

तारीख / Date:12-12-2022

जापनसंख्या/ Memo no:MGNCRE/SAP/21



भारत सरकार / Government of India

महात्मा गांधी राष्ट्रीय ग्रामीण शिक्षा पररषद / Mahatma Gandhi National Council of Rural
Education उच्चशिक्षाशिभाग/Department of Higher Education

शिक्षामंत्रालय / Ministry of Education



Sustainability Index Certificate

This is to certify that **Kharagpur College, Kharagpur, Paschim Medinipur, W.B.** has successfully elevated the Swachhta Action Plan, adopted and implemented best practices in the areas of Sanitation, Hygiene, Waste Management, Water Management, Energy Management and Greenery Management.

Dr W G Prasanna Kumar
Chairman
MGNCRE, Ministry of Education
Government of India

Green Audit Certificate *(As per Green Building Parameters)*

The study is conducted as per Indian and International Green Building Standards initiated in the capacity of an Accredited & Certified Green Building Professional

It is awarded for **2020-2021 and 2021-2022** to the Esteemed Institution

(Analysed for 2 years and extended validity for 1 year, thus total 3 years)

Kharagpur College

OT Road, Inda, Kharagpur, Paschim Medinipur, West Bengal, India – 721305

(Site visit held on Friday, 20 January 2023)

As part of the Institution's initiatives for a Healthy & Sustainable Institute the audit was conducted.
We appreciate the immense efforts taken by Staff and students towards the Efficient Management of Premise.

Issued on **Wednesday, 15 March 2023** and valid till **March 2024**


Ar. Nahida Abdulla Shaikh

Registered Architect, P.G.D.R.D, ISO Certified I. A. (IMS)

Indian Green Building Council Accredited Professional (IGBC AP)

ASSOCHAM GEM Green Building Council Certified Professional (**Registration. No. 22/718**)

Project Head and Green Building Professional-Consultant

Sustainable Academe I Sustainability Department of Greenvio Solutions, Naigao

An environment Design and Consultancy developing Healthy and Sustainable Environment

Email: sustainableacademe@gmail.com I greenviosolutions@gmail.com



Website: <https://thegreenviosolutions.co.in/>

GREEN AUDIT

STUDY PERIOD (TWO YEARS) 2020 – 2021 & 2021 – 2022

Sustainability study
AUDIT REPORT

Studied for
Kharagpur College

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Background reference image Sasin Tipchai on unsplash

Disclaimer

The Audit Team has prepared this report for the **Kharagpur College** located at OT Road, Inda, Kharagpur, Paschim Medinipur, West Bengal, India – 721305 based on input data submitted by the College analysed by the team to the best of their abilities.

The details have been consolidated and thoroughly studied as per the various guidelines for Green Buildings available in National and International Standards; the report has been generated based on comparative analysis of the existing facilities and the prerequisites formulated by various standards. The inputs derived are a result of the inspection and research. These will further enhance and develop a Healthy and Sustainable Institution.

These can be implemented phase wise or as a whole depending on the decision taken by the Hon'ble Management and College. The warranty or undertaking, expressed or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

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Greenvio Solutions

Developing Healthy and Sustainable Environments

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Palghar District, Maharashtra- 401208

sustainableacademe@gmail.com

Introduction

About the Institute and its history

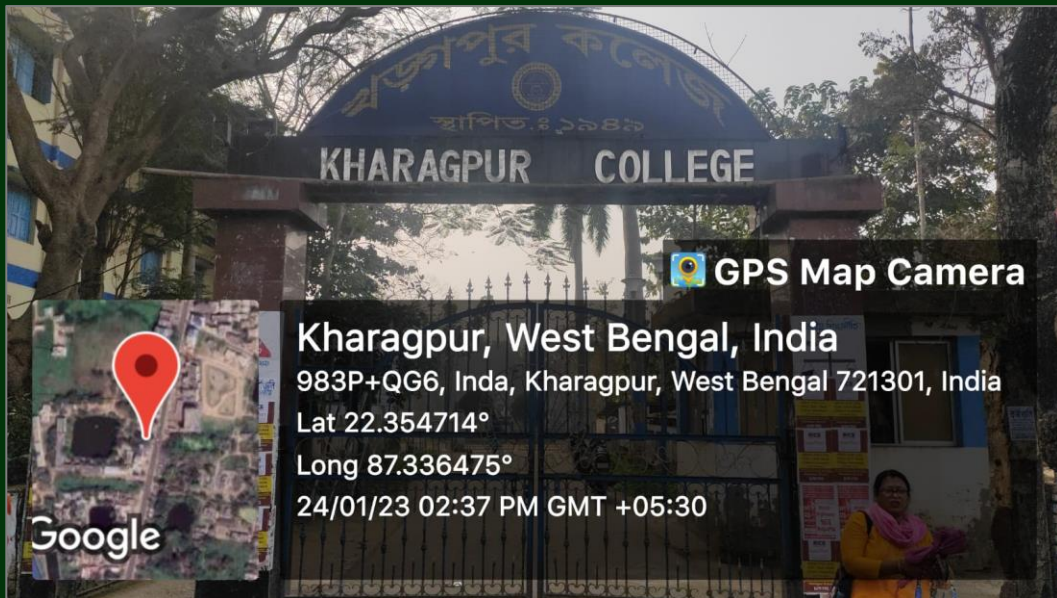
Kharagpur College is a highly esteemed co-educational academic institution offering UG & PG Courses in multifarious subjects. The College is situated on a lush sprawling campus at India.

Total College Area & College Building Spread Area

The **total site area is 20.09 acres & total Built-up area of College is 1,80,187.86 sq. ft. for around 3,763 populace footfalls.**

Green practices Audit

The College has undertaken certain social initiatives for local villages; they have informed during the discussion that it shall proceed with multiple activities in future. Currently it has dedicated 'Outreach committee' which undertakes certain activities.



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ENERGY AUDIT

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Energy Audit

The following analysis is combined for entire premise taking into considerations the duration as per schedule and usage of the premises.

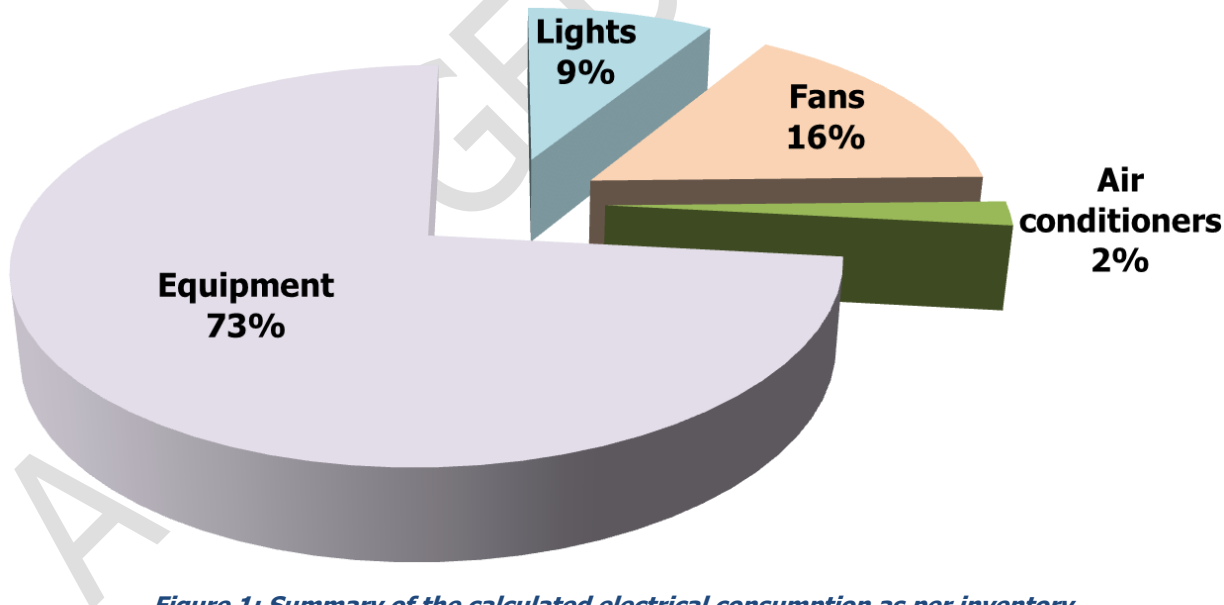
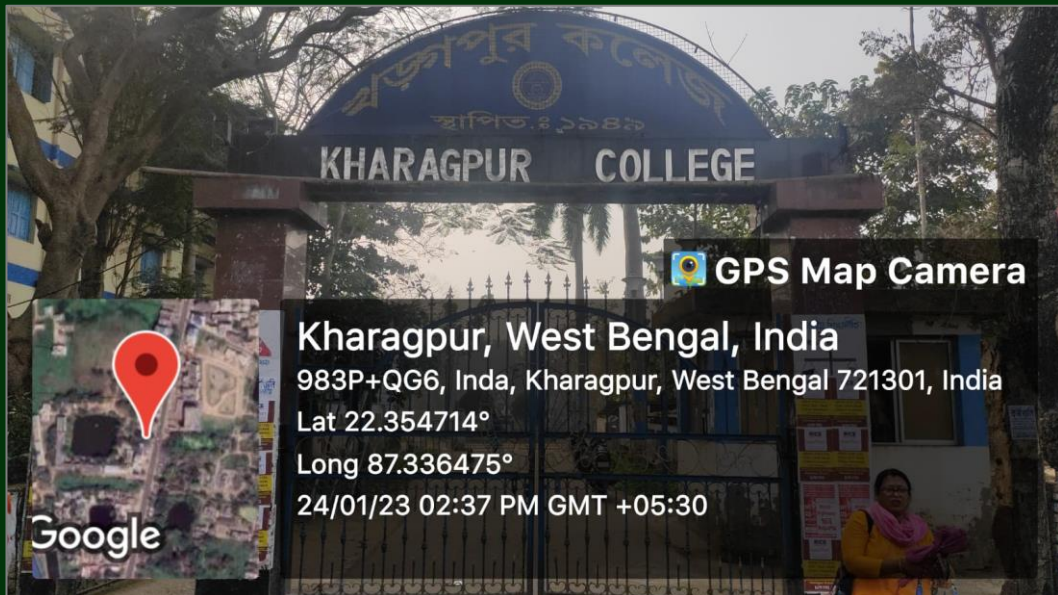


Figure 1: Summary of the calculated electrical consumption as per inventory

The above graph shows that equipment consumes 73% whereas the fans consume 16% while the lights consume 9% and the air conditioners consume 2% of the total calculated electrical energy.



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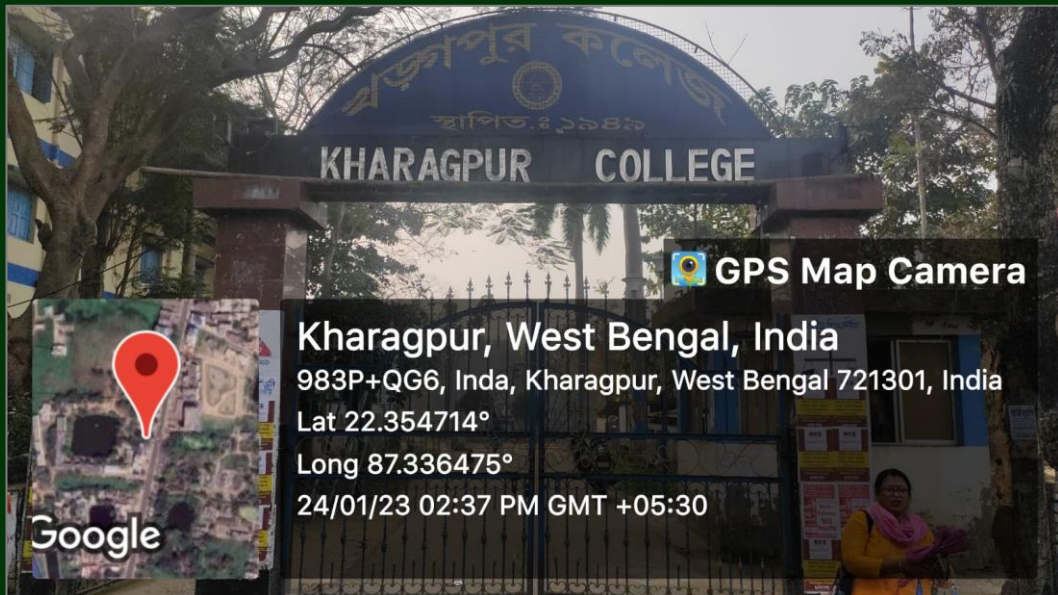
Environment Audit

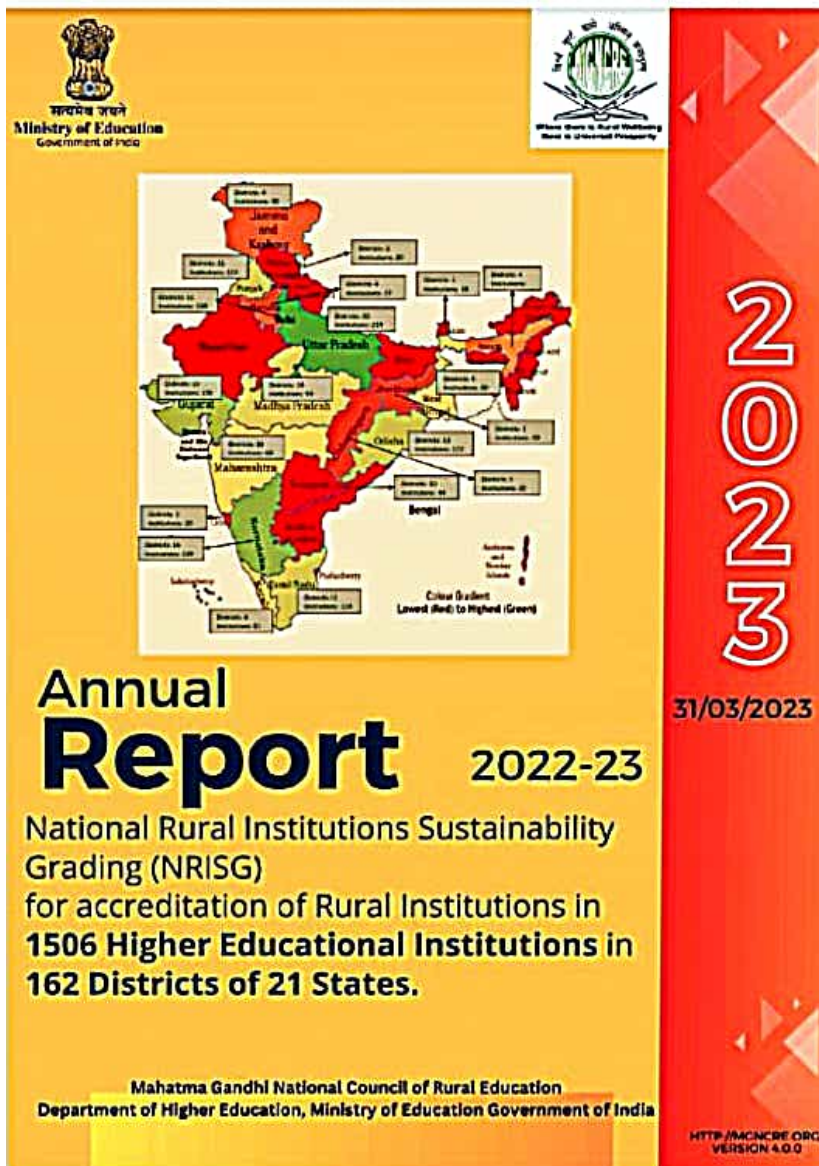
The documentation of the 99 nos. of plantations in presented below:

S. No.	Plant name	Type	Nos.	Planted by
1	<i>Swietenia macrophylla</i>	Tree	10	Staff
2	<i>Beaucarnea recurvata</i>	Shrub	2	Staff
3	<i>Combretum erythrophyllum</i>	Tree	3	Staff
4	<i>Pterocarpus marsupium</i>	Tree	5	Students
5	<i>Alstonia scholaris</i>	Tree	4	Staff
6	<i>Polyalthia longifolia</i>	Tree	9	Staff
7	<i>Mimusops elengi</i>	Tree	4	Staff
8	<i>Caryota urens</i>	Tree	2	Staff
9	<i>Hyophorbe lagenicaulis</i>	Shrub	4	Staff
10	<i>Magnolia champaca</i>	Tree	1	Staff
11	<i>Thuja occidentalis</i>	Shrub	1	Staff
12	<i>Tectona grandis</i>	Tree	10	Staff
13	<i>Cascabela thevetia</i>	Tree	1	Staff

14	<i>Syzygium cumini</i>	Tree	3	Staff
15	<i>Tamarindus indica</i>	Tree	18	Grown Naturally
16	<i>Azadirachta indica</i>	Tree	1	Grown Naturally
17	<i>Psidium guajava</i>	Tree	2	Grown Naturally
18	<i>Mangifera indica</i>	Tree	1	Grown Naturally
19	<i>Spathodea campanulata</i>	Tree	3	Staff
20	<i>Musa × paradisiaca</i>	Shrub	1	Students
21	<i>Albizia lebbbeck</i>	Tree	2	Staff
22	<i>Pterocarpus santalinus</i>	Tree	1	Staff
23	<i>Sena fistula</i>	Tree	1	Staff
24	<i>Terminalia bellirica</i>	Tree	2	Staff
25	<i>Bauhinia purpurea</i>	Tree	1	Students
26	<i>Roystonea regia</i>	Tree	4	Staff
27	<i>Cycas rumphii</i>	Shrub	2	Staff
28	<i>Manilkara zapota</i>	Tree	1	Staff

Table 1: Details of the plantations in the premises





**National Rural Institutions Sustainability Grading(NRISG)
by 162 Action Research Investigators and 18 MGNCRE
Resource Persons in 1506 HEI's, 162 Districts & 21 States
Annual Report 2022-23**

<http://mgncre.org/>

VERSION 1.0.0

31/03/2023





1.4.21 West Bengal NRISG Phase I

8 of 23 Districts covered by 8 Action Research Investigators guided by 1 Resource Person. 80 of 120 HEIs Covered over a span of TIME_PERIOD weeks with Action Research Investigators visiting each of the college in person for the assessment / sarvekshan. The MGNCRE Resource Person facilitated the Action Research Investigator visits and groomed the Action Research Investigators.

The name of Districts: Darjeeling, Jalpaiguri, Alipurduar, North 24 Parganas, Howrah, Jhargram, Paschim Medinipur, Purulia Districts

The HEIs in the Districts in West Bengal are familiar with Sustainability parameters. 67% of the HEIs visited by the Action Research Investigators have a connect with MGNCRE from the past programs/workshops.

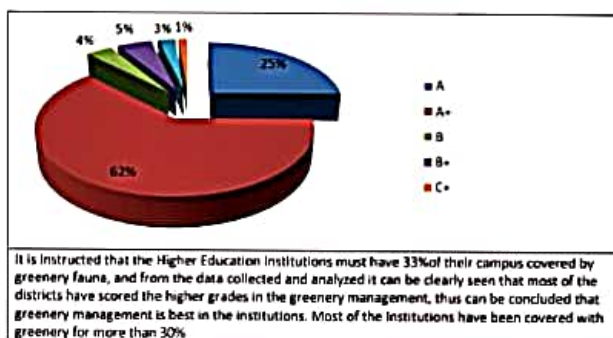
Each of the Institutes have in place a committee to oversee the running of Social Entrepreneurship, Swachhta and Rural Engagement (SESRE), Rural Entrepreneurship Development (REDC). The committee comprises of Management and Senior Faculty of the Institute.

The Institutes where the Assessment / Sarvekshan was done in 2021-22 had committed to Improvements with regard to recycling/reuse, solar panels, waste management. Significant Improvements were visible as reported by the Action Research Investigators.

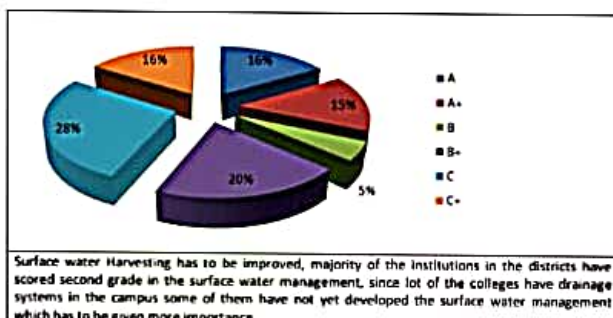
Benefits to the State of West Bengal due to the work done by MGNCRE:

- Capacity Building by developing and strengthening the skills, instincts, abilities, processes and resources that the state needs for working with the Institutes and communities on Sustainability parameters.
- Sustainable initiative taken up by HEIs for the betterment of the Campus and Communities

1. Green Cover on Campus

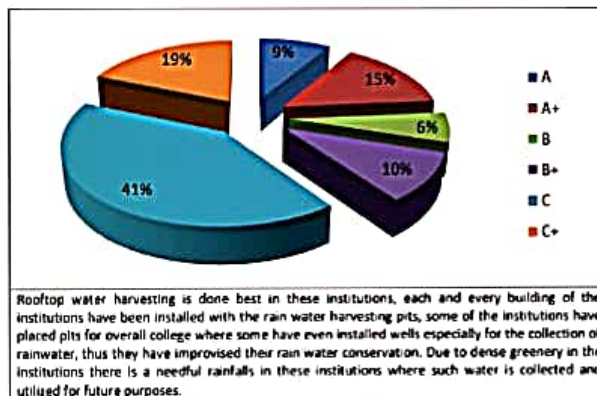


2. Surface Water Harvesting

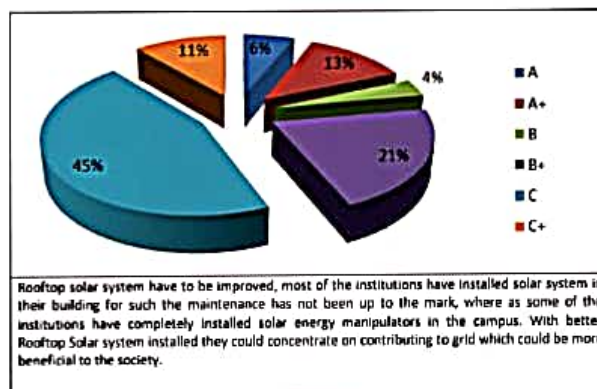




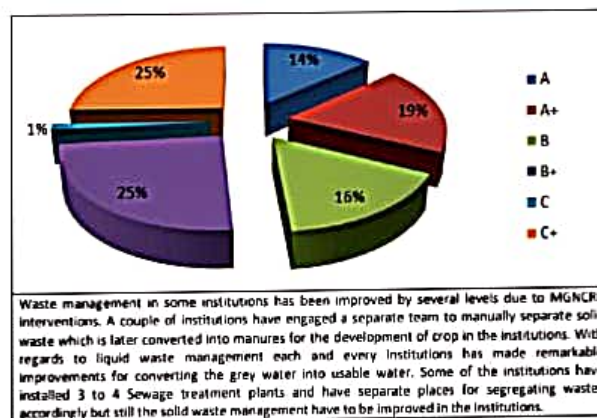
3. Rooftop Water Harvesting



4. Rooftop Solar System



5. Waste Management





State: West Bengal

Sr No	District Name	HEI Name	Green Cover on Campus	Surface Water Harvesting	Rooftop Water Harvesting	Rooftop Solar System	Waste Management
1	Alipurduar	ALIPURDUAR B.ED TRAINING COLLEGE	A+	A	C+	B+	C+
2		ALIPURDUAR COLLEGE	A	B+	B	B+	C+
3		BAIKUNTHA COLLEGE OF EDUCATION	A	A	C	C	C+
4		BIRPARA COLLEGE	A	C+	C+	B+	C+
5		FALAKATA B.ED COLLEGE	B	C+	C	C	C+
6		FALAKATA COLLEGE	A+	C+	C	C	B
7		PLUSH KANTI MUKHERJEE MAHAVIDYALAYA	B+	C+	C	C	B
8		SAHID KHUDIRAM COLLEGE	A	C+	C+	B+	C+
9		TECHNO INDIA TEACHERS TRAINING INSTITUTE	B+	C	C	C	C+
10		VIVERAMANDA COLLEGE	A	C+	C	C	C+
11	Darjeeling	Birsa Munda College	A+	A+	B+	A+	B
12		Kalpada Ghosh Tarai Mahavidyalaya	A	A+	A+	C+	B+
13		Naxalbari College	A+	C+	A+	C	B+
14		Pragati College of Education	A	C+	B+	C	C+
15		Salesian College	A+	A+	A+	B+	A+
16		Siliguri B. Ed College	A+	C	C	C	C+
17		Siliguri College	A+	A	C+	C	A
18		Surya Sen Mahavidyalaya	A+	A+	A	A+	A+
19		Trinity B. Ed College	A+	A+	B	C	A
20		Vidyasagar College of Education	A+	A	A+	C	A
21	Howrah	Narasinha Dutta college	A	B+	C+	C+	B
22		Hope Institute Of Bengal	C	C	C	C	C+
23		Kuntala Das Teachers Training college	C+	C	C	C	C+
24		Lalbaha College	B	C+	C+	C+	B+

National Rural Institutions Sustainability Grading (NRISG)

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25	Jalpaiguri	Purbayan Educational Institute	A	B	C+	C	B
26		Ramakrishna Mission Shilpayatana	A+	B	B	B	A
27		Ramakrishna Mission Sikhsana Mandir	A+	A	A	A+	A
28		Ramakrishna Vedanta Mission teachers Academy	B+	C	C	C	C+
29		Sea com B.ED College	C	C	C	C	C+
30		Surendralal Das Teachers Training college	B	C	C	C	C+
31		A.C. College	A+	C+	C+	C	A+
32		A.C. Commerce College	B+	C	B	C	B
33		A.C. Training College	A+	A+	A+	A+	A+
34		Dhupguri PTI	A+	C	C	C	B+
35	Jhargram	Dhupguri Sukanta Mahavidyalaya	A+	B+	B	B+	B+
36		Jalpaiguri Govt. PTI	A+	C	C	C	B
37		Maynaguri College	A+	B+	A+	C	A+
38		Maynaguri Manoranjan Saha Memorial B. Ed college	A+	B+	C	C	B+
39		North Bengal ST. Xavier College	A+	A	A+	A	A+
40		P.D. Women College	A	C	C	C	B
41		GGDC College Gopiballavpur-II	A+	C	C+	C	C+
42		Govt. Gen. Degree College Lalgarh	A+	C	C	C	A+
43		Jhargram Raj College	A+	C	A	C+	C
44		Jhargram Raj College (Girls' Wing)	A+	B	C	C	B+
45	North 24 Parganas	Kultiki Teachers' Training Institute of Higher Studies	A+	C+	C	C	C+
46		Manikpara V.S. Mahavidyalaya	A+	C	C	C	B
47		Nayagram PRM Govt. College	A	C	C	C	B
48		Seva Bharati Mahavidyalaya	A	C	C	C+	B+
49		Sevayatan Sikshan Mahavidyalaya	A+	C	C+	C+	A+
50		Subarnarekha Mahavidyalaya	A+	C+	C	C	C+
51		Barasat College	A	A	A	A+	A
52		Barasat Government College	A+	A	A	A+	A+
53		BARASAT SUBHAS CHANDRA COLLEGE OF EDUCATION	A+	A	A	A	B+
54		Kingston College of Science	A+	A+	B+	B+	B+

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Page 167

55	Paschim Medinipur	Kingston Law College	A+	A+	A+	A	A+
56		Kingston Polytechnic College	A+	A+	A+	A+	A
57		Kingston School of Management & Science	A+	A+	A	A	A+
58		Kingston Teachers' Training College	A+	A+	A+	A+	A+
59		LOKENATH B.ED COLLEGE	A+	A	B+	B+	A+
60		Madhyamgram B. Ed. College	A+	A	A+	A	A+
61		GGDC Dantan II	A+	B+	C	C	B
62		GGDC Keshary	A+	C+	C	B	B
63		GGDC KGP II	A+	A	C+	C	B+
64		GGDC Mohanpur	A+	C	C	C	C+
65	Paschim Medinipur	GGDC Saiboni	A+	C	C	C	C
66		KD College of Commerce & General Studies	A	C	B+	B	B
67		Kharagpur College	A+	B+	B+	A+	A
68		Midnapore College (Autonomous)	A+	C	C	A+	A
69		Sabang Sajankanta Mahavidyalaya	A+	A+	A+	C+	A
70		VTTI College	A+	B+	C	C+	A
71		Arsha College	A	B	C+	C+	A
72		Balarampur College	A	B+	C	B+	A
73		Bandwan Mahavidyalaya	A	B+	C	B+	B+
74		Barabazar Bikram Tudu Memorial College	A+	A	B+	B+	A

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44	Jhargram	Jhargram Raj College (Girls' Wing)	A+	B	C	C	B+
45		Kultiki Teachers' Training Institute of Higher Studies	A+	C+	C	C	C+
46		Manikpara V S Mahavidyalaya	A+	C	C	C	B
47		Nayagram PRM Govt. College	A	C	C	C	B
48		Seva Bharati Mahavidyalaya	A	C	C	C+	B+
49		Sevayatan Sikshan Mahavidyalaya	A+	C	C+	C+	A+
50	North 24 Parganas	Subarnarekha Mahavidyalaya	A+	C+	C	C	C+
51		Barasat College	A	A	A	A+	A
52		Barasat Government College	A+	A	A	A+	A+
53		BARASAT SUBHAS CHANDRA COLLEGE OF EDUCATION	A+	A	A	A	B+
54		Kingston College of Science	A+	A+	B+	B+	B+

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56		Kingston Polytechnic College	A+	A+	A+	A+	A
57		Kingston School of Management & Science	A+	A+	A	A	A+
58		Kingston Teachers' Training College	A+	A+	A+	A+	A+
59		LOKENATH B. ED COLLEGE	A+	A	B+	B+	A+
60		Madhyamgram B. Ed. College	A+	A	A+	A	A+
61		GGDC Dantan II	A+	B+	C	C	B+
62		GGDC Keshlary	A+	C+	C	B	B+
63		GGDC KGP II	A+	A	C+	C	B+
64		GGDC Mohanpur	A+	C	C	C	C+
65		GGDC Salboni	A+	C	C	C	B+
66		KD College of Commerce & General Studies	A	C	B+	B	C+
67		Kharagpur College	A+	B+	B+	A+	B+
68		Midnapore College (Autonomous)	A+	C	C	A+	A
69		Sabang Sajanikanta Mahavidyalaya	A+	A+	A+	C+	A+
70	Purulia	VTT College	A+	B+	C	C+	B+
71		Arsha College	A	B	C+	C+	B
72		Balarampur College	A	B+	C	B+	B+
73		Bandwan Mahavidyalaya	A	B+	C	B+	B+
74		Barabazar Bikram Tudu Memorial College	A+	A	B+	B+	A
75		Chitto Mahato Memorial College	A	B+	C	B+	B+
76		Jagannath Kishore College	A+	B+	B+	B+	A
77		Manbhum Mahavidyalaya	A	B+	C	B+	B+
78		Netaji Subash Ashram Mahavidyalaya	A+	B+	C+	B+	B
79		Ramananda Centenary College	A	B+	C+	B+	A
80		Sitaram Mahato Memorial College	A+	B+	C+	B+	B

National Rural Institutions Sustainability Grading (NRISG)

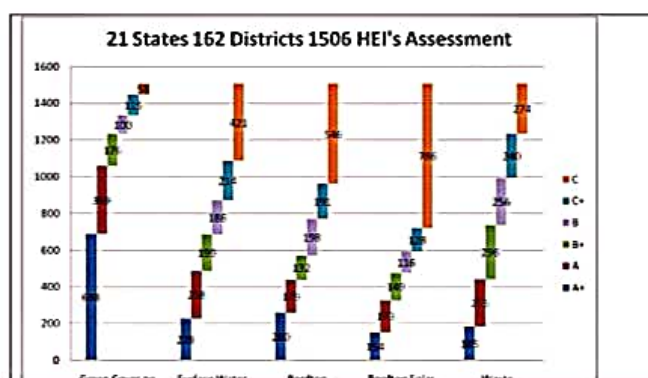
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1.5 NRISG Phase 1 summary of findings

This section highlights the team's approach to problem-solving in various situations throughout the project. Use the field below to outline specific examples and methods you used.

Key Observations:

- The HEIs are representative samples of entire West Bengal as it included State University, Deemed to be Universities, Affiliated Professional Colleges, Arts and Science Colleges which were Self financed as well as Government Aided. Many of the HEIs are MoU Partners of MGNCRE.
- The Action Research Investigators served to their native district who were familiar with the Institutional Social Responsibility and Community Engagement.
- The Visits led to self analysis of NRISG criteria and the HEIs started to look in to incremental improvement in their Extra Curricular Activities.



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1.6 NRISG Phase I Future Directions

MGNCRE will continue to engage with HEIs to assess the Sustainability parameters and encourage students to take up the following activities through student self help groups:

- Focus on Campus to community
- Bring Reusable Containers to Dining Halls and bring Your Reusable's Around Campus.
- Utilize Old School Supplies (Go through previous notebooks and rip out the old pages and use what was left to save paper)
- Compost Your Food Scraps
- Always pack lunch so you don't have to buy anything that may not be in plastic-free packaging
- Be that person that goes around and turns the lights and fans off when not required
- Make the laundry routine ecofriendly and use the Sun to dry the clothes.
- Bicycle and use reusable water bottles.
- Join any food waste programs

Active-learning approaches such as project and problem-based learning, are very well studied pedagogies that have been found to enable all sustainability competences in learners.

2. NRISG Phase II Plans and future Directions

The Phase I assessment activities leads to Phase II which includes:

6. Students Self Help Groups Formed and Functioning
7. SSHG Sales Counter established and operating in campus
8. Functioning Campus MGNCRE Entrepreneurship Development Cell/SESRE/VENTEL Cells
9. Students Self Governed Activities on the Campus started
10. Day long Students Campus Bazaar organised

The directions to the Action Research Investigators are to brief the HEIs on activities 6-10 and initiate formation of Student Self Help Groups (SSHG). The students are appraised on the entrepreneurial activities they can organize as a part of the Sales Counter and Campus Bazaar under the Entrepreneurship Development Cell. In addition the SESRE & Ventel team can venture into solving problems related to campus and community

- The students who work on the organizing team will also benefit greatly, as the planning and execution of such an event involves leadership and coordination.
- A well-organised event can have a great impact in terms of visibility, learning and goodwill.
- The most important learning in management comes from working in a team or a group.

MGNCRE will guide the SSHGs through the Idea, Budget, Planning and Execution.

- Idea - Given the size and the diversity of college students, this phase becomes even more critical. MGNCRE has published 101 Entrepreneurial Ideas for Degree College students to choose from.
- Budget - HEIs student event fund, crowd funding, get sponsors.
- Planning - Deciding on the Schedule and Venue and assign different activities to different teams.
- Execution - Follow up meetings to check status. Market the event in the college.

Once the event is organized and all 10 assessment parameters are scored and graded, the Resource Persons and the Action Research Investigators have to write their Action Research reports. This report based on the outcome achieved at the colleges should render the learning experience and how they dealt with the problems associated with engaging the HEIs on items 6 to 10.

