprinkler system to minimize soil erosion and minimize water consumption simultaneously.
3	Encourage retaining the site features to minimize site damage and associated negative environmental impacts.	Less than 25% of the land is utilised for the building purpose and around 75% of the land is retained as per the previous site features. The infrastructure is planned in such a way that no existing trees were cut down.
4	Minimize disturbances or restore green cover/vegetation in the site, to promote habitat and biodiversity.	Within the institution, 135+ tall trees and 1000+ plants and shrubs have been planted which cover more than 50% of the green cover area promoting habitat and biodiversity. The institute has also developed a Botanical garden that has Ayurvedic herbs and plants.
5	Minimize heat island effect to reduce the negative impact on micro-climate.	Due to green cover in the institute and surrounding area, the temperature of the campus is less than the ambient temperature due to which the heat island is minimized.
6	Reduce light pollution to increase night sky access and enhance the nocturnal environment.	During the night only street lights work which increases night sky access and enhances the nocturnal environment.
7	Encourage a safe and comfortable walking experience by providing well designed interconnected pedestrian network.	The institution has provided wide and open walking spaces for proper movement of the pedestrian network.
8	Reduce automobile dependency for short-distance commuting fuel consumption & vehicular emissions, thereby promoting physical activity and health.	Near the Main Gate parking facility for the vehicles has been provided and throughout the other campus, no vehicles are allowed which leads to the promotion of physical activity & health.
9	Encourage the use of public transport, to reduce negative impacts caused by automobile use.	Awareness & training program, display of posters for the same has been provided.

10	Enhance Groundwater table and reduce municipal water demand through effective rainwater management.	Institute has a very good amount of space available with them so if they plan to do rainwater recharging, they can enhance the ground water level.
11	Design landscape to ensure minimum water consumption.	The landscape is flat and there isn't any such thing.
12	Reduce water demand for irrigation through water-efficient management systems and techniques.	Institute has used sprinklers for water spray for water-efficient management system. Drip Irrigation method should be adopted for plants and herbs.
13	Treat wastewater generated on-site, to avoid polluting the receiving streams by safe disposal. Use treated wastewater, thereby reducing dependence on potable water.	Institute shall install Sewage Treatment Plant and reuse water for flushing and gardening purpose.
14	Enhance water use efficiency, thereby minimizing the use of potable water for construction activities.	Minimum water has been used for construction activities.
15	Encourage sub-metering to improve water performance and thereby save potable water.	The average water consumption currently is 15 KLD. It is suggested that the institute shall install a flow meter and maintain a logbook to keep a track of water consumption and once the data is available water minimization techniques can be applied.
16	Enhance energy efficiency, thereby reducing the environmental impacts resulting from energy use.	The cascading effect is used so that mostly during the daytime natural light is used which reduced electricity consumption. Motion Sensor based lights should be installed so that in absence of people it shuts down automatically resulting in energy efficiency and power savings.
17	Encourage the use of on-site renewable technologies, to minimize environmental impacts associated with the use of fossil fuel energy.	Institute will install a solar facility in new building which will reduce the environmental impact as it will be a sustainable source of energy.
18	Encourage the use of off-site renewable technologies, to minimize the environmental impacts associated with fossil fuel energy use.	The institute is under planning to install solar panels for off-site renewable technologies and should install solar street lights to minimize the environmental impacts associated with fossil fuel.
19	Encourage sub-metering to improve energy performance, and thereby save energy.	The institute is targeting sub-metering for the below-mentioned points.

20	Facilitate segregation of waste at source to encourage reuse or recycling of materials, thereby avoiding waste being sent to landfills.	The institute is currently already segregating waste and the dry waste is sent to local vendors for recycling.
21	Ensure effective waste management, avoid organic waste being sent to landfills, and improve sanitation & health.	No waste generated from the institute goes to landfills.
22	Facilitate segregation of construction and demolition waste at source, to encourage reuse or recycling of materials thereby avoiding waste being sent to landfills.	Construction activity is going on within the premises of the institute and when it is carried out, they will manage the construction and demolition waste properly as per rule construction and demolition rules-2016.
23	Encourage the use of building materials available locally, thereby, minimizing the associated environmental impacts.	Building materials are used inhouse and minimise the environmental impacts.
24	Minimize exposure of non-smokers to the adverse health impacts arising due to passive smoking.	Within the premises of the institute, the smoking activity and consumption of tobacco is banned.
25	Provide access to basic amenities, to encourage walking and thereby improve quality of life.	The Institute has provided a canteen, Ayurvedic Clinic etc. in the institution area.
26	Provide health & well-being facilities to enhance the physical, emotional, and spiritual well-being of campus occupants.	The institute has provided Ayurvedic Clinic, library etc. in the campus.
27	Ensure that the campus design caters to differently-abled and senior citizens.	The institute has been provided an inclusive campus for differently-abled people.
28	Promote the welfare of the construction workforce by providing safe and healthy work conditions.	The construction activity is already completed. If will carry further, welfare facility will be provided.
29	Promote green education by involving campus occupants, local communities & NGOs to increase awareness levels and encourage implementation of eco-friendly practices.	The institute has started taking initiatives by initially promoting green education and practices to the staff, teachers, and students and they shall further proceed to create awareness among the local communities & NGOs.
30	Provide campus occupants and facility team with descriptive guidelines that educate and help them implement and maintain green design and construction features.	The training for the same has been provided.

CONCLUSIVE REMARKS

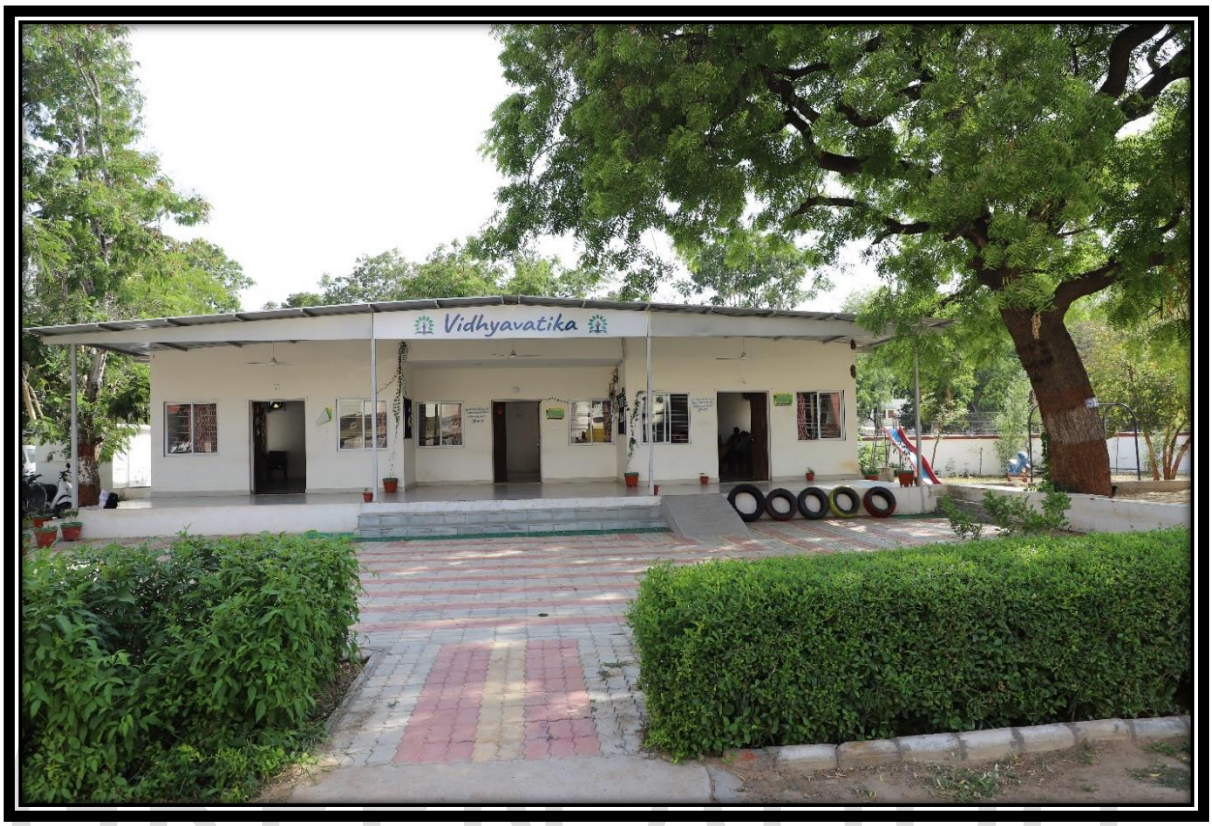
1. Within the institution, 135+ tall trees and 1000+ plants and shrubs have been planted which cover more than 50% of the green cover area promoting habitat and biodiversity. The institute has also developed a Botanical Garden that has Ayurvedic herbs and plants.
2. Effective Communication through displaying of environmental related posters such as save water, energy saving etc.in the campus.
3. Sewage Treatment plant shall be installed and the treated water shall be used for toilet flushing as well as gardening which will overall reduce the water consumption.
4. Metering of the water consumption shall be done and the record for the same shall be maintained so that proper measures for water conservation shall be taken.
5. Institute will install a solar facility in new building which will reduce the environmental impact as it will be a sustainable source of energy.
6. Proper Rain Water Harvesting System shall be installed at its place so that good quantum of rain water harvesting can be undertaken.
7. Ground water permission shall be obtained from government authority to extract ground water from borewell as per CGWA guidelines.



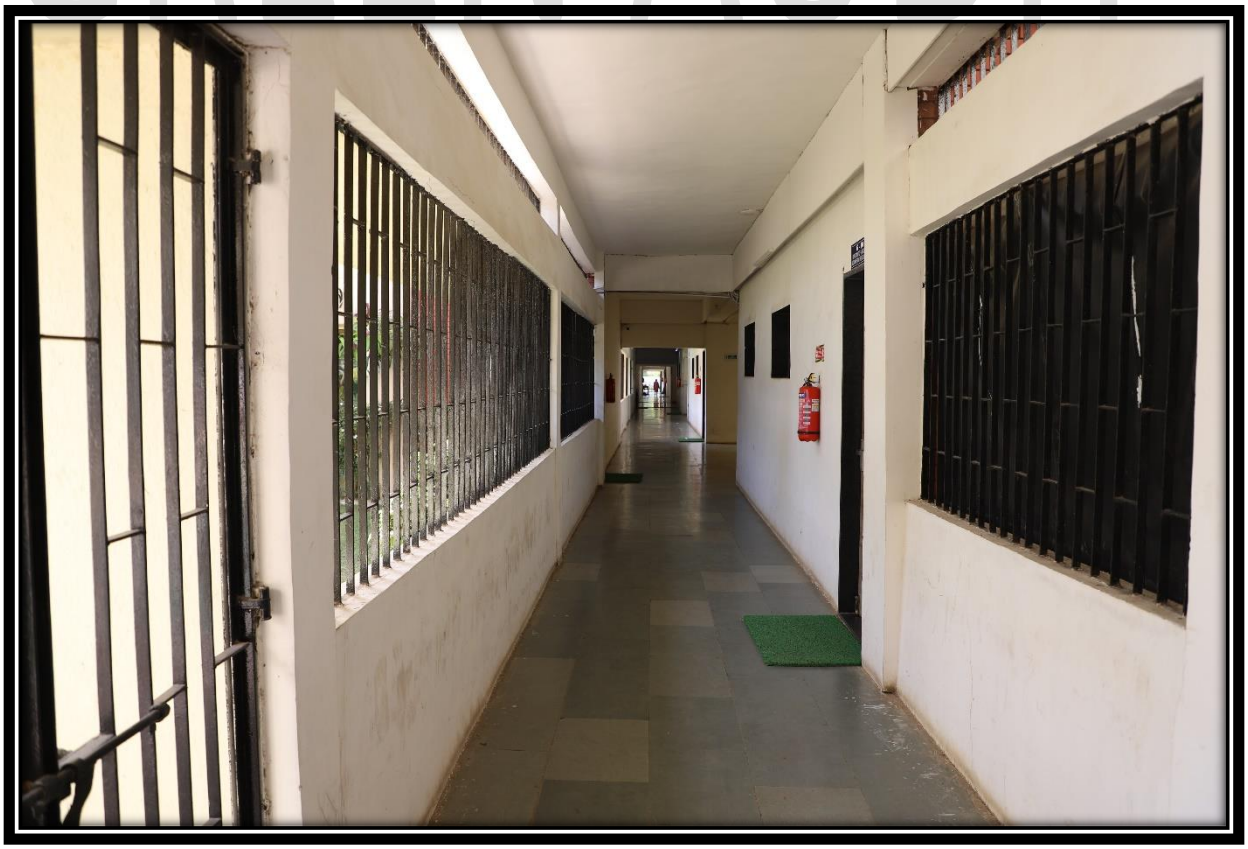
ANNEXURE SECTIONS

Annexure -1 Photographs of Green Belt Area

Annexure -2 Photographs of Campus Facility



Annexure -3 Inside Building classrooms and facility Photos



Annexure-4 Institution Approval

Extra No. 16 REGISTERED No. G/GNR/2

The Gujarat Government Gazette

EXTRAORDINARY
PUBLISHED BY AUTHORITY

Vol. LJ FRIDAY, JULY 31, 2009/SRAVANA 9, 1931

Separate paging is given to this Part in order that it may be filed as a Separate Compilation.

PART IV

Acts of Gujarat Legislature and Ordinances promulgated and Regulations made by the Governor.

The following Act of the Gujarat Legislature, having been assented to by the Governor on the 29th July, 2009, is hereby published for general information.

H. D. VYAS,
Secretary to the Government of Gujarat,
Legislative and Parliamentary Affairs Department.

GUJARAT ACT NO. 15 OF 2009.

(First published, after having received the assent of the Governor, in the *"Gujarat Government Gazette,"* on the 31st July, 2009).

AN ACT

to establish the Children's University for promoting children's education in the light of contemporary national and international needs of building up a new world that will harmonise the ideals of liberty, equality and fraternity, and to establish, conduct and promote progressive research and educational centres related to children's education as also to establish, conduct and promote, training and extension services mat will foster high level care, education and health of the children of today and tomorrow and for the matters connected therewith or incidental thereto.

It is hereby enacted in the Sixtieth Year of the Republic of India as follows:-

CHAPTER I

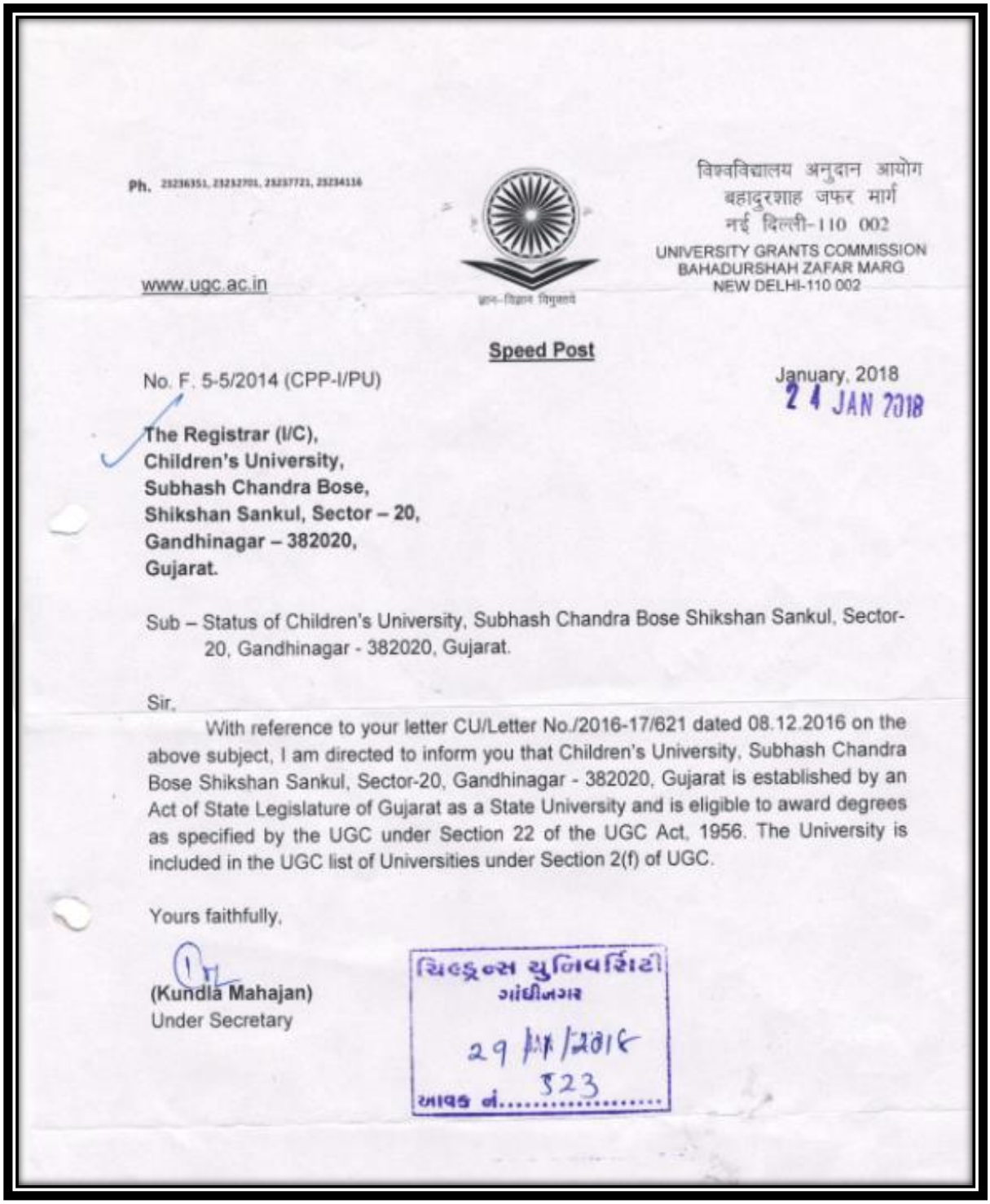
PRELIMINARY

Short title, extend and Commencement.

1. (1) This Act may be called the Children's University Act, 2009.

(2) It extends to the whole of the State of Gujarat.

(3) This section shall come into force at once and the remaining provisions shall come into force on such date as the State Government may, by notification in the *Official Gazette*, appoint.



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बहादुरशाह जफर मार्ग
नई दिल्ली-110 002

UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110 002

Speed Post

No. F. 5-5/2014 (CPP-I/PU)

January, 2018

24 JAN 2018

The Registrar (I/C),
Children's University,
Subhash Chandra Bose,
Shikshan Sankul, Sector – 20,
Gandhinagar – 382020,
Gujarat.

Sub – Status of Children's University, Subhash Chandra Bose Shikshan Sankul, Sector-20, Gandhinagar - 382020, Gujarat.

Sir,

With reference to your letter CU/Letter No./2016-17/621 dated 08.12.2016 on the above subject, I am directed to inform you that Children's University, Subhash Chandra Bose Shikshan Sankul, Sector-20, Gandhinagar - 382020, Gujarat is established by an Act of State Legislature of Gujarat as a State University and is eligible to award degrees as specified by the UGC under Section 22 of the UGC Act, 1956. The University is included in the UGC list of Universities under Section 2(f) of UGC.

Yours faithfully,

(Kundla Mahajan)
Under Secretary

ચિલ્ડ્રન્સ યુનિવર્સિટી
ગાંધીનગર
29/01/2018
આવક નં. 523

Annexure – 5 Details of Fire Extinguishers

Sr. No.	Type of Fire Extinguisher	Capacity	Location
1	ABC-Dry Chemical Powder	6 KG	Outside Meeting Room
2	ABC-Dry Chemical Powder	6 KG	Outside Ph.D. Room
3	ABC-Dry Chemical Powder	6 KG	Outside of Languages Department
4	ABC-Dry Chemical Powder	6 KG	Outside of Humanities Department
5	ABC-Dry Chemical Powder	6 KG	Beside Main Entrance Gate
6	ABC-Dry Chemical Powder	6 KG	Outside of Shishuparamarshan Room
7	ABC-Dry Chemical Powder	6 KG	Outside of Tapovan Kendra Room
8	ABC-Dry Chemical Powder	6 KG	Outside of G-8 Room
9	ABC-Dry Chemical Powder	6 KG	Outside of G-7 Room
10	ABC-Dry Chemical Powder	6 KG	On Ladder to the Library
11	ABC-Dry Chemical Powder	6 KG	Outside of F-4 Room
12	ABC-Dry Chemical Powder	6 KG	Outside of F-3 Room
13	ABC-Dry Chemical Powder	6 KG	Outside of F-1 Room
14	ABC-Dry Chemical Powder	6 KG	Outside of F-12 Child Library Room
15	ABC-Dry Chemical Powder	6 KG	Outside of F-11 Room Gujarati Classroom
16	ABC-Dry Chemical Powder	6 KG	Outside of F-10 Room Department of Innovation Room
17	ABC-Dry Chemical Powder	6 KG	Outside of F-8 Room Education Classroom
18	ABC-Dry Chemical Powder	6 KG	Outside of F-9 Room Education Classroom
19	ABC-Dry Chemical Powder	6 KG	Outside of F-7 Room Indic Studies Classroom
20	ABC-Dry Chemical Powder	6 KG	Outside of F-5 Main Library Room
21	ABC-Dry Chemical Powder	6 KG	Server Room
22	ABC-Dry Chemical Powder	6 KG	Server Room
23	ABC-Dry Chemical Powder	6 KG	Outside Library Room
24	Water Type Fire Extinguisher	09 Ltr	Reception Area
25	Water Type Fire Extinguisher	09 Ltr	Torrent Power Cabin

Annexure – 6 Details of Smoke detectors

Sr. No.	No. of Smoke Detectors	Location
1	4	G-1 Room
2	4	G-2 Room
3	3	G-3 Room
4	1	G-4 Room
5	3	G-5 Room
6	1	G-6 Room
7	2	G-7 Room
8	1	G-8 Room
9	1	G-9 Room
10	2	G-10 Room
11	1	G-11 Room
12	1	G-12 Room
13	2	G-13 Room
14	6	G-14 Room
15	1	Pentry Room
16	1	F-1 Room
17	1	F-2 Room
18	1	F-3 Room
19	4	F-4 Room
20	2	F-5 Room
21	1	F-6 Room
22	1	F-7 Room
23	1	F-8 Room
24	1	F-9 Room
25	6	F-10 Room
26	1	F-11 Room
27	1	F-12 Room
28	1	F-13 Room
29	2	F-14 Room
Total 57 Nos. Smoke Detectors installed		

Annexure – 7 Existing Layout

Annexure – 8 Ambient Air Monitoring Analysis Report

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Off. Ashram Road, Ahmedabad - 380009.

TEST REPORT

Customer's Name and Address
M/s. Children University. Subhash Chandra Bose Shixan Sankul, Chh-5, Children's University, Sector 20, Gandhinagar, Gujarat 382021

FORMAT NO.	F/LID/54
REPORT DATE	25/04/2023
REPORT NO.	EET202304428

Description of sample	Ambient Air Quality	Lab ID Code	AQ/04/428
Date of sampling	18/04/2023	Sampling time	10:30 to 18:30
		Sampling method	Standard practice
Sample collected by	Field Chemist	Date of starting of test	19/04/2023
Packing/seal	Satisfactory	Date of completion of test	19/04/2023

RESULT TABLE

Sampling location`	Near Main Gate	
Meteorological Data / Environmental Conditions		
Wind direction	NE→SW	
Average wind speed (m/s)	2.1	
Temperature	Max: 40.8°C	Min: 27.9°C
Humidity, %	Max: 45	Min: 25

Sr	Parameter	Unit	Test method	Result	Prescribed Norms
1	Particulate Matter-2.5, $PM_{2.5}$	$\mu g/m^3$	IS 5182 (Part – 24) - 2019	32.17	60
2	Particulate Matter-10, PM_{10}	$\mu g/m^3$	IS 5182 (Part – 23) - 2006	69.14	100
3	Sulphur Dioxide, SO_2	$\mu g/m^3$	IS 5182 (Part – 2) – 2001	BDL (DL:5.0)	80
4	Nitrogen Dioxide, NO_2	$\mu g/m^3$	IS 5182 (Part – 6) – 1975	8.52	80

Analyzed By **Authorized Signatory**

Source of Prescribed Norms: Field remark:

----------End of The Test Report---------- Page 1 of 1

Annexure – 9 Noise Monitoring Report

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Off. Ashram Road, Ahmedabad - 380009.

TEST REPORT

Customer's Name and Address
M/s. Children University. Subhash Chandra Bose Shixan Sankul, Chh-5, Children's University, Sector 20, Gandhinagar, Gujarat 382021

FORMAT NO.	F/LID/55
REPORT DATE	25/04/2023
REPORT NO.	EET202304429

Description of sample	Noise level Monitoring	Lab ID Code	NM/04/429
Date of sampling	18/04/2023	Sampling method	IS 9989 – 1981 RA 2001
Sample collected by	Field Chemist		

RESULT TABLE

Sr	SAMPLING LOCATION	Unit	Result	
			Day Time (6 AM – 10 PM)	Night Time (10 PM – 6 AM)
1.	Near Main Gate	dB (A)	52.9	--
2.	Near tapovan	dB (A)	45.5	--
3.	Toy Lab (F-2)	dB (A)	43.5	--
4.	Main Library (F-5)	dB (A)	58.2	--
5.	Near Computer Lab	dB (A)	60.1	--
6.	Open Hall	dB (A)	42.3	--
7.	Near Canteen	dB (A)	40.3	--
8.	Near Parking	dB (A)	47.3	--
9.	Vidhya Vatika	dB (A)	40.1	--
10.	Near reception	dB (A)	42.2	--

Note: Day Time Norms : 75 dB (A)
Night Time Norms : 70 dB (A)

Analyzed By **Authorized Signatory**

Source of Prescribed Norms:	Field remark:

----------End of The Test Report---------- Page 1 of 1

Annexure – 10 Drinking water Analysis report

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TF-2, Sun House, Nr, Old High Court,
Off. Ashram Road, Ahmedabad - 380009.

TEST REPORT

Customer's Name and Address
M/s. Children University.
Subhash Chandra Bose Shixan Sankul, Chh-5, Children's University, Sector 20, Gandhinagar, Gujarat 382021

REPORT NO.	F/LID/03
REPORT DATE	25/04/2023
REPORT NO.	EET/202304427

Description of sample	Water Sample	Lab ID Code	DW/04/427
Sample Location	Drinking Water	Sampling time	14:20 to 14:30
Date of sampling	18/04/2023	Sampling method	Grab
Sample collected by	Field Chemist	Packing/seal	Satisfactory
Quantity and no. of sample/s	2 liters in Plastic Carboys	Date of starting of test	19/04/2023
		Date of completion of test	24/04/2023

Result table

Sr. No.	Parameters	Unit	Drinking water Standard As per IS 10500		Result Drinking Water	Method of Test
			Requirement (Acceptance Limit)	Permissible Limit In The Absence Of Alternate Source		
1.	pH	--	6.5-8.5	No Relaxation	7.14	IS 3025 (part-11) – 1983
2.	Colour in units	Hazen	Max 5	Max 15	Nil	IS 3025 (part-4) – 1983
3.	Odour	--	Agreeable	Agreeable	Agreeable	IS 3025 (part-5) – 1983
4.	Taste	mg/l	Agreeable	Agreeable	Agreeable	IS 3025 (part-7&8) – 1984
5.	Turbidity in NTU	NTU	Max 1.0	Max 5.0	Nil	IS 3025 (part-10) – 1984
6.	Total Dissolved Solids	mg/l	Max 500	Max 2000	180.4	IS 3025 (part-16) – 2002
7.	Total Hardness	mg/l	Max 200	Max 600	60.0	IS 3025 (part-21) – 1983
8.	Calcium as Ca	mg/l	Max 75	Max 200	14.11	IS 3025 (part-40) – 1991
9.	Magnesium as Mg	mg/l	Max 30	Max 100	3.25	IS 3025 (part-46) – 1994
10.	Chloride	mg/l	Max 250	Max 1000	40.52	IS 3025 (part-32) – 1988
11.	Fluoride	mg/l	Max 1.0	Max 1.5	Nil	IS 3025 (part-60) – 2008
12.	Total Alkalinity	mg/l	Max 200	Max 600	180.1	IS 3025 (part-23) – 1986
13.	Iron as Fe	mg/l	Max 0.3	No Relaxation	0.12	IS 3025 (part-53) – 2003
14.	Residual free chlorine	mg/l	Min 0.2	Max 1.0	Nil	IS 3025 (part-26) – 1986
15.	Copper as cu	mg/l	Max 0.05	Max 1.5	Absent	IS 3025 (part-42) – 1992
16.	Nitrates	mg/l	Max 45.0	No Relaxation	1.10	IS 3025 (part-34) – 1988
17.	Total ColiformBacteria	MPN/ 100 ml	Shall not be detectable in any 100 ml sample		Absent	IS:1622-1981 reaffirmed: 2003
18.	E. ColiformBacteria	MPN/ 100 ml	Shall not be detectable in any 100 ml sample		Absent	IS:1622-1981 reaffirmed: 2003

Analyzed By **Authorized Signatory**

Annexure – 11 Tips & Guidelines for Sustainable Environment

1. **Use energy-efficient light bulbs: Switch to LED bulbs, which are more energy-efficient and last longer than traditional incandescent bulbs.**
2. **Make sure to switch off the lights and fans before leaving the classroom. If your class has enough sunlight, you don't need to turn on the lights.**
3. **Conserve water: Try saving as much as water as you can. The less water you use, the less runoff and wastewater that eventually end up.**
4. **Use public transportation, walk, or bike: Reduce your carbon footprint by using public transportation, walking, or biking instead of driving alone.**
5. **Plant trees and flowers: Planting trees and flowers can help reduce carbon dioxide levels and improve air quality.**
6. **Participate in community clean-ups: Join community clean-up events to help keep your local environment clean and healthy.**
7. **Use eco-friendly products: Choose products that are made from sustainable materials and are eco-friendly.**
8. **Take public transport as much as possible. You can also walk or ride a bicycle if your school/college is nearby. If many people start doing this, there will be a reduction in air pollution and traffic congestion on roads.**
9. **Try minimizing usage of ACs.**
10. **Generating electricity with solar panels, however, produces no greenhouse gasses whatsoever and thus reduces air pollution.**
11. **Reduce the usage of your electrical appliances.**
12. **Educate. When you further your own education, you can help others understand the importance and value of our natural resources.**
13. **Plant a tree. Trees provide food and oxygen. They help save energy, clean the air, and help combat climate change.**
14. **Use double-sided printing & Reduce paper use & save trees.**

LIVE GREEN, LOVE GREEN, THINK GREEN.