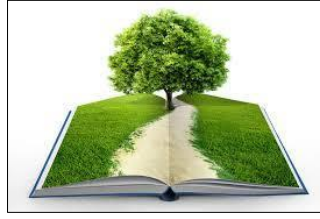


# GREEN AUDIT



FOR

## KAMLA NEHRU INSTITUTE OF PHYSICAL AND SOCIAL SCIENCES (KNIPSS)

Post Office – KNI, Sultanpur, U.P. 228118



Green Audit Date: 06<sup>th</sup> Sep 2022

Prepared By:



मातृ पृथ्व्यै नमः

**Accredited from QCI-NABET**

(As per the Guidelines of MoEF&CC, Govt. of India)

**ISO 9001:14001:45001 Certified Company**

**EARTH PROTECTION GROUP  
ENVIRONMENTAL CONSULTANT PVT. LTD.**

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**Month/Year- September/2022**

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## **PREFACE**

**Kamla Nehru Institute of Physical and Social Sciences** engaged our organization, **M/s Earth Protection Group Environmental Consultant Pvt. Ltd.** to carry out detailed Green Audit for their campus. We are submitting herewith the Green Audit Report.

Report prepared on the basis of site visit (physical), one to one interaction with the concerned departmental officials & physical verification of the concerned documents.

This audit report has been prepared on the basis of valuable guidelines laid down by the different organizations/statutory bodies and our experience & expertise in the field. Our team members have exercised all reasonable skills, care and diligence in preparation of this report. In spite of our sincere efforts, errors may creep in. Error, omission or discrepancy, if any, may please be noted and brought to our notice for necessary correction.






(Dr. Nelesh Agrawal)  
Managing Director

M/s Earth Protection Group Environmental Consultant Pvt. Ltd.

**GREEN AUDIT CONDUCTING TEAM**

The details of audit team comprising the members from M/s Earth Protection Group Environmental Consultant Pvt. Ltd. (EPGEC) as well as college representatives are as under:

<b>Name, Qualification &amp; Experience of team</b>	<b>Role &amp; Responsibility</b>	<b>Signature</b>
<p><b>Dr. Nelesh Agrawal</b>            Founder Director, EPGEC            Ph.D. in Environmental Science, P.G. Diploma in Industrial Pollution &amp; Management, PG Diploma in Health, Safety &amp; Environment            21 years' experience in Environment &amp; Industrial Safety consultancy.</p>	<p><b>Lead Auditor</b>            Responsibility Includes:</p> <ul style="list-style-type: none"> <li>• Selecting the audit team members, preparing the audit plan, audit checklist, planning scheduling and carrying out the field visit, briefing and guide the auditors to prepare the working document, reporting critical non-conformities resulting in imminent danger to the auditee, preparing audit report with the help of auditors, reporting the audit results objectively, clearly, conclusively.</li> <li>• Evaluation of possible impacts on Air, water environment, their mitigation and management measures, Observation &amp; implementation of corrective action to improve environmental conditions &amp; prepare the report.</li> <li>• Evaluation of possible impacts of Solid Hazardous Waste their mitigation and management measures, Observation &amp; implementation of corrective action to improve environmental conditions &amp; prepare the report</li> <li>• Check the Final Report</li> </ul>	
<p><b>Dr. Rajeev Kanaujia</b>            Founder Director, EPGEC            Ph.D. in Environmental Science, P.G. Diploma in Industrial Pollution &amp; Management, Post Diploma in Industrial Safety from RLI            21 years' experience in Environment &amp; Industrial Safety consultancy.</p>	<p><b>Auditor</b>            Responsibility Includes:</p> <ul style="list-style-type: none"> <li>• Responsibility in project as Auditor for noise &amp; vibration (NV)</li> <li>• Site visit for baseline monitoring and data collection. Evaluation of primary and secondary data</li> <li>• Ensuring compliance related to Noise &amp; Vibration.</li> <li>• Submission of Audit Finding &amp; Non-Conformities to Project Coordinator</li> </ul>	
<p><b>Mr. Mohd Asif</b>            Project Manager, EPGEC            M.Sc. (Env. Science) &amp; PG Diploma in Health, Safety &amp; Environment            13 years' experience in Environment &amp; Industrial Safety consultancy.</p>	<p><b>Auditor</b>            Responsibility Includes:</p> <ul style="list-style-type: none"> <li>• Site visit with Auditor</li> <li>• Reporting of Any observation/findings to the Auditor</li> <li>• Client Communication</li> <li>• Check the Reconciliation of Report</li> <li>• Finalize the Draft Report</li> </ul>	

<p><b>Prof./Dr. Prakash Chandra Tiwari</b></p> <p>Head (Deptt. of Environment Sciences)</p> <p>Kamla Nehru Institute of Physical and Social Sciences, Sultanpur, U.P.</p>	<p><b>Coordinator</b></p> <p>Inform relevant officials and staff about the objectives and scope of the audit; appoint officials to coordinate with auditor; provide all resources needed to auditor; provide access to the facilities and evidential material as requested by the auditors; cooperate with the auditors to facilitate achievements of audit objectives; of the audit results; Ensure implementation of corrective actions based on the audit report.</p>	
<p><b>Mr. Sushil Kumar Mishra</b></p> <p>Astt. Prof. (Deptt. of Environment Sciences) KNIPSS</p>	<p><b>Coordinator</b></p> <p>Kamla Nehru Institute of Physical and Social Sciences, Sultanpur, U.P.</p>	
<p><b>Dr. Sanjay Kumar</b></p> <p>Deputy Director (IQAC) KNIPSS</p>	<p><b>Coordinator</b></p> <p>Kamla Nehru Institute of Physical and Social Sciences, Sultanpur, U.P.</p>	

## 1.0 INTRODUCTION OF GREEN AUDIT

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of various establishments. It aims to analyse environmental practices within and outside of the concerned sites, which will have an impact on the eco-friendly ambience. Green audit can be a useful tool for an institute to determine how and where they are using the most energy or water or resources; the institute can then consider how to implement changes and make savings. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of green impact on campus. If self-enquiry is a natural and necessary outgrowth of a quality education, it could also be stated that institutional self-enquiry is a natural and necessary outgrowth of a quality educational institution. Thus, it is imperative that the institute evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, **the role of higher educational institutions in relation to environmental sustainability is more prevalent.** The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institute which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric carbon-di-oxide from the environment.

## 2.0 WHY GREEN AUDIT

- In present scenario, people are not caring nature. They are directly or indirectly damaging the environment causing problems like; global warming, ecological damage, air pollution, water pollution etc.
- Green Audit is requirement of NAAC (National Assessment and Accreditation Council) for the accreditation of KNIPSS, Sultanpur, U.P.
- The intention of organizing Green Audit is to upgrade the environmental condition in and around the institute.

## 3.0 GOALS OF GREEN AUDIT

- The objective to carry out Green Audit is to secure the environment and cut down the threats to ecology and human health.

- To avoid the interruptions in environment that are more difficult to handle in nearby future and their correction requires high cost.
- To suggest the best protocols to add for sustainable development.

#### **4.0 OBJECTIVES**

In recent time, the Green Audit of an institution has been becoming a paramount important for self-assessment of the institute which reflects the role of the college in mitigating the present environmental problems. The KNIPSS, Sultanpur has been putting efforts to keep our environment clean since its inception. But the auditing of this non-scholastic effort of the institute has not been documented.

Therefore, the purpose of the present green audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards. The main objectives of carrying out Green Audit are:

- To suggest measures to improve biodiversity within the institute campus.
- To monitor the energy consumption pattern of the institute.
- To assess the quantity of water usage within the institute campus.
- To suggest sustainable energy usage and water conservation practices.
- To find out various sources of organic and solid waste generation and mitigation possibilities.

#### **5.0 METHODOLOGY**

The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institute. The criteria, methods and recommendations used in the audit were based on the identified risks. The methodology includes: preparation and filling up of questionnaire, physical inspection of the campus, observation and review of the document, interviewing responsible persons and data analysis, measurements and recommendations. The methodology adopted for this audit was a three-step process comprising:

##### **5.1 Pre-Audit Stage**

- Plan the audit
- Plan the audit team
- Schedule the audit facility
- Acquire the background information
- Visit the site/campus



## 5.2 On-Site Stage

- Understand the scope of Audit
- Analyze the strengths and weakness of the internal controls
- Conduct the Audit
- Evaluate the observations of Audit Programs
- Prepare a report of the observations side by side

## 5.3 Post-Audit

- Produce a draft report of the data collected
- Produce a final report of the final observations and the interference with accuracy
- Distribute the report to the management
- Prepare an action to overcome the flaws
- Keep a watch on the action plan

## 6.0 ABOUT INSTITUTE

The growth of the Institute with leaps and bound in only four decades period provided the way to rise as a multi faculty Institution with Commerce, Arts, Science, Law and Education faculties at undergraduate level and by the end of decade the Institution had post graduate programs in 8 subjects representing the aforesaid faculties. In the advent of having a full-fledged faculty of Engineering and Technology in the year 1976, the needful initiatives were taken by the Trust and as a result of consistent efforts. It was established in 1980 as a fully financed institution by government of Uttar Pradesh which is presently being looked after by a separate management committee. As a result of this development the original name as Kamla Nehru Institute of Science and Technology has also been rechristened as Kamla Nehru Institute of Physical and Social Sciences. In the same continuity two more institutions i.e. Kamla Nehru Krishi Vigyan Kendra in 1976 and Kamla Nehru Institute of Child Education in 1984 were established. With a dream to maintain academic excellence at par with any best institution of the national and international repute in the country, he created a very congenial environment and the infrastructure which is essential for the purpose. In the year 2004 a full-fledged campus on 75 acre land which falls in boundary of village Faridipur at a distance of four kilometre from the main campus, has been established under the dynamic leadership of Shri Vinod Singh, the son and successor of the founder Late Sri. K. N. Singh to cope up the demand from a large number of students in professional and technical subjects. The new campus has got six faculties viz. a college of Pharmacy, Management Studies, Education, Law, Engineering and Nursing. The new campus has got distinction bestowed

with unique natural and pollution free peaceful environment on the state highway Faizabad-Allahabad bypass which also connects Lucknow, Varanasi, Allahabad & up to extreme east of U.P. In 1973 the Society was rechristened as Kamla Nehru Memorial Trust to achieve the under mentioned objectives.

**THE OBJECTIVE:**

- To establish, maintain and administer institutions for elementary, higher secondary, professional and higher education to benefit each and every section of the society.
- To organize & coordinate government/ non-government sponsored activities for socio-economic and cultural empowerment of the under privileged/ economically depressed people.
- To organize and coordinate activities sponsored by state, central and international agencies for health cover, drinking water, housing, disaster management and environmental protection including soil and water conservation, land reclamation, drainage and irrigation, social and farm forestry, village sanitation and energy conservation/ management.
- Advancement of Science and Technology through teaching, research, location specific testing and technology dissemination for large scale application by the people.
- To establish libraries, information, education and communication centres for awareness, people education and advancement of welfare programmes in rural and urban areas.
- To organize non-formal, adult and continuing education for people representing rural and urban areas through Krishi Vigyan Kendra, Jan Sikshan Sansthan Industrial Training Institutes, Polytechnique and other vocational institutions.
- To organize and promote government/ non-government supported activities in public private and people partnership mode to generate greater income and employment opportunities for resource poor people in rural and urban areas.
- To aid and financially support the meritorious students/ scholars of socially and economically disadvantaged sections of the society.
- To organize government/ non-government sponsored health and welfare camps for animals and human being and to help the physically challenged people.
- To help men, women workers and artisans to organize self-help groups for promotion and management of social and economic development activities.
- To create government/ non-government assisted infrastructure for capacity building, entrepreneurship development in marketing, insurance, transportation, storage, processing etc. in farm and non-farm sectors.
- To create resources like land, building, funds and other moveable/ immoveable assets for initiating, organizing, managing and maintaining the aforesaid activities/ institution

**VISION:** “The aim of establishing Kamla Nehru Institute is not only building a campus for imparting education rather, to establish an institution for fight against poverty with the double resolve to translate the intention of the inhabitants of the region who fought for the struggle of freedom with great zeal and enthusiasm in the revolution of the year 1857. Kamla Nehru Institute shall be the centre for fight of economic freedom with its avowed object for excellence and economic justice”.

**MISSION:**

- To impart quality education to students, without any caste, racial, social, economic and gender discrimination.
- Use of modern technology for both innovative and effective teaching.
- To conduct career-oriented courses, to prepare them for future opportunities.
- To cultural and environmental enrichment and create disciplined as well as socially responsible citizens.
- To prepare students to face the untimely challenges and, how to successfully overcome it.

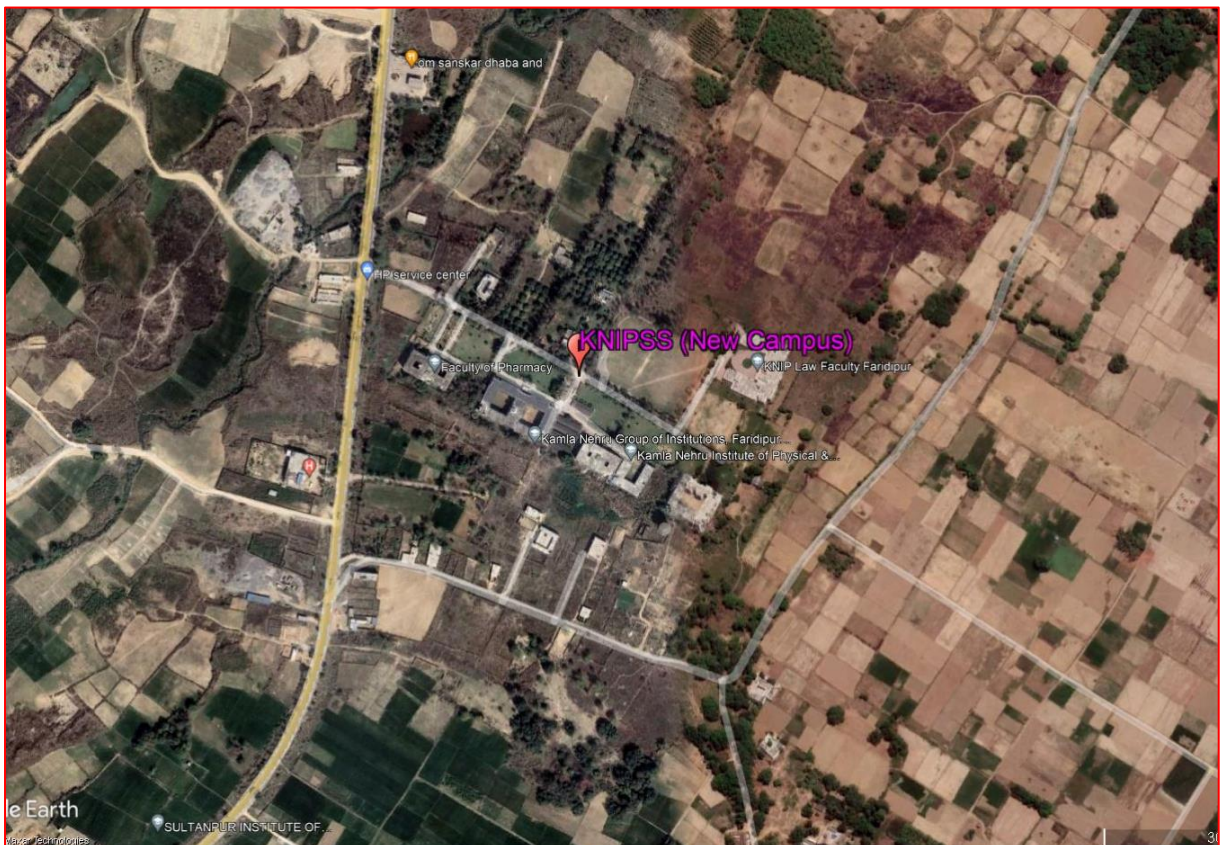
**7.0 LOCATION OF INSTITUTE**

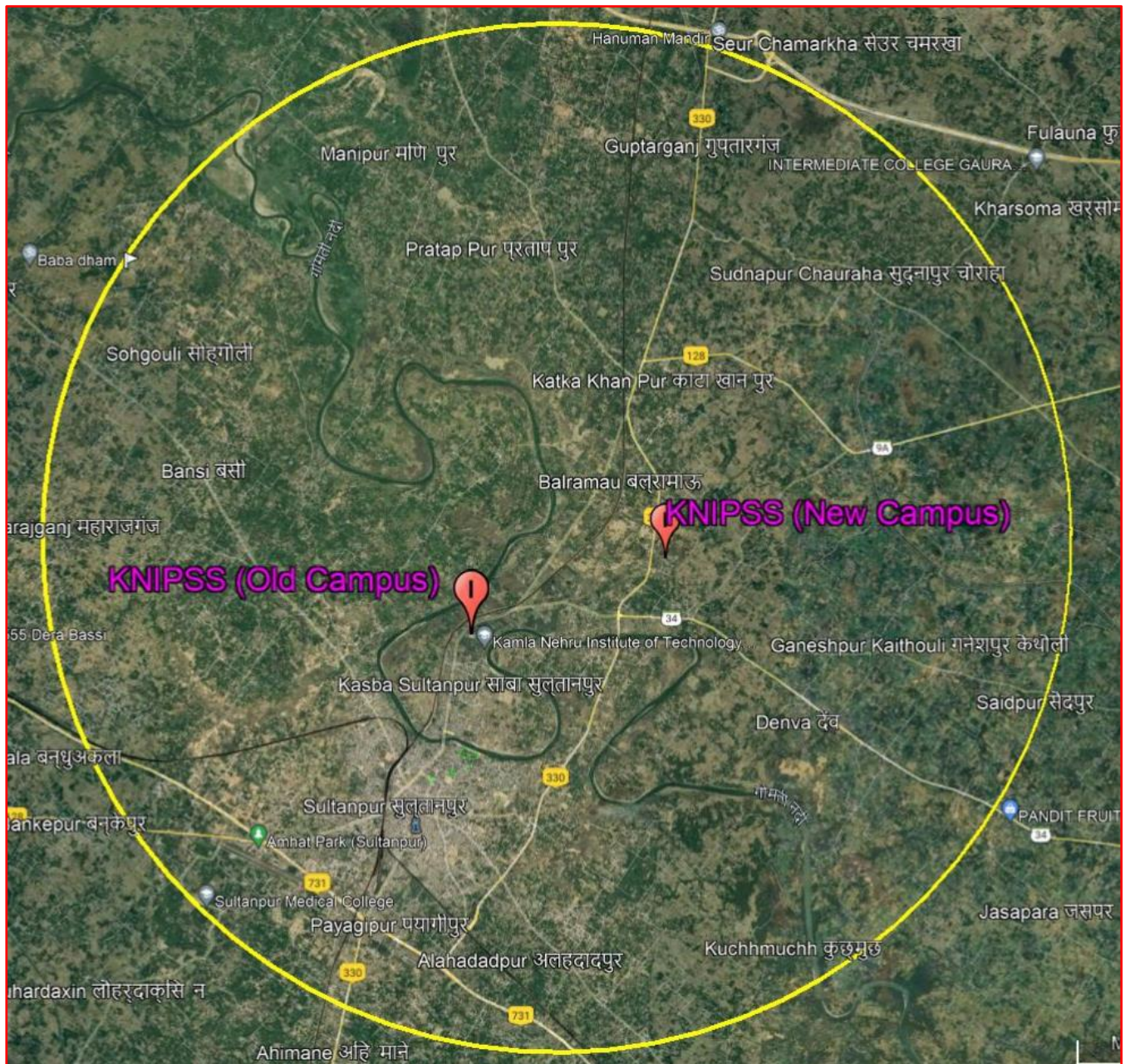
Kamla Nehru Institute of Physical and Social Sciences (KNIPSS) is situated in Sultanpur, U.P. The coordinates of old campus and new campus are Latitude: 26°17'22.30"N, Longitude: 82° 4'52.20"E & Latitude: 26°18'15.99"N, Longitude: 82° 7'5.79"E respectively. Layout and location map of the institute are depicted below:

**Layout Plan/Location of Old Campus**



**Layout Plan/Location of New Campus**



**Location of Institute (Both Campus) in 10 Km Radius**

*Map showing the location of institute (both campus) in 10 Km Radius*

**8.0 TOTAL AREA OF INSTITUTE CAMPUS**

The entire (both) campus of institute is spread over around 37.491 Hectare area. Out of which Green Belt covered an area around 80% of the total land area. Total build-up area of institute is 179646.78 Sq. Feet.

**9.0 TOTAL STRENGTH**

S. No.	Particulars	Numbers
1.	Teaching Staff	154
2.	Non-Teaching Staff	105
3.	Students	11715
4.	Security guard	10
<b>Total</b>		<b>11984</b>

**10.0 COMPONENT OF GREEN AUDIT****10.1 Water**

Water is a natural resource; all living matters depend on water. While freely available in many natural environments, in human settlements potable (drinkable) water is less readily available. We need to use water wisely to ensure that drinkable water is available for all. Aquifer depletion and water contamination are taking place at unprecedented rates. It is therefore essential that any environmentally responsible institution should examine its water use practices. Water auditing is conducted for the evaluation of facilities of raw water intake and determining the facilities for water treatment and reuse. The concerned auditor investigates the relevant method that can be adopted and implemented to balance the demand and supply of water. It is therefore essential that any environmentally responsible institution examine its water use practices.

**10.1.1 Source of water**

The main source of water in college campus is ground water i.e. bore well. Institute campus has 08 nos. of bore well. The details of bore well are as under:

**Details of Bore Wells**

Bore Well No.	Location	Dia & Depth	Pump Capacity
Bore Well-1	New Science Faculty	Depth: 120 Feet Dia: 102 mm	03 HP
Bore Well-2	Admin Office	Depth: 120 Feet Dia: 102 mm	03 HP

Bore Well-3	Science Faculty	Depth: 120 Feet Dia: 102 mm	03 HP
Bore Well-4	Art Faculty	Depth: 120 Feet Dia: 102 mm	03 HP
Bore Well-5	Commerce Faculty	Depth: 120 Feet Dia: 102 mm	03 HP
Bore Well-6	Home Science	Depth: 120 Feet Dia: 102 mm	03 HP
Bore Well-7	New Campus	Depth: 120 Feet Dia: 102 mm	03 HP
Bore Well-8	New Campus	Depth: 120 Feet Dia: 102 mm	03 HP

### **Suggestions/Recommendations**

- *Management is advice to conduct the ground water quality analysis (outlet of bore well) twice in a year pre-monsoon and post-monsoon.*
- *Management is advice to install the electromagnetic water flow meter at the outlet of each borewell for the measurement of daily extraction of ground water and record should be maintained in a logbook.*

### **10.1.2 Water Storage Facility**

For the storage of fresh water required quantity of overhead PVC Tank as well as civil tank of adequate capacity are available on the roof top of building in the campus.

Each drinking water booth have the two number of over head tank on the roof top. Sample photographs of drinking water booth id depicted below:



Photographs of Drinking Water Booth with storage tank

### Suggestions/Recommendations

- Drinking water dispensing machine and & overhead water storage tank should be mentioned with its cleaning date and next due date of cleaning.

### 10.1.3 Water Consumption Details

SNo.	Particulars	Number of Persons/Quantity	Water consumption as per NBC Norms (Litre/Head)	Total Water Consumption (In KL/Day)
1.	Teaching Staff	154 nos.	45	6.930
2.	Non-Teaching Staff	105 nos.	45	4.720
3.	Students	11715 nos.	45	527.170
4.	security guard	10 nos.	45	0.450
5.	Visitors	150 nos.	15	2.250
6.	Canteen (03 nos.)	150 Seat	35	5.250
7.	Hostel (03 nos.)	540 beds	135	72.900
8.	Laboratory	12 nos.	-	4.000
<b>Total Water Requirement (In KL/Day)</b>				<b>623.67</b>
<b>Round Up</b>				<b>624 KL/Day</b>



### 10.1.4 Waste Water Generation & Management

#### Waste Water Generation

SNo.	Source of Generation	Type of Waste Water	Quantity of Generation (KL/Day)	Disposal Method
1.	Domestic Activities	Sewage Waste	550	Septic Tank & Soak Pit
2.	Laboratory	Effluent	3.5	-

#### Management of Waste Water

All the waste water generated in the both campus institute disposed through septic tank and soak pit.

#### Suggestions/Recommendations

- *It was observed that all the waste water such as sewage waste, laundry waste water & laboratory waste water disposed through the septic tank and soak pit. An adequate capacity of Sewage Treatment Plant (STP) for the treatment of sewage waste and an adequate capacity of Effluent Treatment Plant (ETP) for the treatment of laboratory effluent is recommended inside the college campus premises and reuse the treated water in green belt, flushing etc.*

## 10.2 Ambient Air

### 10.2.1 Source & Management

The source of the ambient air pollution in the institute campus is 05 number of D.G. Sets provided for the alternate electrical energy source as standby. The details of D.G. Sets are as under:

D.G. Set No.	Location of D.G. Set	Capacity
D.G. Set No.-01	Art Faculty	62 KVA
D.G. Set No.-02	Home Science Faculty	25 KVA
D.G. Set No.-03	Near KVK Building	25 KVA
D.G. Set No.-04	New Campus	165 KVA
D.G. Set No.-05	New Campus	62 KVA



Photograph of D.G. Set installed in Campus Area

For the control of air pollution each D.G. Set is installed with adequate height of stack. Details of average fuel consumption are as under:

DG Set Name	Location	Capacity	Fuel Consumption
D.G. Set-1	Art Faculty	62 KVA	10 Ltr/Hr
D.G. Set-2	Home Science Faculty	25 KVA	4.0 Ltr/Hr
D.G. Set-3	Near KVK Building	25 KVA	4.0 Ltr/Hr
D.G. Set-4	New Campus	165 KVA	32 Ltr/Hr
D.G. Set-5	New Campus	62 KVA	12 Ltr/Hr

### **Suggestions/Recommendations**

- It was observed that stack monitoring of DG Set not carry out, in this regard management is advice to provide the port hole with platform to the stack of DG Set and carry out the stack monitoring at six-monthly basis.
- It is also advice to conduct the six-monthly ambient air monitoring at least three locations in the college campus.

### 10.3 Noise

#### 10.3.1 Source & Management

The source of the ambient noise in the institute campus area is 05 number of DG Set of capacity 62 KVA, 25 KVA, 25 KVA, 165 KVA & 62 KVA provided for the alternate electrical energy source as standby. Another source of ambient noise of the campus is vehicular traffic of surrounding area. For the control of noise all D.G. Sets are installed with acoustic enclosure.

### 10.4 Solid / Other Waste

#### 10.4.1 Types of waste

Mainly municipal solid waste generated in the campus. To keep campus environment green and healthy, concrete provisions for the disposal of solid waste are in place. For different forms of solid waste, institute have different provisions for proper disposal. Major solid wastes generated in the campus are broken furniture, used and old files and papers, broken glass wares, empty plastic and iron cans and broken and damaged specimen and used dissecting materials, E-waste, hazardous waste from laboratories etc.

#### 10.4.2 Management of Waste

1. Dustbins of different colors are installed in the campus for collection of waste. Blue dustbins are used for the disposal of paper waste. Red dustbins are used for plastic products. Green dustbins are used for biodegradable waste.
2. As per the requirement of the campus KNIPSS has one dumping pit. This pit is situated in science faculty behind the labs.



3. Institute workers collect the waste from dustbins and take it to the respective pit as well as disposed through local body.
4. Most of the bulk waste is sold off by the departments to scrap dealers and others are dumped in appropriate dumping site.
5. **E-waste:** For managing E- waste institute collect the electronic waste and give it to the scrap shops. Old and out of order and irreparable equipment like power supplies, frequency oscillators, printers, UPS, cartridges, lithium batteries modems, transistors, transformers, ICs etc. are disposed routinely by calling scrap dealers to keep campus free of E Waste. Students are advised not to throw and dump carelessly their useless electronic gadgets and help in making campus free of E- waste.
6. **Hazardous (Liquid Waste):** To minimize generation of liquid waste indiscriminate use of chemicals in laboratories is discouraged. But various kinds of liquid wastes are generated in the departments of science such as chemistry, zoology, and botany. Expired liquids and many used preservatives, reagents and chemicals from science labs are collected in plastic buckets. Then disposal of liquid waste is done carefully in appropriate sites so that it should not cause any danger for the environment. The waste which is soluble in water is stored in a tank which is dug in the ground.
7. **Hazardous (Waste Lubricant Oil):** The generated waste lube oil disposed through service engineer of DG Set during its servicing.

### **Suggestions/Recommendations**

- *Management is advised to segregate the generated solid waste including municipal solid waste at source and should be disposed as per the "The Solid Waste Management Rules, 2016".*
- *The hazardous waste generated from the chemistry laboratory should be disposed as per the "The Hazardous Waste Management Rules, 2016".*
- *It is advised to all the generated Plastic Waste should be disposed as per the "The Plastic Waste Management Rules, 2016".*
- *Management is advised to segregate the generated e-waste at source before its disposal and disposed as per "The E-Waste (Management) Rules, 2016".*
- *Management is advised to maintain the record of battery waste and disposed as per "The Battery Waste Management Rules, 2020".*
- *During construction phase, management is advised to segregate the construction and demolition waste generated during construction activities at source for their reuse and properly dispose as per the "The Construction and Demolition Waste Management Rules, 2016".*

## 10.5 Energy (Electrical)

### 10.5.1 Sources

The main source of electricity is 01 number of electric connections with sanctioned load of 90 KW in old campus and 01 number of electric connections with sanctioned load of 90 KW in new campus from government.

05 number of DG Set of capacity 62 KVA, 25 KVA, 25 KVA, 165 KVA & 62 KVA available in the campus used as standby source in case of power failure.

### 10.5.2 Electricity Consumption

Monthly average consumption of electricity is around of Rs. 1,10,000/-. Latest copy of electricity bill is enclosed as annexure.

### 11.5.3 Energy Conservation measures adopted

For the energy conservation, institute campus has installed solar power system. Solar panels are installed at the roof top of institute building. The sanctioned load of solar system is 100 KVA and 356 panel installed at the roof top of both campus:



Photographs of Solar System



Photographs showing the Solar Panels at the Roof Top of Institute Campus



Photographs showing the solar based street lights in Institute Campus

#### **10.5.4 Benefits of Solar Power System:**

- After installation of solar power system, institute conserve the approximate 60% energy of total required energy.

## 10.6 Fire Fighting System

Essential firefighting facilities such as adequate quantity of fire extinguishers is available in each faculty of Kamla Nehru Institute of Physical and Social Sciences (KNIPSS).

### Suggestions/Recommendations

- Management is advice to provide the fire water storage tank as well as fire hydrant line in the both campus of institute.

## 10.7 Details of Green Belt

Green belt is developed on around 80% of the total land area and having various species trees, the existing green belt is regularly maintaining. The details of trees available in the campus are as under:

### Details of Trees available in campus area

S.No.	Name of the Plant	Quantity
1.	Agave Americana (Century plant) Asparagaceae	07 nos.
2.	Cassia fistula (Amaltaas) Fabaceae	14 nos.
3.	Artemisia L. (Artemisa) Asteraceae	01 nos.
4.	Ailanthus excelsa (Mahaneem) Simaroubaceae	03 nos.
5.	Asparagus racemosus (Satavar) Asparagaceae	02 nos.
6.	Neolamarckia cadamba (Cadamba) Rubiaceae	09 nos.
7.	Azolla pinnata (Mosquito fern) Salviniaceae	40 nos.
8.	Alstonia scholaris (Satparni) Apocynaceae	22 nos.
9.	Bambusa indica (Bamboo) Poaceae	01 nos.
10.	Callistemon lanceolatus (Bottle brush)	02 nos.

	Myrtaceae	
11.	Bauhinia (Kachnaar) Fabaceae	04 nos.
12.	Delonix regia (Gulmohar) Fabaceae	03 nos.
13.	Artocarpus heterophyllus (Jackfruit) Moraceae	03 nos.
14.	Butea monosperma (Flame of the forest) Fabaceae	05 nos.
15.	Calliandra surinamensis (Pink Tassel Flower) Mimosaceae	01 nos.
16.	Mangifera indica (Aam) Anacardiaceae	07 nos.
17.	Cannabis sativa (Sun hemp) Cannabaceae	03 nos.
18.	Ficus religiosa (Peepal tree) Moraceae	04 nos.
19.	Caryota urens (Fishtail palm) Arecaceae	07 nos.
20.	Ficus benghalensis (Banyan tree) Moraceae	04 nos.
21.	Catharanthus roseus (Rose periwinkle) Apocynaceae	50 nos.
22.	Azadirachta indica (Neem) Meliaceae	10 nos.
23.	Cinnamomum tamala (Tejpatta) Lauraceae	01 nos.
24.	Pongamia pinnata (Karanj) Fabaceae	03 nos.
25.	Cinnamomum zeylanicum (Dalchini) Lauraceae	01 nos.
26.	Pterospermum acerifolium (Kanak champa) Sterculiaceae	11 nos.
27.	Codiaeum variegatum (Garden croton) Euphorbiaceae	12 nos.
28.	Polyalthia longifolia (False Ashok)	06 nos.



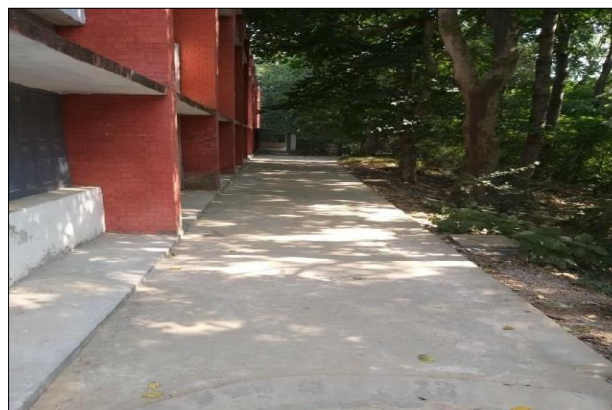
	Annonaceae	
29.	Ficus benjamina (Benjamin fig) Moraceae	03 nos.
30.	Cupressus (Cypress) Cupressaceae	01 nos.
31.	Roystonea regia (Royal palm tree) Arecaceae	17 nos.
32.	Cymbopogon flexuosus (Lemongrass) Poaceae	02 nos.
33.	Dieffenbachia (Dumbcane) Araceae	06 nos.
34.	Diospyros malabarica (Gaub tree) Ebenaceae	01 nos.
35.	Elettaria cardamomum (Cardamom) Zingiberaceae	01 nos.
36.	Encephalartos Zamiaceae	03 nos.
37.	Epipremnum aureum (Money plant) Araceae	04 nos.
38.	Eugenia uniflora (Brazilian cherry) Myrtaceae	01 nos.
39.	Euphorbia cyathophora (Dwarf poinsettia) Euphorbiaceae	04 nos.
40.	Excoecaria cochinchinensis (Jungle Fire plant) Euphorbiaceae	02 nos.
41.	Gladiolus grandiflorus (Sword lily) Iridaceae	01 nos.
42.	Hibiscus rosa-sinensis (China Rose) Malvaceae	26 nos.
43.	Hydrilla verticillate Hydrocharitaceae	01 nos.
44.	Ixora coccinea (Jungle geranium) Rubiaceae	02 nos.
45.	Lagerstroemia indica (Saawani) Lythraceae	06 nos.
46.	Lilium	01 nos.

	Liliaceae	
47.	Lygodium japonicum (Climbing fern) Lygodiaceae	01 nos.
48.	Marsilea (Water clover) Marsileaceae	01 nos.
49.	Mimosa pudica (Touch-me-not) Fabaceae	01 nos.
50.	Mimusops elengi (Spanish cherry) Sapotaceae	02 nos.
51.	Morus alba (Mulberry) Moraceae	02 nos.
52.	Murraya paniculata (Kamini) Rutaceae	01 nos.
53.	Nephrolepis Nephrolepidaceae	02 nos.
54.	Nyctanthes arbor-tristis (Har singar) Oleaceae	01 nos.
55.	Pistia stratiotes (Water cabbage) Araceae	01 nos.
56.	Platyclusus orientalis (Chinese thuja) Cupressaceae	01 nos.
57.	Plectranthus amboinicus (Patharchur) Lamiaceae	01 nos.
58.	Plumeria pudica (Wild Plumeria) Apocynaceae	01 nos.
59.	Polyalthia longifolia (False Ashoka) Annonaceae	03 nos.
60.	Prosopis cineraria (Shami/Khejri) Fabaceae	02 nos.
61.	Psidium guajava (Guava) Myrtaceae	04 nos.
62.	Pteris vittata (Chinese brake) Pteridaceae	02 nos.
63.	Punica granatum (Pomegranate) Lythraceae	02 nos.

64.	Ravenia spectabilis (Lemonia) Rutaceae	01 nos.
65.	Riccia glauca Ricciaceae	02 nos.
66.	Salvinia natans (Water velvet) Salviniaceae	01 nos.
67.	Sansevieria trifasciata (Snake plant) Asparagaceae	02 nos.
68.	Saraca asoca (Sita ashok) Fabaceae	01 nos.
69.	Tecoma stans (Yellow trumpet) Bignoniaceae	02 nos.
70.	Terminalia arjuna (Arjun tree) Combretaceae	01 nos.
71.	Thevetia peruviana (Peeli kaner) Apocynaceae	02 nos.

Photographs showing the green belt





Photographs showing the green belt developed in College Campus

**Suggestions/Recommendations**

- *Management s advice to construct the vermicomposting pits at appropriate places inside the college campus area for the degradation of horticulture waste generated in the campus (grass, tree leaves etc.) and covert in to the manure.*
- *It is advice to create mass awareness programme to protect biodiversity of campus among all the students, staff and workers.*
- *Management is advised to identify all the trees available inside the campus and record should maintained along with their location, species, diameter, height, age and geocoordinates.*
- *Management is also advice to display the name of plant over each tree.*

**10.8 Occupational Health Management**

- First Aid Box available in each department.
- Kamla Nehru Institute of Physical and Social Sciences has the tie-up with Swaraj Hospital, Sultanpur, which is situated around 02 Km. from the institute.

**10.9 Rain Water Harvesting**

It was observed that Rain Water Harvesting System not implemented in Kamla Nehru Institute of Physical and Social Sciences (KNIPSS).

**Suggestions/Recommendations**

- *It was observed that rain water harvesting system not implemented inside the campus area, management is advice to construct the rain water harvesting pits/structures as per Model Building Bye Laws.*

## 11.0 SUGGESTIONS / RECOMMENDATIONS

1. Management is advice to conduct the ground water quality analysis (outlet of bore well) twice in a year pre-monsoon and post-monsoon.
2. Management is advice to install the electromagnetic water flow meter at the outlet of each borewell for the measurement of daily extraction of ground water and record should be maintained in a logbook.
3. Drinking water dispensing machine and & overhead water storage tank should be mentioned with its cleaning date and next due date of cleaning.
4. It was observed that all the waste water such as sewage waste, laundry waste water & laboratory waste water disposed through the septic tank and soak pit. An adequate capacity of Sewage Treatment Plant (STP) for the treatment of sewage waste and an adequate capacity of Effluent Treatment Plant (ETP) for the treatment effluent is recommended inside the college campus premises and reuse the treated water in green belt, flushing etc.
5. It was observed that stack monitoring of DG Set not carry out, in this regard management is advice to provide the port hole with platform to the stack of DG Set and carry out the stack monitoring at six-monthly basis.
6. It is also advice to conduct the six-monthly ambient air monitoring at least three locations in the college campus.
7. Management is advice to segregate the generated solid waste including municipal solid waste at source and should be disposed as per the "The Solid Waste Management Rules, 2016".
8. The hazardous waste generated from the chemistry laboratory should be disposed as per the "The Hazardous Waste Management Rules, 2016".
9. It is advice to all the generated Plastic Waste should be disposed as per the "The Plastic Waste Management Rules, 2016".
10. Management is advised to segregate the generated e-waste at source before its disposal and disposed as per "The E-Waste (Management) Rules, 2016".
11. Management is advised to maintain the record of battery waste and disposed as per "The Battery Waste Management Rules, 2020".
12. During construction phase, management is advice to segregate the generated construction and demolition waste at source for their reuse and properly dispose as per the "The Construction and Demolition Waste Management Rules, 2016".
13. Management is advice to provide the fire water storage tank as well as fire hydrant line in the both campus of institute.

14. Management s advice to construct the vermicomposting pits at appropriate places inside the college campus area for the degradation of generated horticulture waste (grass, tree leaves etc.) and covert in to the manure.
15. It is advice to create mass awareness programme to protect biodiversity of campus among all the students, staff and workers.
16. Management is advised to identify all the trees available inside the campus and record should maintained along with their location, species, diameter, height, age and geocoordinates.
17. Management is also advice to display the name of plant over each tree.
18. It was observed that rain water harvesting system not implemented inside the campus area, management is advice to construct the rain water harvesting pits/structures as per Model Building Bye Laws.

### **ABOUT ENVIRONMENTAL CONSULTANT**

Our Organization, **M/s Earth Protection Group Environmental Consultant Pvt. Ltd.** was registered as a Pvt. Ltd. Company in the year 2000. (Company Identification No. U74210UP2000PTC025670) & ISO 9001:2015,14001:2015 & 45001:2018 certified company. The organization is also accredited by QCI-NABET (Accreditation Certificate No. NABET/GWCO/IA/GW024) as for Impact Assessment Report/Hydrogeological Report for Ground Water.

We are one of the leading consultants in the field of Environment & Industrial Safety. Our organization is providing Legal & Technical Consultancy in the field of Environment & Industrial Safety related issues for the last 20 years. The Company EPGEC incepted with well-equipped facilities and qualified team, offers a complete solution for Pollution Control, Industrial Safety and for Ground Water Withdrawal for industrial use under single platform. We cover a wide range of disciplines such as Analysis of Water, Soil, Noise, Air Monitoring, Environmental Audit, Green Audit, Water Audit, EIA, EMP, Impact Assessment Report for Ground Water, Hydrogeological Report, Waste Management, Safety Audit, Risk Analysis, HAZOP Study, On Site & Off-Site Emergency Plan etc. and “Design, Construction, Installation & Commissioning” further “Operation & Maintenance” of STP, ETP, RO, WTP, Swimming Pool etc. We provide training on Environment Management, Industrial Safety, Operation & Maintenance of Waste Water Treatment Plant. We also provide the services for the Preparation & Filing of Statutory Documents for CGWA, UPGWD, HWRA etc. & PCB for obtaining NOC, CTE & CTO. EPGEC’s clientele is very diverse. We provide services to different client segments as per their requirement.



M/s Earth Protection Group Environmental Consultant Pvt. Ltd. (EPGEC) is working under the guidance of the Managing Director, Dr. Nelesh Agrawal and Executive Director Dr. Rajeev Kanaujia. Core management of the organization is managed by Technical Personnel having specialized qualification in the field of (Environment and Industrial Safety) i.e. Doctorate and Post Graduate Degree in Environment Science & Post Graduate Diploma in Industrial Safety. Organization also has a team of well-qualified and experienced persons from different disciplines who provide successful services to leading Industrial Houses, Government Department, Infrastructure Projects like Housing, Road, Hospitals, and Hotels etc.



**QCI-NABET CERTIFICATE OF ACCREDITATION FOR IMPACT ASSESSMENT REPORT**

	<b>Quality Council of India</b> National Accreditation Board for Education and Training ITPI Building, 6th Floor, 4 - A, Ring Road, I P Estate, New Delhi - 110002	
<b>CERTIFICATE OF ACCREDITATION</b>		
Under the QCI-NABET Scheme for <b>Ground Water Consultant Organisation</b>		
		
<b><u>Earth Protection Group Environmental Consultant Private Limited</u></b>		
Address: 4-D/620-B, Sector-4, Gomtinagar Extension, Lucknow Uttar Pradesh-226010		
SL. No.	SCOPE COVERAGE	
	Industrial Use	Mining Projects
	Infrastructure Projects	
1	Hydrogeological report: Comprehensive report on groundwater condition/situation	
2	Impact Assessment report: Dealing with existing/ proposed withdrawal on Ground Water Regime including Socio-Economic impacts	
<p><b>Note:</b> Names of approved Project Coordinators and Technical Area Experts are mentioned in IA AC Minutes dated Mar 29, 2022 on QCI-NABET website.</p> <p><i>The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in NABET's letter of accreditation bearing no. QCI/NABET/GWCO/ACO/22/002 dated Apr 20, 2022. The accreditation needs to be renewed before the expiry date by Earth Protection Group Environmental Consultant Private Limited following due process of assessment.</i></p>		
		
Sr. Director, NABET Issue Date: Apr 20, 2022	Certificate No. NABET/GWCO/IA/GW024	Valid Upto Mar 28, 2025

**Annexure-1 (Society Registration Certificate)**

संख्या 02304/2020-2021	प्रारूप-9 नियम 8(2) देखिये	दिनांक 25/01/2021
		
<b>सोसाइटी के नवीनीकरण का प्रमाण-पत्र</b> <b>(अधिनियम संख्या 21, 1860 के अधीन)</b>		
नवीनीकरण संख्या:R/SUL/15281/2020-2021	पत्रावली संख्या:1-32744	दिनांक:1974-1975
<p>एतद्वारा प्रमाणित किया जाता है कि KAMLA NEHRU INSTITUTE OF PHYSICAL AND SOCIAL SCIENCES, SULTANPUR UTTAR PRADESH, सुतानपुर, 228118 को दिये गये रजिस्ट्रीकरण प्रमाण-पत्र संख्या- 155/1974-75 दिनांक-27/04/1974 को दिनांक-10/10/2020 से पांच वर्ष की अवधि के लिए नवीनीकृत किया गया है।</p> <p>1100 रुपये की नवीनीकरण फ़ीस सम्पूर्ण रूप से प्राप्त हो गयी है।</p>		
		
<b>Digitally Signed By</b> <b>(DURGESH TRIPATHI)</b> <b>97B8D6EAF2C0956231651316149B7B1CC24F46DE</b> <small>Date: 25/01/2021 1:01:50 PM, Location: Ayodhya.</small>		
जारी करने का दिनांक-25/01/2021	सोसाइटी के रजिस्ट्रार, उत्तर प्रदेश।	

**Annexure-2 (Institute/College Affiliation Certificate with University)**

दूरभाष - 05278-245957  
फैक्स - 05278-248123

डा० राममनोहर लोहिया अवध विश्वविद्यालय, फैजाबाद (उ०प्र०)

Letter No. Dr.RLAU/Affil./2018/ 8735

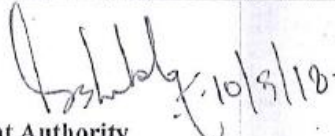
Dated: 10-09-2018

Revised Letter

**TO WHOM IT MAY CONCERN**

This is to certify that Kamla Nehru Institute of Physical & Social Sciences, Sultanpur is affiliated to the Dr. RamManohar Lohia Avadh University, Faizabad and recognised by the University Grants Commission (if applicable) and the following Courses/Subjects are taught in said college as per approval-

S. No.	Name of the Course(s) and Duration	Affiliation		Period of Validity for the year(s)
		Permanent	Temporary	
1	Three year B.A. Courses in Hindi, English, Sanskrit, Urdu, Geography, Economics, Sociology, Political Science, Med. History, Education, Psychology	Permanent		-
2	Two year M.A. Course in Hindi, English, Economics, Geography, Political Science, Med. History	Permanent		-
3	Three year B.Sc. Courses in Chemistry, Physics, Zoology, Botany, Mathematics, Electronics, Microbiology, Environmental Science	Permanent		-
4	Two year M.Sc. Chemistry, Physics, Zoology, Botany, Mathematics, Microbiology, Environmental Science	Permanent		-
5	Three year B.Com. Course	Permanent		-
6	Two year M.Com. Course	Permanent		-
7	Three year B.Sc. Home Science Course	Permanent		-
8	Two year M.Sc. Home Science Course in Food and Nutrition, Child Development	Permanent		-
9	Four year B.Sc. Agriculture Course	Permanent		-
10	Two year B.Ed. Course	Permanent		-
11	Two year M.Ed. Course	Permanent		-
12	Two year B.P.Ed. Course	Permanent		-
13	Three year B.B.A. Course	Permanent		-
14	Three year LL.B. Course	Permanent		-

  
 Competent Authority  
 (With Name, Designation, Seal and Signature)  
 Registrar  
 Dr. R.M.L. Avadh University  
 FAIZABAD

**Annexure-3 (Land Ownership Documents of Both Campus)**

**N.A** इन्टरकांफ खतौनी

नफल पारिवारिक खतौनी ग्राम **रतनपुर** परगना **करोसां** तहसील **सखर** जिला **सुजानपुर**

सन् **1410** फ. सं. **1410** फ. सं.

क्र. सं.	खातेदार का नाम पिता का नाम तथा विकास स्थान	मौजिदा अधिकार प्रारम्भ होने का वर्ष	खसरा नम्बर	खसराफल व चौकड़ में बोनों या एकड़ में	खातेदार द्वारा देय मालगुजारी या लगान	परिवर्तन सम्बन्धी दस्तावेज तथा दिनांक, आ.क्र. नं. व अधिकारी का पद जो 2 नम्बर या पंचायती अदालत द्वारा पंजीकृत	स.फ.				स.फ.	अ.स.फ.	टिप्पणी
							19	20	21	22			
<b>प्रथम भाग</b>													
<p>मौजिदा :- राज्य सरकार.</p> <p>आकिक-राज्य सरकार (वन विभाग के प्रवन्ध में) मुम्बई खाता क्र. 1001 कागि जमींदारी का और लगान काबलकार.</p> <p>कागि :- श्रमी जो मौजिदा काबलकारों के अधिकार में है- (क) ऐसे मौजिदा काबलकार जिन्होंने खाते की अधिपति के पत्रों पर हस्ताक्षर करके आरम्भ किये हैं।</p>													
2	कमलानेकर सरयान सुजानपुर.		826/4	0.223									
			836/2	0.062									
			828	0.062									
			820	2.808									
			829	0.222									
			830	0.222									
			827	7.660									
			832	9.262									
			828	0.909									
			826	0.022									
			827	0.922									
			827	0.022									
			820	0.909									
			829	0.922									
			822/2	2.293									
			825	9.602									
			822	2.822									
			826	9.222									
			826	0.222									
			827	0.802									
			827/4	0.922									
			836/3	0.222									
			832/2	9.220									
			828/2	9.222									
			222/2	9.292									
			828/9	0.322									
			822	3.820									
			822	9.222									
			822	0.922									
			अधिसूचना	82.803	9.26.20								

मुजिद  
 14/8/10  
 जिलाधिकारी  
 सुजानपुर

19/11/0  
 28/5/10  
 19/11/0

**उद्धरण खतौनी**

क्र. : 50071000184      ग्राम का नाम : फरीदी पुर      परगना करौसा      तहसील : जय सिंह पुर

खतौनी : सुलतानपुर      फसली वर्ष : 1418-1423      भाग : 1

खतौनी का नाम      निवास स्थान      भूमिक अधिकार      खाते के प्रत्येक      प्रत्येक      खातेदार      परिवर्तन सम्बन्धी आता या जम्का      टिप्पणी

संरक्षक का नाम      संरक्षक का नाम      प्राप्त होने का      गाटे की खसरा      गाटे का      द्वारा देय      संग्रहण जम्का संख्या तथा दिनांक

फसली वर्ष      फसली वर्ष      संख्या      संख्या      क्षेत्रफल      मालगुजारी      सहित और आता देने      या लगान      वाले अधिकारी का पद

1	2	3	4	5	6	7-12	13
श्रेणी: 1-क	भूमि जो संरक्षणीय भूमिधरो के अन्तर्गत में हो।						
00009	अमीरुल हसन संशुल हसन अनिल कुमार मोहिस नावा.9वर्ष श्रीमती नसरीन बानो	अबुल हसन अबुल हसन दयाराम सिंह ज्याउल हसन सं.नसरीन बानो ज्याउल हसन	सेदपुर सेदपुर बरआ प.अल्देयऊ सेदपुर सेदपुर	167क 168क 170क 171ख 173क 289ग 295ग 358ख 383ग 299ग 162घ	0.8530 0.3040 0.1080 0.1390 0.0250 0.0390 0.0190 0.0300 0.0170 0.0380 0.0130	1418क0आदेशानुसार श्रीमान तहसीलदार जयसिंहपुर वाद स0957/1180/03-06-11खतौनी सन 1418-1423 ख0खाता स09क0 गाटा स0162घ/0.013,167क/0.853, 168क/0.304,170क/0.108,171ख/0.139,173क/ 0.025,289ग/0.039,295ग/0.019,299ग/0.038, 358ख/0.030,383ग/0.017कुल 11किता/1.585हेठ का 1/2भाग अपना सम्पूर्ण अंश मा0परता खाता से अमीरुल हसन व संशुल हसन सुतराण अबुल हसन नि.सेदपुर का नाम खालि करके कमलानेहरु मौलिक एवं सामाजिक विकास संस्थान सुलतानपुर पर.वदौसा तह.जयसिंहपुर द्वारा कार्यालय प्रमारी श्री अनिलकुमार सिंह पुत्र दयाराम सिंह नि.उरोक्त का नाम जरिये बेनामा ताबदी 250000/द्वं क्रिया गया। अंकन दिवि 03-06-11	
						1418क0आदेशानुसार श्रीमान तहसीलदार जयसिंहपुर वाद स0958/701/03-06-11खतौनी सन 1418-1423 ख0खाता स09क0 गाटा स0162घ/0.013,167क/0.853 168क/0.304,170क/0.108,171ख/0.139,173क/ 0.025,289ग/0.039,295ग/0.019,299ग/0.038, 358ख/0.030,383ग/0.017हेठका 1/4भाग अपना सम्पूर्ण हिस्सा मा0परता खाता से श्रीमती नसरीन रिजवी पत्नी ज्याउल हसन नि.ग्राम सेदपुर का नाम खारिज करके कमलानेहरु मौलिक एवं सामाजिक	

7/9/2012

पृष्ठ संख्या : 1 of 2


3571000184 ग्राम का नाम : फरीदी पुर परगना बरोसा तहसील : जय सिंह पुर  
 : सुलतानपुर फसली बर्ष : 1418-1423 भाग : I


खानेदार का नाम	पिता / पत्नी / संरक्षक का नाम	निवास स्थान	भूमिक अधिकार प्राप्त होने का फसली बर्ष	खाले के प्रत्येक गाटे की खसरा संख्या	प्रत्येक गाटे का क्षेत्रफल (हे.)	खानेदार द्वारा देव मालगुजारी या लगाने वाले अधिकारी का पद	टिप्पणी
1			3	4	5	6	7-12
							13

कुल गाटे : 11 कुल क्षेत्र : 1.5850

विधान संस्थान सुलतानपुर पर बरोसा तह. जयसिंहपुर  
 जिला सुलतानपुर द्वारा कार्यालय प्रमारी श्री अनिल कुमार सिंह सुत ब्यारोकर नि.उमरोला का नाम जयिसे वैनाग तावती 142000 बजं किया गया।  
 अंकन तिथि 03-06-11  
 18.00

हस्ताक्षर





7/9/2012