

# Sammilani Mahavidyalaya



*E.M. Bypass, Baghajatin, Kolkata - 700094. Ph. No. 033 24626869*

*Email ID: principal.sammilani@gmail.com*

## CRITERION - VII INSTITUTIONAL VALUES AND BEST PRACTICES

**QnM: 7.1.2** - The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures.
2. Management of the various types of degradable and non-degradable waste.
3. Water Conservation
4. Green campus initiatives
5. Disabled-friendly, barrier environment

## Index for

### *Circulars and report of activities for the implementation of the initiatives document*

Sl. No.	Name of the Activity	Documents Attached
1.	Alternative sources of energy and energy conservation measures	<p>I. Notice of Governing Body (G.B.) meeting dt. 11.12.2015 and minutes of the meeting regarding installation of solar plant.</p> <p>II. Solar Plant Project handover paper from West Bengal Renewable Energy Development Agency (WBREDA) and 5-year comprehensive maintenance given to the authorised agency.</p> <p>III. Agreement with CESC Limited.</p> <p>IV. Quotation of the vendor dt. 04.08.2022 for AMC for the solar plant.</p> <p>V. Intimation letter from the WBREDA regarding completion of 5-year Comprehensive Maintenance of the Solar Plant.</p> <p>VI. Field service report from the vendor.</p> <p>VII. Energy Audit Report &amp; Certificate</p>
2.	Management of the various types of degradable and non-degradable waste	<p>I. MoU with M/S Redivivus Recyclers Private Ltd. (Vital Waste) for recycling and allied waste management services.</p> <p>II. Certificate of recycling of E-waste.</p>
3.	Water conservation	<p>I. Initial emails from sponsoring company for installing Rain Water Harvesting System (RWHS).</p> <p>II. Notice of the Finance Sub-committee meeting dt. 31.08.2019 and its minutes showing to release fund for installing RWHS.</p> <p>III. Report on RWHS.</p> <p>IV. Environment Audit Report &amp; Certificate</p>
4.	Green Campus	<p>I. Notice of the IQAC and its minutes regarding conducting of quality audits such as green audit, etc.</p> <p>II. Green Audit Report &amp; Certificate, Environment Audit Report &amp; Certificate</p> <p>III. UGC's Advisory on ISO 9001/ Green Certificates/ Audits dt. 26.05.2022.</p> <p>IV. UGC's circular on Green Audit dt. 28.03.2023</p>
5.	Disabled -friendly, barrier free environment	<p>I. Notice of Governing Body (G.B.) meeting held on 06.04.2022 and its minutes regarding installation of CCTV.</p> <p>II. Plan of action of AQAR 2021-22 regarding installation of CCTV in the library.</p>



# Sammilani Mahavidyalaya

( NAAC ACCREDITED )

[AFFILIATED TO CALCUTTA UNIVERSITY]

BAGHAJATIN STN./ E. M. BY PASS  
KOLKATA - 700 094

Office Phone : 2452-6865

Library : 2436-2919

E-mail :

info@sammilanimahavidyalaya.org

Ref. No.....

Date..... 05-12-2015

## NOTICE - 2 .

A meeting of the Governing Body will be held on 11.12.15 to transact the following agenda in the Principal's Chamber at 5.00 p.m.

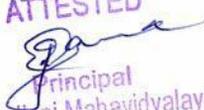
### AGENDA:

1. Confirmation of a resolution by circulation of the Governing Body meeting held on 19.11.2015.
2. Formation of Academic Sub-committee, Finance Sub-committee, Purchase Sub-committee.
3. a) Introduction of Botany General in the Science Stream from the coming academic session, 2016-2017.  
b) Creation of new full-time teaching post.
4. Agreement with Axis Bank, Baruipur Branch regarding collection of monthly student's fees as well as their services during the admission procedure in 2016.
5. Promotion of eleven (11) members of the teaching staff under Career Advancement Scheme (CAS) of U.G.C.
6. a) Change of Internal Quality Assurance Cell (IQAC) co-ordinator.  
b) Preparation of Self Study Report (SSR) in respect of NAAC accreditation.
7. A report from Principal regarding the construction of new building by PWD.
8. a) Holding the Students' Election in 2015.  
b) Arrangement of fund for the repair of Gymnasium apparatus used by the students.

Misc

S. Palchaudhuri  
[DR. S. PALCHAUDHURI]

ATTESTED

  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



# Sammilani Mahavidyalaya

( NAAC ACCREDITED )

[AFFILIATED TO CALCUTTA UNIVERSITY]

BAGHAJATIN STN./ E. M. BY PASS  
KOLKATA - 700 094

Office Phone : 2462-6868

Library : 2436-2919

E-mail :

info@sammilanimahavidyalaya.org

Date

Ref. No.....

Minutes of the Governing Body held on 11.12.2015

Misc:

- i) Resolved unanimously that as advised by the hon'ble President Shri Manish Gupta himself that the Principal be requested to apply immediately to Shri Manish Gupta, Hon'ble Minister-in-charge, Department of power & non-conventional Energy sources, Government of West Bengal, for immediate installation of solar panels on the roof-top of the college building to generate sufficient electricity to meet the daily requirement of about 40 kw by the college and also for subsidising the expenditure to be incurred in this regard from Government funds.
- ii) Resolved unanimously that a Girl's Common Room be created immediately in the enclosure adjacent to the Ladies' washroom in the ground floor of the main building with necessary rearrangement and furnishing, and also with provisions like Chess boards and a carom board. The Principal be authorized to take necessary steps regarding this matter.
- iii) Resolved unanimously that a row of urinals be provided just beside the Students' Union building for the convenience of male students and on the suggestion of the hon'ble President, Sri Swarup Ghosh, Government nominee and also the Chairman of Borough XII of Kolkata Municipal Corporation (KMC) be entrusted with the responsibility to implement the project under Sulabh Sauchalaya scheme of the Kolkata Municipal Corporation (KMC).
- iv) Resolved unanimously that the room located at the south-west corner of the college premises and supposed to be known as the Cheap Store which has been occupied by Sri Barun Ghorai, Peon, be immediately vacated with serving necessary notice on Sri Ghorai to hand over the keys of the said room to the Principal forthwith.
- v) Resolved unanimously that the Oriental Bank of Commerce, Sammilani Mahavidyalaya Branch be immediately served a notice regarding furnishing of fact about its agreement with its generator service provider agency which has been purportedly doing business with the Bank by occupying college space without obtaining any permission in this regard from the college authority. The Principal be authorized to pursue the matter on an urgent basis

The meeting ended with a vote of thanks to the Chair as there were no other agenda to discuss.

ATTESTED  
*[Signature]*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

Read and Confirmed  
*[Signature]*  
B. D. Gupta



**PROJECT HANDOVER**

ORDER NUMBER	WBREDA/53(2013)PART-II/57 DATED 9.6.2015 AND WBREDA REF NO WBREDA/59(2013)/Part-II/480 DATED 15.01.2016
PROJECT NAME AND REFERENCE	DESIGN SUPPLY INSTALLATION TESTING AND COMMISSIONING INCLUDING 5 YEARS COMPREHENSIVE MAINTNENANCE FOR 10 kWp GRID TIED SOLAR PV POWER PLANTS AT VARIOUS SCHOOLS, INSTITUTIONS AND ORGANIZATIONS AT VARIOUS LOCATION OF WEST BENGAL ON TURNKEY BASIS

This to certify that we Pulse Power Technologies Pvt Ltd, 502C Kamalalaya Centre, 156A Lenin Sarani, Kolkata 700013, have successfully designed, installed and commissioned a 10X2 kWp Solar Photo Voltaic Power plant at Sammilani Mahavidyalaya , Baghajatin, EM Bypass Kolkata - 700094.

The system has been running fine for the last 30 days or more and we herewith handover the system to SAMMILANI MAHAVIDYALAYA and will continue to provide periodic maintenance as per the above mentioned order.

Dated: 30/03/16

For Pulse Power Technologies Pvt Ltd	For Sammilani Mahavidyalaya	For West Bengal Renewable Energy Development Agency
	<p><i>S. Balchandra</i> 30/3/16</p> <p>Principal Sammilani Mahavidyalaya E.M.Bypass, Baghajatin Kolkata-700 094</p>	
Authorized Signatory Sign with Date	Authorized Signatory Sign with Date	Authorized Signatory Sign with Date

Office: 502C Kamalalaya Centre, 156 A Lenin Sarani, Kolkata 700013  
Ph: 033 2215 4705/0301, Fax: 033 2225 1273  
Email:saikat@pulsepower.net

ATTESTED  
  
 Principal  
 Sammilani Mahavidyalaya  
 E.M. Bypass, Baghajatin  
 Kolkata-700 094



पश्चिम बंगाल पाश्चिम बंगाल WEST BENGAL

97AA 255420

THIS **AGREEMENT** (hereinafter referred to as the "Agreement") is entered at Kolkata on the 11<sup>th</sup> day of March 2016 by and between:

**CESC Limited** a Company within the meaning of Section 2 (20) of The Companies Act, 2013 and a Distribution Licensee under Section 14 of The Electricity Act, 2003, having its Registered Office at CESC House, Chowringhee Square, Kolkata - 700001 (hereinafter referred to as "CESC", which expression, unless excluded by or repugnant to the context or meaning thereof, shall be deemed to include its successors and assigns) of the **FIRST PART.**

ATTESTED

*Jana*  
Principal...  
Sammitani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

AND

**SAMMILANI MAHAVIDYALAYA**, at Baghajatin Station, E.M. By Pass, Kolkata - 700094, being the developer of Roof-top Solar PV source (hereinafter referred to as the "**Consumer**", which expression, unless excluded by or repugnant to the context or meaning thereof shall be deemed to include its successors and permitted assigns) of the **SECOND PART**.

**WHEREAS**

- A. Consumer is in the process of installing 2 X 10 KWp Solar PV source at Baghajatin, E.M. By Pass, Kolkata – 700 094.
- B. Consumer is a Medium Voltage consumer of CESC having consumer number 86001554001.
- C. Consumer intends to interconnect the above Solar PV Source at its medium voltage distribution network available within the premises and run in parallel with CESC's Distribution System and accordingly applied to CESC for such interconnection.
- D. In terms of the West Bengal Electricity Regulatory Commission (Cogeneration and Generation of Electricity from Renewable Sources of Energy) Regulations, 2013 (hereinafter referred to as the "**Renewable Sources of Energy Regulations**"), CESC agrees to allow interconnection and parallel operation of the Solar PV Source with CESC's Distribution System on the terms and conditions as mentioned in this Agreement.

ATTESTED  
*Jana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

IN WITNESS WHEREOF these presents have been entered into the day,  
month and year first above written.

SIGNED AND DELIVERED for and on behalf of  
CESC Limited

by its Constituted Attorney

in the presence of :

  
Manager (South)  
South Regional Office  
CESC Limited

Signature : *Sysanta Datta*

Occupation : *Service*

Address : *6, Mandiville Gardens,  
Kolkata - 700 019*

SIGNED AND DELIVERED for and on behalf of

.....  
by its Constituted Attorney

in the presence of :

*S. Palchoudhury*  
11.03.16  
Principal  
Sammilani Mahavidyalaya  
E. M. By Pass, Baghajatin  
Kolkata-700 094

Signature : *Rishom*

Occupation : *Service*

Address : *Baghajatin, E.M. By Pass, KOL-94*

WITNESSES :

1)

ATTESTED  
*Pana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



Quotation # PPT-QT 2223/01

To,  
The Principal,  
Sammilani Mahavidyalaya  
1 M Bypass, Kolkata.  
Pincode - 700094

Re: 20kWp Grid connected Rooftop Solar PV System

Sub: **Quotation for Annual Maintenance of 20kWp Solar Power Plant**

Respected Madam,

The systems installed in your institution are as follows

1. Type - On Grid
2. PV capacity- 10 kWp
3. PV Module - 40Nos., Soya Solar, 250Wp 60cells
4. Inverter - 2 Nos., Kaco new energy GmbH., Powador 12 TL3, Serial Nos 12.0TL01517195, 12.0TL01517194,
5. AJB (2nos) with DC SPD and fuse
6. HP (2nos) with AC SPD
7. GIP (2nos) with SPD MCB
8. Net Meter/ Check Meter (2nos)

Kindly find the details of the Annual Maintenance agenda for your solar power plant-

- Annual maintenance of 20kWp Solar Power Plant for a contract period of 1 year.
  - Attending all breakdown calls when needed.
  - Preventive maintenance as per schedule
  - No spares are included in the AMC Contract.
  - Spares if required will be charged extra as per availability.
  - Events Such as natural causes or natural calamities will not be under the scope of the contract
- The Cost of the AMC Contract will be for 1 year will be Rs 42,000. GST will be charged 18% or as applicable.

Payment terms - 100% advance

Waiting for your valuable order

Thanking You

Your Sincerely,

Pulse Power Technologies Pvt Ltd.

24 Canal South Road  
Kolkata  
West Bengal- 700015

**ATTESTED**  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



1  
17  
Pay Rs 37760/- to Galilei Solar Audia Pvt. Ltd  
for payment of AMC charge for the 1st year,  
for maintenance of Solar Panel under a contract of 5 yrs

Shukraborty

WEST BENGAL RENEWABLE ENERGY DEVELOPMENT AGENCY 22/9/22

(An Organisation of Deptt. of NRES, Govt. of West Bengal)

Bikalpa Shakti Bhawan, Plot no.: 11/10, EP & GP Block, Sector-V,

Electronics Complex Salt Lake, Kolkata - 700091

Phone: 033-23575038 / 23575348 / 23576568, Telefax: 033-23575037/6569

Memo No. WBREDA /53(2013) /Part II / 469 (1-20)

Date: 04.04.2022

To  
Principal  
Sammilani Mahavidyalaya,  
Baghajatin Station,  
E.M. Bye Pass,  
Kolkata-700094

Subject: Completion of five years Comprehensive Maintenance of the 2X10 kWp Rooftop Solar PV  
power Plant at your College

Sir,

You are aware that Rooftop Solar PV power Plant of array capacity 2 x 10 kWp had been install and  
commissioned on 30-03-2016 at your College

As per terms of the contract, WBREDA was responsible for trouble free operation of the plant for a  
period of five years from the date of commissioning through the executing agency namely, M/S Pulse  
Power Technologies Pvt.Ltd.

In this connection it is to inform you that the five years maintenance period has been expired on 30-03-  
2021

Now you are requested to make a suitable arrangement for trouble free operation of the PV Power Plant.

The details address of the executing agency is given below for your reference

M/S Pulse Power Technologies Pvt.Ltd.  
502 C Kamalalaya Center,  
156A Lalin Sarani,  
Kolkata-700013  
Mobile No: 9836565132, Prsun Neogi

Yours faithfully

22/04/22

( P.C Routh )

Superintending Engineer

ATTESTED

*[Signature]*

Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

Quote Ref:	GSI/2022-23/119	Dated:	26.05.2022
Customer Name & Address	Sammilani Mahavidyalaya Baghajatin, EM Bypass, Kolkata. West Bengal 700094	Customer Installation Address	Baghajatin, EM Bypass, Kolkata. West Bengal 700094
System Size	20kWp	System Type	Grid Connected
Inverter Make	KACO new energy GmbH	Module Make	Sova Solar
Total Number of Inverters	2	Module Quantity	80
Inverter Ratings	<b>Powador TL3 Series</b> 12.0TL01517195 12.0TL01517194	Module Wp Rating	250Wp
Plant Installation Date approx..	15.02.2016	Warranty Expiry Date approx.	14.02.2021

### OFFER FOR ANNUAL MAINTENANCE CONTRACT

Dear Madam,

**Kind Attention: Ms. Sharmila Chakroborty – The Principal of Sammilani Mahavidyalaya**

Please refer to our discussions with reference to the same please find enclosed the offer for maintenance of your solar power plant.

Please note the warranty of your system has expired. Hence, we are proposing you a maintenance Offer.

**AMC Contract :**

We are proposing you the offer with two Options:

1. AMC Contract for 1 year.
2. AMC Contract for 5 year.

**1. Option A**

**AMC contract for 1 year will include the following**

1. Attending all break down calls – Next Business Day Support
2. Rectification within 2 working days from the date of attending the call
3. Inverters if broken will either be repaired / replaced with inverter of equivalent capacity. If the original inverter is not repairable then the replacement inverter will become customer property and original inverter will become our property
4. Problems with modules will be identified and we will assist with the warranty claim from the manufacturer and in the interim we will change the stringing to minimize generation loss.



galilei solar India Pvt. Ltd

Principal  
Sammitani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

ATTESTED

*Gana*  
Principal  
Sammitani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

5. SPDs – For one incident in a year (1 year contract period) will be replaced free of cost both AC & DC SPS
6. Cables, Fuses, MCBs & MCCBs are consumables and in case they burn the same will have to be repurchased by the customer. However we will remain responsible for the laying and / or re-installation of these items
7. Civil repairs will be in our scope however if the Module mounting structure becomes unusable then the same will have to be discussed with customer and appropriate steps taken to rectify the same.
8. Each Quarter the customer is eligible for a Preventive Maintenance whose scope will include
  - a. Who System Cleaning including modules, inverters and accessories
  - b. System checkup including hot spot detection with thermal gun
  - c. Generation data collection – to be shared with customer
9. Force Majeure is applicable. For damages due to lightning strikes / cyclones / Earth quakes / Fire / Over voltages from Grid side etc. are not covered under the scope of this contract. For damages arising out of these all components and goods will be to customer account we will provide the service support for rectification under scope of this contract.

**Please note that expected generation from your Solar Power Plant is 28,000kWh / year which translates to approximately Rs 2.80,000 in savings per year.**

The total cost for the AMC contract will be **Rs 36,000.00 + 18% GST** per annum payable in advance.

**We hope that you find our offer correct and complete in all respects, looking forward to your valued order.**

## **2. Option B**

### **AMC Contract for 5years:**

- The Scope of The AMC will be as same as in the AMC Contract for 1year.
- There will be an increase of 5% in the Cost of the AMC every year.
- The payment needs to be done every annum payable in advance.

### **AMC contract for 5 years will include the following-**

1. Attending all break down calls – Next Business Day Support
2. Rectification within 2 working days from the date of attending the call
3. Inverters if broken will either be repaired / replaced with inverter of equivalent capacity. If the original inverter is not repairable then the replacement inverter will become customer property and original inverter will become our property
4. Problems with modules will be identified and we will assist with the warranty claim from the manufacturer and in the interim we will change the stringing to minimize generation loss.
5. SPDs – For one incident in a year (5 year contract period) will be replaced free of cost both AC & DC SPS
6. Cables, Fuses, MCBs & MCCBs are consumables and in case they burn the same

**KACO** 

galilei solar India Pvt. Ltd

Plot No. 10, Sector 10, Phase 1, Gurgaon, Haryana  
Gurgaon, Haryana - 122002  
Phone: +91 9899 999999  
Email: info@galilei.com

Indus Ind Bank Limited  
Sunderbani Branch

ATC No. 250002862479

Branch Type: Cash Credit

ATC Code: 28100990

ATC Branch: 5006-1

ATC Code: 5006579

**ATTESTED**

*Jana*

Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

will have to be repurchased by the customer. However we will remain responsible for the laying and / or re-installation of these items.

7. Civil repairs will be in our scope however if the Module mounting structure becomes unusable then the same will have to be discussed with customer and appropriate steps taken to rectify the same.

8. Each Quarter the customer is eligible for a Preventive Maintenance whose scope will include

- a. Who System Cleaning including modules, inverters and accessories
- b. System checkup including hot spot detection with thermal gun
- c. Generation data collection – to be shared with customer

9. Force Majeure is applicable. For damages due to lightning strikes / cyclones / Earth quakes / Fire / Over voltages from Grid side etc. are not covered under the scope of this contract. For damages arising out of these all components and goods will be to customer account we will provide the service support for rectification under scope of this contract.

**Please note that expected generation from your Solar Power Plant is 28,000kWh / year which translates to approximately Rs 2,80,000 in savings per year. So for 5 years the expected generation translates to approximately Rs1,400,000.**

The AMC Charges has been described below-

Years	AMC Charges(5% increase in the AMC Charges from the 2 <sup>nd</sup> year)	GST
1 <sup>st</sup>	Rs. 32,000	+18% GST Extra = 37,760
2 <sup>nd</sup>	Rs 32,000+5% = Rs 33,600	+18% GST Extra
3 <sup>rd</sup>	Rs 33,600+5% = Rs 35,280	+18% GST Extra
4 <sup>th</sup>	Rs 35,280+5% = Rs 37,044	+18% GST Extra
5 <sup>th</sup>	Rs 37,044+5% = Rs 38,896	+18% GST Extra

- **Please note that the inverters are now out of warranty and any break down can lead to significant generation loss. We urge you to please close the contract as early as possible.**

For Galilei Solar India Pvt Ltd

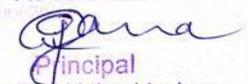
Sumita Paul  
Service Co-Ordinator

K A C O 

galilei solar India Pvt. Ltd

Industrial Bank Limited  
Kolkata Branch  
A/c No: 150010062473  
Branch Name: Cash Credit  
IBBL Code: IN000000000000  
IBBL Code: IN000000000000  
IBBL Code: IN000000000000

ATTESTED

  
Principal

Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



# GALILEI SOLAR INDIA PVT LTD

## FIELD SERVICE REPORT

CUSTOMER NAME	Sammilani Mahavidyalaya
CUSTOMER ADDRESS	Baghajatin , EM Bypass,, Kolkata, West Bengal, 700094
ENGINEER NAME	Sudipta Ghosh Uttam Ghosh
CALL START DATE AND TIME	08-Oct-2022 11:00:00
CALL END DATE AND TIME	08-Oct-2022 14:38:57
<b>MODULE CHECKUP</b>	
Was bypass diode checking required?	No
Number of bypass diodes replaced	0
Thermography done?	Yes
Remarks about Thermography (if any)	Ok
Module degradation noticed?	No
Remarks about PV modules (if any)	Ok
Modules Cleaned?	Yes
<b>INVERTER CHECKUP</b>	
Inverter Thermography done?	Yes
Inverter Software Updated?	Yes
Inverter Cleaned?	Yes
Any specific remarks about the Inverter?	
<b>BALANCE OF SYSTEM CHECKUP</b>	
Quality of DC cabling	Rectification not Required
Module Structure Quality	Rectification Not Required
Tightness of MMS nuts and bolts	Tight
Tightness of Module nuts and bolts	Tightening Not Required
Rectifications required in AJB?	No
Rectifications required in ACDB?	No
Any faults detected in Thermography?	No
Calculated Earth Resistance	2.10
Details of Work Done	All PV modules are cleaned. DC cable dressing completed. Inverter is now repaired. Nand issue resolved. SW updated. GI stripe at module side is get damaged. need to rectify.
CUSTOMER REMARKS	
CUSTOMER SIGN OFF	

**ATTESTED**  
  
 Principal  
 Sammilani Mahavidyalaya  
 E.M. Bypass, Baghajatin  
 Kolkata-700 094

INVERTER DETAILS	
Inverter Serial Number	Work Done
12.0TL01517195	Nand issue resolved in both the inverter. Software updted to 3.32. System is working properly.
STRING DETAILS	
Voc	639.00,640.00,638.00,639.00
Isc	5.30,5.10,5.20,5.20
String Fault?	No,No,No,No
Matches Theoretical Values?	Yes,Yes,Yes,Yes
Remarks if Any!	Ok,Ok,Ok,Ok

502 Kamalalaya Centre, 156A Lenin Sarani, Kolkata 700013 Email: saikat@galileosolar.in Ph: 033-22150301 www.galileisolar.in



ATTESTED  
*Jana*  
Principal  
Sammirani Mahavidyalaya  
E.M. Bypass, Baghatia  
Kolkata-700 094



# ENERGY AUDIT REPORT FOR SAMILLANI MAHAVIDYALAYA



## Elion Technologies & Consulting Private Limited

307, 3<sup>rd</sup> Floor, DDA Lal Market, H-Block  
Vikas Puri, New Delhi-110018

ATTESTED  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Table of Contents

Content	Page No.
Acknowledgement	3
Site Information	4
Executive Summary	5
Chapter-01 Introduction	7
Chapter-02 Energy Consumption & Analysis	9
Chapter-03 Lighting System	11
Chapter-04 Pumps and Motors	13
Chapter-05 Air Conditioning	14
Conclusion	15
Disclaimer	16

ATTESTED  
*Pana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



---

## Acknowledgement

Elion Technologies and Consulting Pvt Ltd places on record it's thanks to Sammilani Mahavidyalaya for entrusting the task of conducting energy audit study.

We acknowledge with gratitude the whole hearted support and cooperation extended by all team members while carrying out the study.

ATTESTED  
*Jana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

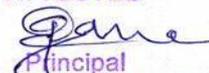
---



## Site Information

Name of College	Sammilani Mahavidyalaya
College Address	Eastern Metropolitan Bypass, Baghajatin, Kolkata, West Bengal, 700094
Execution Partner	ELION Technologies & Consulting Pvt Ltd
Communication Address	307, 3rd Floor DDA Lal Market H-Block Vikas Puri, New Delhi-110018
Date of Audit	17 <sup>th</sup> March 2022
Year of Audit	2021 - 2022
Audit Participants	Dr. Sharmila Chakraborty – Teacher In Charge Prof. Debashish Roy – Coordinator of Quality Audits Dr. Srikanta Malakar – IQAC Coordinator Dr. Ananda Mukherjee – Associate Professor, Commerce Prof. Uttam Kumar Ghosh – Associate Professor, Commerce Prof. Lupsy Mohanty Roy – Assistant Professor, Pol. Sc. Prof. Brototi Mondal – Assistant Professor, Computer Sc. Shri Rajesh Das (Electrician) Premanshu Purkait and Tarapada Das – Cleaning Agency appointed personnel
Major Electrical Equipments	<ul style="list-style-type: none"><li>- Air Conditioners</li><li>- Lighting</li><li>- Fans</li><li>- Motors and Pumps</li></ul>

ATTESTED



Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Executive Summary

Sammilani Mahavidyalaya was established on 12th of December, 1996 by the initiative of some academic entrepreneurs, with a definite objective to impart knowledge and skill to the young generation of the locality. Along with those academicians, enthusiasts from all sections of the society also rendered their active co-operation in this selfless venture. Initially the college started functioning from a local secondary school, Santoshpur Vidyamandir (Boys) and the classes were held in the evening. Within a record period of only seven months, the new building was constructed and the college shifted to its present address. On 5th June 2003, UGC granted the college the status to receive financial assistance under the rule U/S 12(B) of the UGC Act. 1965. The college has been accredited by the National Assessment and Accreditation Council in 2005 and awarded Grade 'B' and Grade 'B++' in the year 2016. It has also been assessed by the Department of Higher Education, Govt. of West Bengal in January, 2010 under the State Level Assessment Programme (SLAP). The college, which started with only three students, is now bustling with more than 2000 students in the different departments of Arts, Science and Commerce faculties. The active and moral support of Sri. Buddhadeb Bhattacharjee, former Chief Minister of West Bengal, the unyielding devotion of Sri Kanti Bhushan Ganguly, former Minister of Sunderban Affairs, Govt. of West Bengal (and also the erstwhile Secretary of the Preparatory Committee of the college), the sincere dedication and guidance of Late Prof. Ramaranjan Mukhopadhyay and Prof. K.P. Majumder and the efforts and services rendered by all those persons who are associated with the college in one way or the other have helped the college to attain present position as one of the leading academic institutions in the locality. Today the college is on the fast track of progress and success. Yet, there are many miles to tread before our dream becomes true, before our vision materialises into reality.

### List of programs offered by the institute:

Following are the list of undergraduate courses offered by the institute-

Three year degree programmes in:

**A. Arts**

History, Geography, Political Sciences, Sanskrit, Education, English, Bengali, Philosophy, Economics.

**B. Science**

Computer Science, Microbiology, Physics, Chemistry, Zoology, Botany, Mathematics.

**C. Commerce**

ATTESTED

*Jana*  
Principal

Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



**List of the Facility Building:**

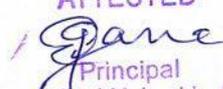
Total Area: 8093 sq.mt (2 Acre)

Green Area: 5417.25 sq.mt

Building Name	Areas	Number of Floors
Main Block including West Block	1103 sq. mt.	4
West Block	484.4 sq. mt.	3
New Block	559 sq. mt.	2
Annex building	197 sq. mt.	2
Space among the blocks	332.35 sq. mt.	

Electricity is supplied by CESC Limited and for backup power supply DG Set is available of 34KVA.

The energy audit included detailed data collection, analysis of data and identification of specific energy saving proposals.

ATTESTED  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Chapter 01: Introduction

Sammilani Mahavidyalaya evinced interest in availing the services of Elion Technologies and Consulting Pvt Ltd for conducting energy audit of their premises.

Elion Technologies and Consulting Pvt Ltd team conducted the detailed Energy audit on 17<sup>th</sup> March 2022.

This report is on the energy audit carried out Sammilani Mahavidyalaya. The detailed energy audit comprised the following activities:

- Data collection of power consuming equipments.
- A brief session on energy management was conducted to seek more inputs from the personnel engaged in operation and maintenance of electro mechanical services.
- Analysis of collected data.
- Discussion with the officials on the identified proposals.
- Discussion and reporting of the findings of energy audit with the team members and the management staff.

All the identified energy savings proposals have been discussed with the executives concerned before finalizing the projects.

The contents of the report are based solely on the data provided by Sammilani Mahavidyalaya officials during the energy audit.

The management should implement the suggestions made in the report after verifying requisite safety aspects.

### Methodology for Energy Audit:

The following is a list of general procedure and information undertaken during the energy audit:

- General information of the site.
- Baseline energy description.
- Past energy consumption bills which includes electricity bills.

**ATTESTED**  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



- On site data collection
- Energy analysis of different sectors.
- Recommendation of energy conservation measures.

The primary goal of the energy audit was to identify sources and areas of potential energy savings and cost saving throughout the college premises by measures of optimization, replacement, retrofitting, and on the other hand, to also provide recommendations on operational and maintenance practices improvements.

**ATTESTED**

*Gana*

Principal

Sammilani Mahavidyalaya

E.M. Bypass, Baghajatin

Kolkata-700 094

---



## Chapter 02: Energy Consumption Details

The main areas of energy consumption as observed during the audit are as follows:

- Air Conditioners
- Lighting & Fans
- Motors & Pumps
- Desktops & Printers

The main sources of energy to meet the required consumptions are as follows:

- Electricity supply from Power Distribution Company.
- DG set.
- Solar Power Plant of capacity 20KW.

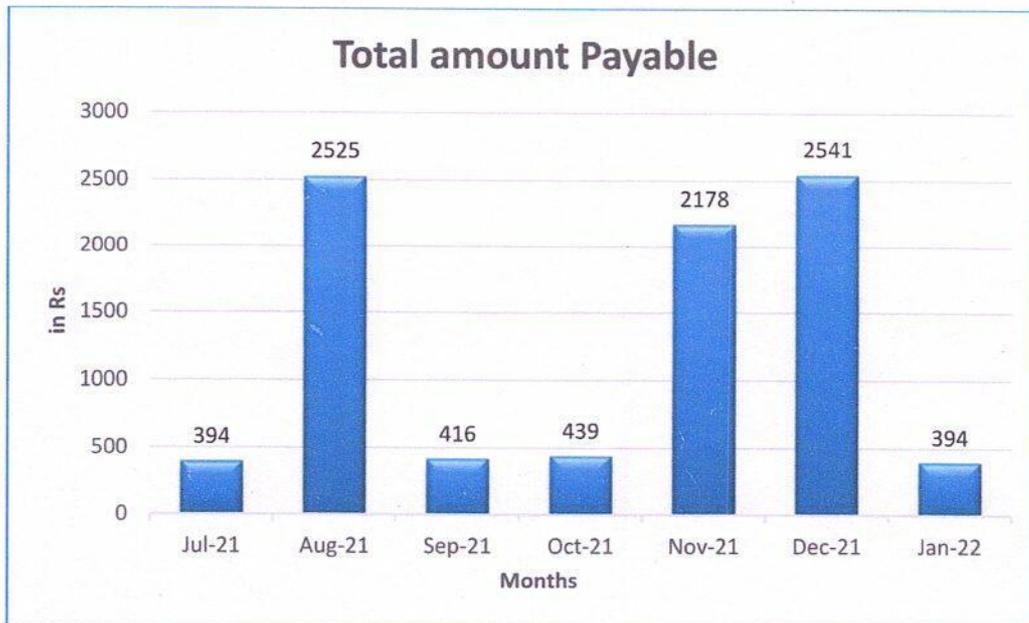
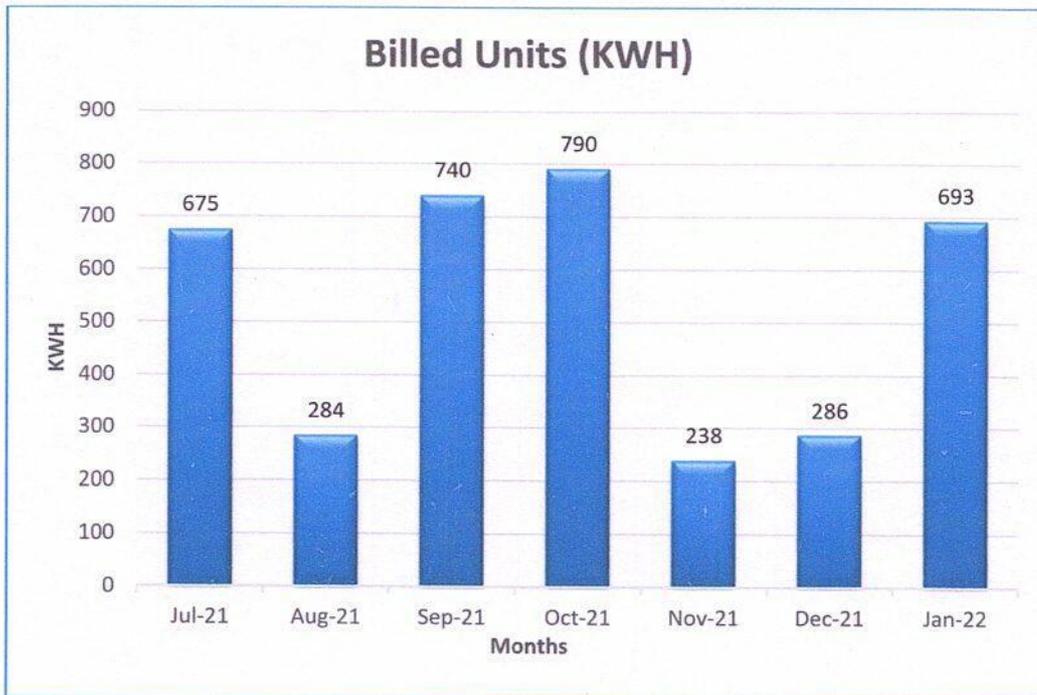
Consumption pattern for energy is given below:

Months	Billed Units (KWH)	Total amount Payable
Jul-21	675	394
Aug-21	284	2525
Sep-21	740	416
Oct-21	790	439
Nov-21	238	2178
Dec-21	286	2541
Jan-22	693	394

ATTESTED

*Jana*  
Principal

Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



**ATTESTED**  
*[Signature]*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Chapter 03: Lighting System

Conventional Fluorescent Tube lights, LED lights and LED Tubelights are installed around the campus.

Type of Light	Location	Rating	Quantity	Number of Hours being turned on
LED Tubelight	Main Gate	50W	2	4
LED Tubelight	Classroom	20W	120	4
LED Tubelight	Laboratory	20W	87	6
LED Tubelight	Library	20W	25	6
LED Tubelight	Annex buildings (canteen, Union room, Gym, NSS, post office)	20W	20	4
LED Tubelight	Others (Principals room, offices, stair cases, corridors, Bursar's room, attached toilets and others)	20W	46	6
Conventional Tube/Tubelight	Main Gate	NIL	NA	NA
Conventional Tube/Tubelight	Classroom	40W	NA	6
Conventional Tube/Tubelight	Laboratory	40W	123	6
Conventional Tube/Tubelight	Library		Nil	
Conventional Tube/Tubelight	Annex buildings ( canteen,Union room,Gym,NSS,post office)	40W	1	5
Conventional Tube/Tubelight	Others (Principals room, offices, stair cases, corridors, Bursar's room, attached toilets and others)		Nil	6

ATTESTED

*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



**Observation:**

Most of the lighting used are LED lights. Conventional lights are also used at various locations. It was informed that college is in process of replacement of old conventional lights with energy efficient LED lights.

**Recommendation:**

- Sticker to SWITCH OFF LIGHT and SAVE ENERGY to be displayed.
- Regular cleaning of light fixtures to be done to get maximum lux level.



ATTESTED

*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Chapter 04: Pumps and Motors

Submersible pumps and other pumps are used for pumping of water. The details of the pumps and motors are given below:

- Submersible pump used for ground water pumping.
- BE Pump Hikson.
- NEC motor.

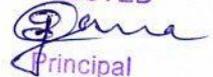
### Observation:

All pumps and motors are functioning properly and well maintained.

### Recommendation:

Proper maintenance and upkeep of pumps and motors to be done.

ATTESTED



Principal

Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Chapter 05: Air Conditioning

Windows and Split AC's are used in facility for air conditioning. Temperature maintained is 26 degree C which is a good practice. Following is the list of ACs present in the campus:

Type of Air Conditioners	Capacity in Ton	Whether any star rating available	Set temperature	Running Hours	Whether AC performance is satisfactory Yes/No
Split Air conditioner/Carrier/Smart Classroom, Laboratories (Math, Commerce, Physics, Comp.Sc, BOOST, Chemistry, Geography), IQAC, Library*, Principal's Chamber, Office I&II.	1.5, 2	3	26	4 hrs	Yes

### Observation:

- All air conditioners are found to be functioning properly and well maintained.

### Recommendation:

- All doors to be kept closed while using the air conditioners and regular annual service of AC's should be carried out.
- Set Temperature of Air Conditioner shall be maintained at 26°C.
- A reduction in 1°C set point temperature, the energy cost comes down by 5%. By carefully selecting the seasonal temperature in different areas as per requirement considerable saving on account of power consumption can be achieved.
- Whenever Air Conditioners are replaced in future, BEE 5 star rated air conditioners shall be considered which are energy efficient.

ATTESTED  
  
 Principal  
 Sammilani Mahavidyalaya  
 E.M. Bypass, Baghajatin  
 Kolkata-700 094



## Conclusion

The energy audit conducted at Sammilani Mahavidyalaya has revealed that the college is doing good work in having sustainable supply of energy. The Campus has a fully functional solar power plant. To further reduce energy consumption, the college should implement the recommendations made in report.

**End of Report**

ATTESTED  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

## SAMMILANI MAHAVIDYALAYA

E.M. Bypass, Baghajatin, Kolkata, West Bengal

Energy Audit Report No: ENEA17032022



## Elion Technologies & Consulting Private Limited

Registered Office:

307, 3rd Floor, DDA Lal Market, H-Block

VikasPuri, New Delhi-110018

Phone No: 011-28541888, 9013890526

Email: support@elion.co.in

Website: www.elion.co.in

### DISCLAIMER

All information contained in this report is based on the data available and observations made during the audit. All recommendations made in this audit report should be duly evaluated by the management before implementation.

Elion Technologies and Consulting is not liable for any damages incurred by the organization through implementation of the energy saving proposals either to it or to any third party getting impacted by the implementation of this report.

No warranty, guarantee, or representation, either expressed or implied, is made as to the correctness or sufficiency of any representation contained herein. This report may not address every possible loss potential, violation of any laws, rules or regulations, or exception to good practices and procedures. The absence of comment, suggestion, or recommendation does not mean the property or operation(s) is in compliance with all applicable laws, rules, or regulations, is engaging in good practices and procedures, or is without loss potential. No responsibility is assumed for the discovery and/or elimination of hazards that could cause accidents or damage at any facility that is subject to this report.

ATTESTED



Principal

Sammilani Mahavidyalaya

E.M. Bypass, Baghajatin

Kolkata-700 094

# Elion Technologies & Consulting Pvt Ltd

## Certificate

This is to certify that Energy Audit at Sammilani Mahavidyalaya, Eastern Metropolitan Bypass, Baghajatin, Kolkata, West Bengal, 700094 was carried out for the year 2021 - 22.

It is found that sustainable measures are taken by the college in reducing energy consumption. In house solar power plant is installed.

ATTESTED

*Rana*  
Principal

Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



Audit Officer

Audit Date – 17/03/2022  
Valid Up to – 16/03/2023

Certificate Number  
EA/2022/SM



पश्चिम बंगाल पश्चिम बंगाल WEST BENGAL

70AB 196611

### Memorandum of Understanding

This Memorandum of Understanding (hereinafter called as "MOU") is made and executed at 20<sup>th</sup> day of June 2022 by and between;

**Sammilani Mahavidyalaya** located at **E.M. Bypass, Baghajatin, Kolkata - 700094**, acting through its Authorized Signatory **Dr. Sharmila Chakraborty** (hereinafter referred to as "**The Institution**", which expression unless repugnant to the context or subject shall mean and include its successors, representatives, assigns, administrators and executors) of the party of **FIRST PART**.

AND

**M/s. Redivivus Recyclers Private Limited**, a company incorporated under the provisions of Companies Act, 1956 having its registered office at **11, Allenby Road, Kolkata 700020** acting through its Authorized Signatory **Mr. Pranav Goel** duly Authorized by board (hereinafter referred to as "**Vital Waste**", which expression unless repugnant to the context or subject shall mean and include its successors, representatives, assigns, administrators and executors) of the party of **SECOND PART**.

The expressions "**The Institution**" and "**Vital Waste**" are hereinafter collectively referred to the 'Parties' and individually as the 'Party'.

ATTESTED  
*Gane*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

*Sharmila Chakraborty*  
Teacher-In-Charge  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin.



027489

No..... Sold to Vital waste

Address..... 11, Allenby Rd

Rs..... ₹ 200

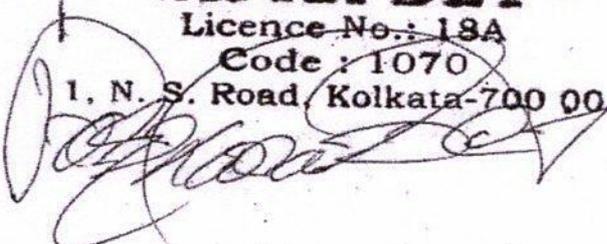
Date..... 23 MAY 2022

**SIPRA DEY**

Licence No.: 18A

Code : 1070

1, N. S. Road Kolkata-700 001



ATTESTED

Gana  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 034



**WHEREAS**

- A. **The Institution** is an undergraduate college affiliated to the University of Calcutta in Kolkata, West Bengal.
- B. **Vital Waste** is engaged in providing Recycling and Waste Management services for dry recyclables such as Paper, Cardboard, Plastic, Metal and E-waste in India.
- C. **Vital Waste** approached **The Institution** to provide recycling and allied waste management services for its premises in Kolkata and **The Institution** agreed to appoint **Vital Waste** for providing the aforementioned services on the following terms and conditions as set herein.

**NOW THE PARTIES MENTIONED HEREIN HAVE WITNESSETH AND HEREBY DECLARE, UNDERTAKE AND AGREE AS UNDER:**

**ARTICLE-1**  
**DEFINITIONS**

- 1.1 Unless otherwise clearly required by the context, the following terms shall have the respective meanings as defined below:
- (a) "**Collection Staff**" shall mean employees/staff of **Vital Waste** responsible for packaging and collection of Recyclables.
- (b) "**Main Storage Location**" shall mean storage location where all the Dry Recyclables will be stored for collection and this location should be accessible to collection vehicle of **Vital Waste**.
- (c) "**Recyclables**" means any type of dry waste (Non Hazardous) which is not contaminated and can be reused or recycled into a new product.
- (d) "**Recycle Points**" means points awarded by **Vital Waste** for per kg of Recyclables. **1 Recycle Point = 1.00 INR.**
- (e) "**Collection Site**" shall be at premises of **Sammilani Mahavidyalaya, E.M. Bypass, Baghajatin Kolkata- 700094.**

ATTESTED

*Gana*  
Principal

Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

*S. Chakraborty*  
Teacher-In-Charge  
Sammilani Mahavidyalaya  
Baghajatin.



**ARTICLE-2**  
**APPOINTMENT OF VITAL WASTE**

- 2.1 **The Institution** hereby appointed Vital Waste to provide the recycling and allied waste management services for its **Collection Site**.
- 2.2 **Vital Waste** will collect the dry recyclables from the premises of **The Institution** as per the terms and conditions mentioned in this MOU.
- 2.3 **Vital Waste** will look after the matter of taking away chemical waste from laboratories.
- 2.4 **The Institution** will provide waste and will get E-certificate for recycling the waste.

**ARTICLE-3**  
**RECYCLING PROGRAMME**

- 3.1 **The Institution** will collect the entire waste in main storage location within the premises.
- 3.2 After collection of minimum quantity of 200 kg waste, the representative of **The Institution** shall intimate to **Vital Waste** to collect waste and to initiate the recycling Program.
- 3.3 **Vital Waste** will provide collection activity.
- 3.5 Collection Staff of **Vital Waste** will collect the Recyclables from the premises of **The Institution** after getting the collection requirement from the office of **The Institution** on next the day or within 3 working days from the receipt of collection request from the office of **The Institution**.
- 3.6 Collections are performed on working days, i.e. Monday to Saturday of every week, between 10.00 a.m. to 7.00 p.m. except public holidays.
- 3.7 If the office of **The Institution** is located in high rise building in such case the housekeeping staff of **The Institution** will bring the Recyclables to the location accessible to Collection Staff of **Vital Waste** or assist the Collection Staff of **Vital Waste** for collections of Recyclables.
- 3.8 Collection Staff of **Vital Waste** will be equipped with the weighing machines to perform the measurement of Recyclables in the presence of representative of **The Institution**.
- 3.9 Collection summary will be emailed to **The Institution** upon collection.
- 3.10 If average collection quantity in five (5) consecutive collection cycle is less than fifty (50kg) than **Vital Waste** has all the rights to discontinue the Recycling Program.

ATTESTED  
*Pana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

*Shekharati*  
Teacher-In-Charge  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin.  
Kolkata- 700 094



#### ARTICLE-4

#### EARNING & RECYCLE POINTS

- 4.1 All Recyclables so collected under the Recycling Program from **The Institution** shall be divided into various Categories in accordance with the 'Exchange Point Card' as is provided in **ANNEXURE 2**.
- 4.2 **Vital Waste** shall determine category-wise quantity of Recyclables collected from **The Institution**. Such figures of the quantity of each category of Recyclables so collected from **The Institution** shall be represented in the collection summary.

#### ARTICLE-5

#### REDEMPTION

- 5.1 Rates quoted in Exchange Point Card (**Annexure 2**) are appropriate to the particular recyclable product at the time of quoting.
- 5.2 *All payments of recycle and hazardous waste will be netted at the time of collection.*
- 5.3 *All netted points, if positive, will be paid in the same financial year (April to March) and if negative, it will be carried forward to next the financial year.*

#### ARTICLE-6

#### MISCELLANEOUS

- 6.1 This MOU, its existence and all information exchanged between the Parties under this MOU, shall not be disclosed to any other Person by any of the Parties. Each Party shall hold in strictest confidence, shall not use or disclose to any third party, and shall take all necessary precautions to secure any Confidential Information of the other Party. Disclosure of such information shall be restricted solely to the employees, agents, consultants and representatives who have been advised of their obligation with respect to such Confidential Information. The obligations of confidentiality do not extend to information which:
- (a) Is disclosed to employees, legal advisers, auditors and other consultants of a Party provided such persons have entered into confidentiality obligations similar to those set forth herein; or
- (b) Is disclosed with the consent of the Party who supplied the information; or

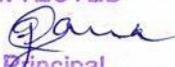
**ATTESTED**  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

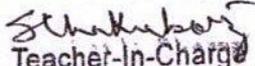
*Sanku*  
Teacher-In-Charge  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin,  
Kolkata- 700 094



- (c) Is, at the date this MOU is entered into, lawfully in the possession or the recipient of the information through sources other than the Party who supplied the information; or
- (d) Is required to be disclosed pursuant to applicable law or is appropriate in connection with any necessary or desirable intimation to the Government of India; or
- (e) Is generally and publicly available, other than as a result of breach of confidentiality by the Person receiving the information.

- 6.2. The Parties acknowledge and agree that this MOU is effective as of the date of execution of this MOU and shall be valid for three years from the effective date or until terminated by any of the parties by giving 30 days written notice to the other party, whichever occurs earlier.
- 6.3 Any notice required or permitted to be given hereunder shall be in writing and shall be effectively served (i) if delivered personally, upon receipt by the other Party; (ii) if sent by prepaid courier service, airmail or registered mail, within five (5) days of being sent; or (iii) if sent by facsimile or email or other similar means of electronic communication (with confirmed receipt), upon receipt of transmission notice by the sender. Any notice required or permitted to be given hereunder shall be addressed to the address as given in the title to this Agreement.
- 6.4 The parties hereto agree that, in the event that either of them suffers any harm of any description whatsoever, including losses, costs, damages, advocates or other consultant's fees and expenses or other expenses of any nature whatsoever, resulting from any inaccuracy in any of the respective representations and warranties of either of the Parties, as set forth in this MOU, the Party hereto whose representation and warranty is false or inaccurate shall immediately and fully, protect, hold harmless, and indemnify the other Party hereto. The indemnification contained in this Article shall not, in any way, relieve either Party hereto from any indemnification provided to any of the Parties hereto pursuant to any other agreement between such Parties.
- 6.5 This MOU shall be governed and interpreted by, and construed in accordance with the laws of India. Courts at Kolkata shall have jurisdiction to decide all matters arising out of this agreement and/or directly / impliedly concerning this MOU.
- 6.6 That at all times during the currency of this MOU as the case may be, the Parties shall use their best efforts to resolve by mutual agreement any dispute or difference arising between the Parties as to their respective rights, duties and obligations thereunder or as to any matter arising out of or in connection with the subject matter of this MOU or as to the meaning or construal of thereof ("Dispute"). If the Parties are unable to resolve any Dispute by negotiation within 30 days, either Party may propose to the other in writing that the Dispute should be referred to a sole arbitrator appointed by mutual consent of both the Parties for adjudication of such Dispute.

ATTESTED  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

  
Teacher-in-Charge  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin.

  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin

If the Parties are unable to agree on a sole arbitrator within fifteen (15) days of the proposal in writing by any Party to refer the Dispute for adjudication by arbitration, each Party shall name and appoint one arbitrator of its choice within thirty (30) days thereafter. The two arbitrators so appointed shall, by mutual consent, appoint a third arbitrator within fifteen (15) days thereafter, who shall act as the presiding arbitrator. The arbitration proceedings shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996. The language of arbitration shall be English and the venue of arbitration shall be Kolkata. The decision of the arbitrator / arbitral tribunal shall be final and binding on the Parties.

- 6.7 Nothing contained in this clause shall prevent the Parties from approaching a court of competent jurisdiction to obtain an interim injunctive relief, irrespective of whether the subject matter of dispute is under negotiation or pending arbitration.
- 6.8 Nothing contained in this MOU shall constitute or be deemed to constitute a partnership between the Parties, and no Party shall hold himself out as an agent for the other Party, except with the express prior written consent of the other Party.
- 6.9 This MOU may be executed in two counterparts, both of which taken together shall constitute one and the same agreement, and either Party may enter into this MOU by executing a counterpart.
- 6.10 No waiver of any breach of any provision of this MOU shall constitute a waiver of any prior, concurrent or subsequent breach of the same of any other provisions hereof, and no waiver shall be effective unless made in writing and signed by an authorized representative of the waiving Party.
- 6.11 If any provision of this MOU is invalid, unenforceable or prohibited by law, this MOU shall be considered divisible as to such provision and such provision shall be inoperative and shall not be part of the consideration moving from any Party hereto, to the others, and the remainder of this MOU shall be valid, binding and of like effect as though such provision was not included herein.

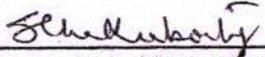
ATTESTED  
*Pana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

*Shukraborty*  
Teacher-In-Charge  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin.



IN WITNESS WHEREOF the Parties hereto have executed this MOU the day and year first hereinabove written.

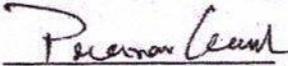
Signed and delivered for and on behalf of:  
Sammilani Mahavidyalaya



Name: **Dr. Sharmila Chakraborty**  
Title: **Teacher-in-Charge**

Signed and delivered for and on behalf of:

**M/s Redivivus Recyclers Private Limited**



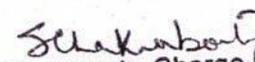
Name: **Pranav Goel**  
Title: **Director**



ATTESTED



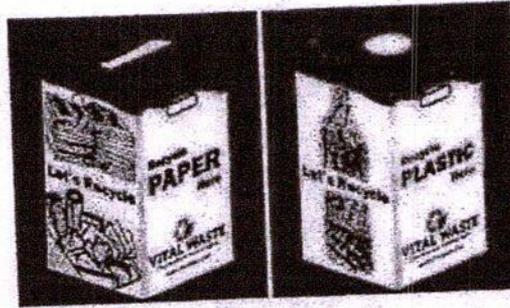
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

  
Teacher-In-Charge  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin.  
Kolkata- 700 094



**ANNEXURE -1  
RECYCLING BINS**

**PAPER RECYCLING BIN AND PLASTIC (PET) RECYCLING BIN**



**Cost per unit:** Rs 250 + Taxes  
**Size (L x B x H):** 15" X 9" X 28"  
**Material:** Recyclable Kraft + Duplex Paper

**ATTESTED**

*Para*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

*Shikha Bandyopadhyay*  
Teacher-In-Charge  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin,  
Kolkata-700 094



**ANNEXURE -2  
EXCHANGE POINT CARD**

QUOTATION		PRICE
ITEMS		POINTS
KOLKATA	1. PAPER	15
	2. FLAT BOARD/DUPLEX BOARD	2
	3. PLASTIC - PET	10
	4. PLASTIC - HDPE & Others	10
	5. ALUMINIUM	50
	6. METAL	15
	9. ELECTRONIC WASTE	20
	8. COPPER	350
	9.TUBE LIGHT AND MISCELLANEOUS ITEM	(-15)
	10.HAZARDOUS WASTE	(-75)

**Please Note:-**

Minimum expected collection quantity in a single collection cycle is 200 kg.  
Recycle Points are awarded against 1 kg of each category.

ATTESTED

*Pana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

*S. Chakrabarty*  
Teacher-In-Charge  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin,  
Kolkata- 700 094



ANNEXURE - 3

<COMPANY LETTER HEAD>

To

Whomsoever Concerned

DT:

**SUB: Dry Recyclables for recycling.**

Please allow the recyclables from M/s <COMPANY\_NAME> to be sent to M/s Redivivus Recyclers Private Ltd.54/7B, D.C Dey Road, Kolkata – 700015 for the purpose of recycling.

Total Weight: \_\_\_\_\_

Value (Inclusive of Taxes): Rs. \_\_\_\_\_

Regards

(SIGN & STAMP)

<COMPANY\_NAME>

ATTESTED  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

*Shankubati*  
Teacher-In-Charge  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin,  
Kolkata- 700 094



CERTIFICATE NO.: WM/2022-2023/EW/0015



**VITAL WASTE**  
A RECYCLING AND WASTE MANAGEMENT COMPANY

# CERTIFICATE OF E-WASTE RECYCLING

This certificate is proudly presented to

**SAMMILANI MAHAVIDYALAYA**

For the ethical collection and channelization for recycling of **311.3** kgs of E-Waste.

This document certifies that all materials/equipment have been channelized for recycling under standard set down in the E-waste (Management) Rules, 2016 and amendments thereafter.

**Principal**  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghatin  
Kolkata-700 094

**ATTESTED**

*Pranav Goyal*

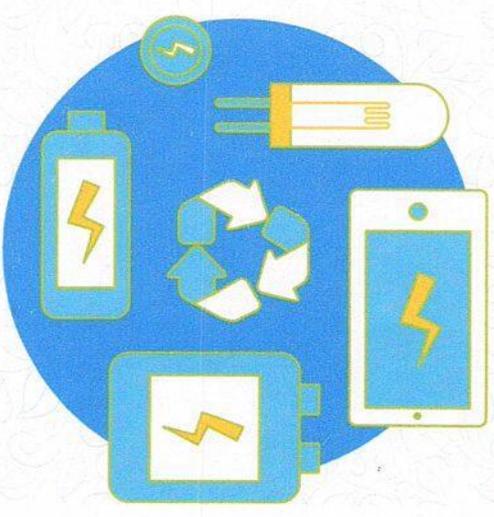
**CHIEF EXECUTIVE OFFICER**



**DATE**

**30-05-2023**

**CPCB REGISTRATION NO.: B-29016(141)/(PRO)/2022/WM-III Division**





principal sammilani <principal.sammilani@gmail.>

## Rainwater Harvesting programme Invite

4 messages

**Christine Gupta** <christine.gupta@pcchandraindia.com>

Tue, Jul 23, 2019 at 3:2

To: Jogamaya Devi College <principal@jogamayadevicollege.org>, East Calcutta Girls College <principalecgc@gmail.com>, East Calcutta Girls College <ecgc\_principal@rediffmail.com>, "Dr. Manas Adhikary" <susilkarcollege@gmail.com>, "Dr. Sasabindu Jana" <raidighicollege95@gmail.com>, "Dr. Sharmila Mitra" <behalacol60@yahoo.com>, "Dr. Tarun Mondal-" <shdcollege1961@gmail.com>, "Dr. Dibyendu Talapatra" <dibyendutalapatra@gmail.com>, "Arunabha Ghosh (TIC)" <collegesukanta@gmail.com>, "Dr. Tilak Chatterjee" <mail2bscollege@gmail.com>, "Dr. Utpal Kumar Utthasani" <dsm1lib@yahoo.co.in>, "Dr. Utpal Kumar Utthasani" <dmashapatramgc@gmail.com>, "Dr. Siddhartha Gupta" <sarada\_06@yahoo.co.in>, "Dr. Goutam Chatterjee" <principalkcollege@yahoo.com>, "Dr. Sima Banerjee" <janaasok\_2007@rediffmail.com>, "Dr. Syed Sajidul Islam" <sarambagirlscollege@gmail.com>, "Dr. Soma Ghosh" <hmmcw35@gmail.com>, "Dr. Subrata Kumar Ray" <dr\_skray@yahoo.co.in>, "Dr. Santiranjan Palchaudhuri" <principal.sammilani@gmail.com>, "Prof. Madhumita Majodia" <njmj\_dw@yahoo.co.in>

Respected Principals,

**Sub- Rainwater Harvesting**

**Greetings from P.C. Chandra Group!**

We thank your college for participating in the 'Save Water Campaign' programme of The P.C. Chandra Group. On receiving your proposal/plan for developing a Rainwater Harvesting System in your college, we request you to start the work officially and immediately.

This is an effort to fulfil our corporate social responsibility under the thematic area of water conservation where rain-water harvesting is a way of collecting and storing rain water either for reuse or for ground water recharge.

The office bearers and the Executive Committee members of The P.C. Chandra Group are pleased to present their initial contribution (1<sup>st</sup> Instalment) vide Cheque amounting to INR 50,000/- for constructing Rainwater Harvesting system in your college and the balance after inspection as per discussion and limit.

ATTESTED



Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

In view of the above, a cheque distribution ceremony will be held on Thursday 22<sup>nd</sup> August 2019 at 4.00 pm at The Maple Banquet Hall - of P.C. Chandra Gardens: **E.M. bypass, Opp. Science City, Kolkata 700 105**

Mr. Sabyasachi Chakraborty has agreed to be present in the programme to share his experience of the need for water conservation.

*His brief profile - Indian actor of theatre, films and television. He is considered to be one of the most prolific actors of West Bengal, and is best known for portraying iconic Bengali detective characters, Feluda and Kakababu. He has a lot of experience on water conservation all over the world -*

We have the pleasure to invite you and another ✓cher/ vice principal from your college for the sa ceremony . Your presence will be highly appreciated.

Kindly confirm officially so that we can proceed with the programme.

With Warm Regards.

**Christine Gupta**

**Manager- Corporate Social Responsibility**

**Radhamadhab Institution**

**P.C.Chandra Group**

**Admin. Office: P-35, C.I.T. Road, 3rd Floor, Kolkata - 700 014**

**Mobile: +91 9883481302,**

**email id: christine.gupta@pcchandraindia.com**

**website : www.pcchandraindia.com**

**P. C. CHANDRA**  
**G R O U P**

**Bankim Sardar College** <mail2bscollege@gmail.com>

To: Christine Gupta <christine.gupta@pcchandraindia.com>

Cc: Jogamaya Devi College <principal@jogamayadevicollege.org>, East Calcutta Girls College <principalecgc@gmail.com>, East Calcutta Girls College

<ecgc\_principal@rediffmail.com>, "Dr. Manas Adhikary" <susilkarcollege@gmail.com>, "Dr. Sasabindu Jana" <raidighicollege95@gmail.com>, "Dr. Sharmila Mitra"

<behalacoll60@yahoo.com>, "Dr. Tarun Mondal" <shdcollege1961@gmail.com>, "Dr. Dibyendu Talapatra" <dibyendutalapatra@gmail.com>, "Arunabha Ghosh (TIC)"

<collegesukanta@gmail.com>, "Dr. Utpal Kumar Utthasani" <dsm1lib@yahoo.co.in>, "Dr. Utpal Kumar Utthasani" <dmashapatramgc@gmail.com>, "Dr. Siddhartha Gupta"

<siddharthagupta1958@gmail.com>, "Dr. Siddhartha Gupta" <sarada\_06@yahoo.co.in>, "Dr. Goutam Chatterjee" <principalkccollege@yahoo.com>, "Dr. Sima Banerjee"

<janaasok\_2007@rediffmail.com>, "Dr. Syed Sajidul Islam" <arambaghgirlscollege@gmail.com>, "Dr. Soma Ghosh" <hmmcw35@gmail.com>, "Dr. Subrata Kumar Ray"

<dr\_skray@yahoo.co.in>, "Dr. Santiranjan Palchaudhuri" <principal.sammiliani@gmail.com>, "Prof. Madhumita Jajodia" <mjm\_dwc@yahoo.co.in>

Tue, Jul 23, 2019 at 4:1

I accept the invitation.

[Quoted text hidden]

ATTESTED

  
Principal

Sammilani Mahavidyalaya  
E.M. Bypass, Baghatia  
Kolkata-700 094

**Bankim Sardar College** <mail2bscollege@gmail.com>

To: Christine Gupta <christine.gupta@pcchandraindia.com>

Cc: Jogamaya Devi College <principal@jogamayadevicollege.org>, East Calcutta Girls College <principalecgc@gmail.com>, East Calcutta Girls College

<ecgc\_principal@rediffmail.com>, "Dr. Manas Adhikary" <susilkarcollege@gmail.com>, "Dr. Sasabindu Jana" <raidighicollege95@gmail.com>, "Dr. Sharmila Mitra"

<behalacoll60@yahoo.com>, "Dr. Tarun Mondal" <shdcollege1961@gmail.com>, "Dr. Dibyendu Talapatra" <dibyendutalapatra@gmail.com>, "Arunabha Ghosh (TIC)"

<collegesukanta@gmail.com>, "Dr. Utpal Kumar Utthasani" <dsm1lib@yahoo.co.in>, "Dr. Utpal Kumar Utthasani" <dmashapatramgc@gmail.com>, "Dr. Siddhartha Gupta"

<siddharthagupta1958@gmail.com>, "Dr. Siddhartha Gupta" <sarada\_06@yahoo.co.in>, "Dr. Goutam Chatterjee" <principalkccollege@yahoo.com>, "Dr. Sima Banerjee"

<janaasok\_2007@rediffmail.com>, "Dr. Syed Sajidul Islam" <arambaghgirlscollege@gmail.com>, "Dr. Soma Ghosh" <hmmcw35@gmail.com>, "Dr. Subrata Kumar Ray"

<dr\_skray@yahoo.co.in>, "Dr. Santiranjan Palchaudhuri" <principal.sammiliani@gmail.com>, "Prof. Madhumita Jajodia" <mjm\_dwc@yahoo.co.in>

Tue, Jul 23, 2019 at 4:1

I accept the invitation

On Tue, Jul 23, 2019, 15:20 Christine Gupta <christine.gupta@pcchandraindia.com> wrote:  
[Quoted text hidden]

**Christine Gupta** <christine.gupta@pcchandraindia.com>

To: ARAMBAGH GIRLS' COLLEGE <arambaghgirlscollege@gmail.com>, East Calcutta Girls College <principalecgc@gmail.com>, East Calcutta Girls College <ecgc\_principal@rediffmail.com>, Sushil Kar College <suslikarcollege@gmail.com>, Raidighi College <sasabindujana63@gmail.com>, Raidighi College <raidighicollege95@gmail.com>, KRISHNA CHANDRA COLLEGE <principalkcollege@yahoo.com>, PRABHU JAGATBANDHU COLLEGE <dr\_skray@yahoo.co.in>, PRABI JAGATBANDHU COLLEGE <bechuram1234@gmail.com>, SAMMILANI MAHAVIDYALAYA <principal.sammilani@gmail.com>, SAMMILANI MAHAVIDYALAYA <info@sammilanimahavidyalaya.org>, Mahisadal Girls College <dsm1lib@yahoo.co.in>, Mahisadal Girls College <dmashapatramgc@gmail.com>

Tue, Jul 30, 2019 at 5:3

Dear Principals,

awaiting for your confirmation.

Regards

**Christine Gupta**

**Manager- Corporate Social Responsibility**

**Radhamadhab Institution**

**P.C.Chandra Group**

**Admin. Office: P-35, C.I.T. Road, 3rd Floor, Kolkata - 700 014**

**Mobile: +91 9883481302,**

**email id: [christine.gupta@pcchandraindia.com](mailto:christine.gupta@pcchandraindia.com)**

**website : [www.pcchandraindia.com](http://www.pcchandraindia.com)**

**P. C. CHANDRA**  
**G R O U P**

[Quoted text hidden]

ATTESTED  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



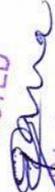
## Confirmation of Rainwater Harvesting Programme

principal sammilani <principal.sammilani@gmail.com>  
To: Christine Gupta <christine.gupta@pcchandraindia.com>

Tue, Aug 13, 2019 at 6:3

We will participate on that day ,i.e on 22nd August. The number of heads is two and it is confirmed from our end.  
[Quoted text hidden]

--  
Principal  
Sammilani Mahavidyalaya  
E.M.By Pass, Baghajatin  
Kolkata - 700094.

ATTESTED  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



principal sammilani <principal.sammilani@gmail.>

## Confirmation of Rainwater Harvesting Programme

2 messages

**Christine Gupta** <christine.gupta@pcchandraindia.com>

To: SAMMILANI MAHAVIDYALAYA <principal.sammilani@gmail.com>, SAMMILANI MAHAVIDYALAYA <info@sammilanimahavidyalaya.org>, Barasat College <barasatcollege72@yahoo.com>, Barasat College <barasatcollege72@outlook.com>

Mon, Aug 12, 2019 at 4:0

Dear Principal

We need your confirmation of attending the Rainwater Harvesting programme on 22nd August at the P.C.Chandra Gardens . We will require the no of heads to be present on that day .

Regards

**Christine Gupta**

Manager- Corporate Social Responsibility

Radhamadhab Institution

P.C.Chandra Group

Admin. Office: P-35, C.I.T. Road, 3rd Floor, Kolkata - 700 014

Mobile: +91 9883481302,

email id: christine.gupta@pcchandraindia.com

website : www.pcchandraindia.com

**P. C. CHANDRA**  
G R O U P

principal sammilani <principal.sammilani@gmail.com>

To: Christine Gupta <christine.gupta@pcchandraindia.com>

Tue, Aug 13, 2019 at 6:3

We will participate on that day ,i.e on 22nd August. The number of heads is two and it is confirmed from our end.

[Quoted text hidden]

Principal

*Sammilani Mahavidyalaya*

*E.M.By Pass, Baghajatin*

*Kolkata - 700094.*

ATTESTED

Principal

*Sammilani Mahavidyalaya*

*E.M. Bypass, Baghajatin*

*Kolkata-700 094*



principal sammilani <principal.sammilani@gmail.>

## Rainwater Harvesting Project 2019 - Request for updation

1 message

**Christine Gupta** <christine.gupta@pcchandraindia.com>

To: East Calcutta Girls College <principalecgc@gmail.com>, East Calcutta Girls College <ecgc\_principal@rediffmail.com>, SUNDARBAN HAZI DESARAT COLLEGE <shdcollege1961@gmail.com>, HOOGHLY WOMEN'S COLLEGE <hooghlywomenscollege@gmail.com>, Sukanta College <collegesukanta@gmail.com>, SAMMILANI MAHAVIDYALAYA <principal.sammilani@gmail.com>, SAMMILANI MAHAVIDYALAYA <info@sammilanimahavidyalaya.org>, Mahisadal Girls College <dsm1lib@yahoo.co.in> Mahisadal Girls College <dmashapatramgc@gmail.com>, KRISHNA CHANDRA COLLEGE <principalkccollege@yahoo.com>, HIRALAL MAZUMDAR MEMORIAL COLLEGE WOMEN <hmmcw35@gmail.com>, Behala College <behalacolli60@yahoo.com>, BANKURA ZILLA SARADAMANI MAHILA MAHAVIDYAPITH <siddharthagupta1958@gmail.com>, BANKURA ZILLA SARADAMANI MAHILA MAHAVIDYAPITH <arambaghgirlscollege@gmail.com>, Banipur Mahila Mahavidyalaya <banipurmahilamahavidyalaya@gmail.com>, Sushil Kar College <susilkarcollege@gmail.com>, Barasat College <barasatcollege72@yahoo.com>, Barasat College <barasatcollege72@outlook.com>, DURGAPUR WOMEN'S COLLEGE <mjm\_dwc@yahoo.co.in>, Derozio Memorial College <dibyendutalapatra@gmail.com>, Bankim Sardar College <mail2bscollege@gmail.com>, PRABHU JAGATBANDHU COLLEGE <dr\_skray@yahoo.co.in>, PRABHU JAGATBANDHU COLLEGE <bechuram1234@gmail.com>, Jogamaya Devi College <principal@jogamayadevicollege.org>, Raidighi College <sasabindujana63@gmail.com> Raidighi College <raidighicollege95@gmail.com>

Wed, Dec 11, 2019 at 1:3

Respected principals,

We would like to be informed about the progress of construction of rainwater harvesting system in your college .

Kindly send us a brief report with pictures of the completed project along with pictures and UC to help us disburse the balance amount.

Please let us know in advance so that we can visit your college.

Regards

**Christine Gupta**  
Manager- Corporate Social Responsibility  
Radhamadhab Institution  
P.C.Chandra Group

Admin. Office: P-35, C.I.T. Road, 3rd Floor, Kolkata - 700 014

Mobile: +91 9883481302,

email id: [christine.gupta@pcchandraindia.com](mailto:christine.gupta@pcchandraindia.com)

website : [www.pcchandraindia.com](http://www.pcchandraindia.com)

ATTESTED  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajain  
Kolkata-700 094

**P. C. CHANDRA**  
G R O U P



# Sammilani Mahavidyalaya

(NAAC ACCREDITED B++)

[AFFILIATED TO CALCUTTA UNIVERSITY]

E. M. BYPASS, BAGHAJATIN,  
KOLKATA - 700 094

Phone: 3462-6885

E-mail:

principal.sammilani@gmail.com

info@sammilanimahavidyalaya.org

Website:

www.sammilanimahavidyalaya.org

Ref.No.....

Date 31.08.2019

## NOTICE

A meeting of the Finance Sub-committee will be held on Friday, **September 06, 2019 at 1 p.m.** in the Principal's chamber to discuss the following agenda. All members are requested to attend at the appointed place, date and hour.

1. Confirmation of the minutes of the last meeting held on 28.09.2018.
2. Ratification of miscellaneous expenditure incurred by various departments of the college.
3. Ratification of expenditure incurred by the college for repair, maintenance and upgrade of facilities.
4. Ratification of the decision of the Admission Sub-committee regarding purchase of admission software (online) for the session 2019-20.
5. Consideration of the absence of Master Budget and departmental budgets for the financial years 2017-18, 2018-19 and 2019-20.
6. Consideration of the Statutory Auditor's Report for the financial year 2016-17 and current status of college audit.
7. Consideration of the report of the Coordinator, PMU-RUSA on the progress of work under first phase of RUSA 2.0 programme.
8. Approval of the proposals of purchase submitted by some departments.
9. Consideration of the payment made to Smt. Paramita Sadhukhan, Substitute Lecturer in Sanskrit under UGC FDP scheme.
10. Consideration of the request of the PWDte, Govt. of West Bengal for placement of funds against their estimate for miscellaneous work in the college.
11. Consideration of the demand of the General Secretary, Students' Union for withdrawal of enhanced fees for students from the session 2019-20.
12. **Sanction of funds for work on rainwater harvesting project sponsored by P.C.Chandra Group, Kolkata.**

Miscellaneous, if any.

*Ananda Mukherjee*

Dr. Ananda Mukherjee  
(Convenor, Finance Sub-committee)

ATTESTED  
*Sana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

*S. Palchaudhuri*

Dr. S. Palchaudhuri  
(Principal)

Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata- 700 094

E.M. Bypass, Baghajatin  
Kolkata-700 094



# Sammilani Mahavidyalaya

( NAAC ACCREDITED B++ )

[AFFILIATED TO CALCUTTA UNIVERSITY]  
E. M. BYPASS, BAGHAJATIN,  
KOLKATA - 700 094

Phone : 2462-6869

E-mail :

principal.sammilani@gmail.com

info@sammilanimahavidyalaya.org

Website :

www.sammilanimahavidyalaya.org

Ref No .....

Date 22.01.2020

To  
Christine Gupta  
Manager- Corporate Social Responsibility,  
Radhamadhab Institution,  
P.C.Chandra Group,  
P-35, C.I.T. Road, 3<sup>rd</sup> Floor,  
Kolkata - 700014.

**Sub: Submission of Brief Progress Report about "Rain Water Harvesting Project" with pictures and Utilization Report.**

Madam,

I would like to inform you that as per your requirement stated in the mail dated 11<sup>th</sup> December 2019, a Brief report along with relevant documents is being hereby submitted for your perusal.

Kindly do the needful and release the remaining amount of Rs.20,000/- (Rupees twenty thousand only) for successful completion of our work.

Thanking you,

Sincerely yours,

*S. Palchaudhuri*

Dr. S.Palchaudhuri

(Principal)

Principal

Sammilani Mahavidyalaya

E.M.Bypass, Baghajatin

Kolkata- 700 094

Encl:

1. Brief Progress Report
2. Utilisation Certificate
3. Photocopy of Bills and Vouchers
4. Pictures of ongoing project work

ATTESTED

*Gana*

Principal

Sammilani Mahavidyalaya

E.M. Bypass, Baghajatin

Kolkata-700 094



# Sammilani Mahavidyalaya

( NAAC ACCREDITED B++ )

[AFFILIATED TO CALCUTTA UNIVERSITY]  
E. M. BYPASS, BAGHAJATIN,  
KOLKATA - 700 094

Phone : 2462-6869

E-mail :

principal.sammilani@gmail.com  
info@sammilanimahavidyalaya.org

Website :

www.sammilanimahavidyalaya.org

Date 22.01.2020

Ref No .....

## REPORT

It has been a great honour for our institution to receive Rs.50,000/- (Rupees fifty thousand only) as 1<sup>st</sup> installment from the esteemed P.C.Chandra Group for initiation of Rain Water Harvesting Project (RWH). As an institution, our college with its students, faculty and staff will be benefitted and will cater to larger interest of conservation of water resource. The cooperation and financial assistance received from P.C.Chandra Group is humbly acknowledged and commended.

The first phase of work regarding RWH Project has already been initiated from our end. In this connection, we have entrusted the responsibility with the company named 'ENVIRONSPEC' to accomplish the project. As a part of the project, we have already purchased one HDPE tank of 2000 litres capacity, PVC rain pipes and other necessary items. Moreover, we have undertaken extra constructional work to strengthen the structure above which the rain water pipes are supposed to be laid down.

*S. Palchoudhury*

Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700094

ATTESTED

*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



# Sammilani Mahavidyalaya

( NAAC ACCREDITED B++ )

[AFFILIATED TO CALCUTTA UNIVERSITY]  
E. M. BYPASS, BAGHAJATIN,  
KOLKATA - 700 094

Phone : 2462-6869

E-mail :

principal.sammilani@gmail.com

info@sammilanimahavidyalaya.org

Website :

www.sammilanimahavidyalaya.org

Ref No.....

Date 22.01.2020

## UTILISATION CERTIFICATE

Certified that the grant of Rs.50,000/- (Rupees Fifty thousand only) as 1<sup>st</sup> instalment received from P.C.Chandra Group under the scheme of Rain Water Harvesting Project vide letter no.....~~NIL~~..... dated 22.08.2019 ( Cheque No. 410688 dated ~~22.08.2019~~ drawn on Axis Bank Ltd., C.I.T. Road Branch) has been fully utilised for the purpose for which it was sanctioned and in accordance with the terms and conditions laid down by the contributor.

*S. Palchaudhuri*

Dr. S.Palchaudhuri

(Principal)

Principal

Sammilani Mahavidyalaya

E.M. Bypass, Baghajatin

Kolkata- 700 094

*Dr.*

Dr. Malay Roy

(Bursar)

ATTESTED

*Gana*

Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



# ENVIRONMENT AUDIT REPORT FOR SAMMILANI MAHAVIDYALAYA



## Elion Technologies & Consulting Private Limited

307, 3<sup>rd</sup> Floor, DDA Lal Market, H-Block  
Vikas Puri, New Delhi-110018

ATTESTED  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Table of Contents

Content	Page No.
Acknowledgement	3
Site Information	4
Concept	5
Introduction	6
Overview of Campus	7
Audit Objectives	9
Executive Summary	10
Environmental Audit - Questionnaire	11
Recommendations	25
Photographic Evidences	26
Conclusion	29
References	30
Disclaimer	31

ATTESTED  
*[Signature]*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Acknowledgement

Elion Technologies and Consulting Pvt Ltd thanks the management of Sammilani Mahavidyalaya for assigning this important work of Environmental Audit. We appreciate the co-operation to our team for completion of study.

For giving us necessary inputs to carry out this very vital exercise of Environment Audit. We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements.

ATTESTED

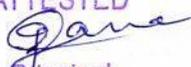
*Gana*  
Principal

Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Site Information

Name of College	Sammilani Mahavidyalaya
College Address	Eastern Metropolitan Bypass, Baghajatin, Kolkata, West Bengal, 700094
Execution Partner	ELION Technologies & Consulting Pvt Ltd
Communication Address	307, 3rd Floor DDA Lal Market H-Block Vikas Puri, New Delhi-110018
Date of Audit	17 <sup>th</sup> March 2022
Year of Audit	2021 - 2022
Audit Participants	Dr. Sharmila Chakraborty – Teacher In Charge Prof. Debashish Roy – Coordinator of Quality Audits Dr. Srikanta Malakar – IQAC Coordinator Dr. Ananda Mukherjee – Associate Professor, Commerce Prof. Uttam Kumar Ghosh – Associate Professor, Commerce Prof. Lupsy Mohanty Roy – Assistant Professor, Pol. Sc. Prof. Brototi Mondal – Assistant Professor, Computer Sc. Shri Rajesh Das (Electrician) Premanshu Purkait and Tarapada Das – Cleaning Agency appointed personnel
Total College Area	8093 sq. mt.
Total Green Area	5417.25 sq. mt.

ATTESTED  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Concept

The term 'Environmental audit' means differently to different people. Terms like 'assessment', 'survey' and 'review' are also used to describe similar activities. Furthermore, some organizations believe that an 'environmental audit' addresses only environmental matters, whereas others use the term to mean an audit of health, safety and environment-related matters. Although there is no universal definition of Environmental Audit, many leading companies/ institutions follow the basic philosophy and approach summarized by the broad definition adopted by the International Chambers of Commerce (ICC) in its publication of Environmental Auditing (1989).

The ICC defines Environmental Auditing as:

"A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of safeguarding the environment and natural resources in its operations/projects."

The European Commission, in its proposed regulation on environmental auditing, has also adopted the ICC definition of Environmental Audit.

ATTESTED  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

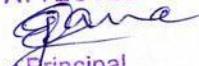


## Introduction

A clean and healthy environment aids effective learning and provides a conducive learning environment. There are various efforts around the world to address environmental education issues.

Environmental Management Systems (EMS) is very popular in the industrial sector, but the general belief is that EMS is something pertaining to industries only. Other parts of the world have started adopting compatible environmental management systems either voluntarily or for promoting standards by external certification. International environmental standards do not suit the existing Indian educational system.

A very simple indigenized system has been devised to monitor the environmental performance of educational institutions. It comes with a series of questions to be answered on a regular basis. Environmental conditions may be monitored from angles that are relevant to Indian requirements, without stress on legal issues or compliance. This innovative scheme is user- friendly and totally voluntary. The environmental monitoring system helps the institution to set environmental examples for the community and to educate young learners. It can be adapted to urban and / or rural situations.

ATTESTED  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Overview of Campus

Sammilani Mahavidyalaya was established on 12th of December, 1996 by the initiative of some academic entrepreneurs, with a definite objective to impart knowledge and skill to the young generation of the locality. Along with those academicians, enthusiasts from all sections of the society also rendered their active co-operation in this selfless venture. Initially the college started functioning from a local secondary school, Santoshpur Vidyamandir (Boys) and the classes were held in the evening. Within a record period of only seven months, the new building was constructed and the college shifted to its present address. On 5th June 2003, UGC granted the college the status to receive financial assistance under the rule U/S 12(B) of the UGC Act. 1965. The college has been accredited by the National Assessment and Accreditation Council in 2005 and awarded Grade 'B' and Grade 'B++' in the year 2016. It has also been assessed by the Department of Higher Education, Govt. of West Bengal in January, 2010 under the State Level Assessment Programme (SLAP). The college, which started with only three students, is now bustling with more than 2000 students in the different departments of Arts, Science and Commerce faculties. The active and moral support of Sri. Buddhadeb Bhattacharjee, former Chief Minister of West Bengal, the unyielding devotion of Sri Kanti Bhushan Ganguly, former Minister of Sunderban Affairs, Govt. of West Bengal (and also the erstwhile Secretary of the Preparatory Committee of the college), the sincere dedication and guidance of Late Prof. Ramaranjan Mukhopadhyay and Prof. K.P. Majumder and the efforts and services rendered by all those persons who are associated with the college in one way or the other have helped the college to attain present position as one of the leading academic institutions in the locality. Today the college is on the fast track of progress and success. Yet, there are many miles to tread before our dream becomes true, before our vision materialises into reality.

### List of programs offered by the institute:

Following are the list of undergraduate courses offered by the institute-

Three year degree programmes in:

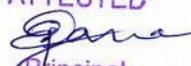
#### A. Arts

History, Geography, Political Sciences, Sanskrit, Education, English, Bengali, Philosophy, Economics.

#### B. Science

Computer Science, Microbiology, Physics, Chemistry, Zoology, Botany, Mathematics.

#### C. Commerce

ATTESTED  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



**List of the Facility Building:**

Total Area: 8093 sq.mt (2 Acre)

Green Area: 5417.25 sq.mt

Building Name	Areas	Number of Floors
Main Block including West Block	1103 sq. mt.	4
West Block	484.4 sq. mt.	3
New Block	559 sq. mt.	2
Annex building	197 sq. mt.	2
Space among the blocks	332.35 sq. mt.	

**ATTESTED**

Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Audit Objectives

The broad aims/ benefits of the eco-auditing system would be –

- Environmental education through systematic environmental management approach
- Improving environmental standards
- Benchmarking for environmental protection initiatives
- Reduction in resource use
- Financial savings through a reduction in resource use
- Curriculum enrichment through practical experience
- Development of ownership, personal and social responsibility for the college campus and its environment
- Enhancement of university profile
- Developing an environmental ethics and value systems in young people

ATTESTED  
*Pava*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Executive Summary

An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance.

This is second environmental audit of campus for NACC affiliation; QS Program and doing their bid towards environmental protection and environmental awareness at local and global front. Audit criterion is environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation and environmental legislative compliance by the campus. A questionnaire is used during audit. This audit report contains observations and recommendations for improvement of environmental consciousness.

ATTESTED  
*Pana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Environmental Audit - Questionnaire

The areas of eco/environmental/green auditing to be followed/practised by participating institutions:

- I. Waste Minimization and Recycling
- II. Greening
- III. Energy Conservation
- IV. Water Conservation
- V. Clean Air
- VI. Animal Welfare
- VII. Environmental Legislative
- VIII. General Practices

Is any Environmental Audit conducted earlier?

No, this is the first time.

What is the total permanent population of the Campus?

	Male	Female	Total
Students	1192	848	2040
Teachers	43	41	84
Non-Teaching Staff	25	1	39
Sub Total	1260	890	2150
Approximate Number of Visitors (Per day)			150
What is the total number of working days of your campus in a year?			230

Where is the campus located?

The campus is located in southern part of Kolkata.

ATTESTED  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



Which of the following are available in your campus?

1	Garden area	Yes
2	Playground	Yes
3	Kitchen	Yes
4	Toilets	Yes
5	Garbage Or Waste Store Yard	No
6	Laboratory	Yes
7	Canteen	Yes
8	Hostel Facility (Numbers)	No
9	Guest House	No

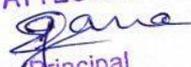
Which of the following are found near your campus?

1	Municipal dump yard	Yes
2	Garbage heap	No
3	Public convenience	Yes
4	Sewer line	Yes
5	Stagnant water	No
6	Open drainage	No
7	Industry – (Mention the type)	No
8	Bus / Railway station	Yes
9	Market / Shopping complex / Public halls	Yes



**I - WASTE MINIMIZATION AND RECYCLING**

1.	Does your campus generate any waste? If so, what are they?	YES. Papers, flat boards, plastic bottles, metals( aluminum, copper), E-waste, hazardous waste ( chemicals and laboratory end products), organic and bio-degradable (plant origin)
2.	What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	<ul style="list-style-type: none"> <li>• Paper Waste – 20KG/Month</li> <li>• Plastic Waste – 5KG/Month</li> <li>• Biodegradable Waste – 5KG/Month</li> <li>• Hazardous Waste – 6KG/Month</li> <li>• E-waste &amp; Metals – 20KG/Month</li> </ul>
3.	How is the waste generated in the campus managed? By 1 Composting 2 Recycling 3 Reusing 4 Others(specify)	<ul style="list-style-type: none"> <li>• Composting is done for organic and biodegradable products.</li> <li>• Recycling is done for paper and plastic waste.</li> <li>• Some non-degradable and degradable wastes are being off- loaded separately to KMC (Kolkata Municipality Corporation) approved dump yard ; from where Kolkata Municipality Corporation collect these wastes, for further processing and recycling according to the merit of the waste materials.</li> </ul> <p>Note : College has signed a MOU with M/S Redivivus Recyclers private LTD ( Vital waste ) of Kolkata 700020 for recycling of dry waste* materials on 23rd May 25, 2022.</p>
4.	Do you use recycled paper in campus?	Yes
5.	Do you use reused paper in campus?	Yes

**ATTESTED**  
  
 Principal  
 Sammilani Mahavidyalaya  
 E.M. Bypass, Baghajatin  
 Kolkata-700 094



<p>6.</p>	<p>How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.</p>	<ul style="list-style-type: none"> <li>• Through organizing seminars and awareness camping programs organized by college.</li> <li>• By encouraging students to participate in such programs organized elsewhere.</li> <li>• Involving students in cleaning programs in college premises and thereby giving them practical knowledge on different types of waste (bio degradable and non- bio degradable) and the importance of recycling and consequence of pollution.</li> </ul> <p>YES. Conducting Awareness programs by the NSS in the local slum areas. Involving students in such programs and they also convey the message to peoples at their distant rural and urban residential places.</p>
<p>7.</p>	<p>Can you achieve zero garbage in your campus? If yes, how?</p>	<p>Yes</p> <p>Through waste management systems by appointing authorized company (Vital wastes) who collect hazardous wastes, e wastes, papers, flat boards, metals, chemicals at scheduled regular interval for further processing.</p> <p>Through appointing cleaning agency who conduct day to day collection of bio degradable and no- degradable wastes from college premises accumulated in green and blue bins and dispose them in nearest KMC (Kolkata Municipality Corporation ) dump-yard for further processing by the municipality.</p> <p>Plant products (leaf, shoots, dry</p>



	grasses, etc) of gardens and greeneries are collected and stored in specific place for decomposing and manure formation.
--	--

II – GREENING THE CAMPUS

1.	Is there a garden in your campus?	Yes
2.	Do students spend time in the garden?	Not Allowed
3.	Total number of Plants in Campus	Large Trees – 250 Shrubs – 750 Herbs - 20
4.	Provide some names of trees and plants in the campus.	<ul style="list-style-type: none"> <li>• Mahogany, Sal, deodar are among trees.</li> <li>• Among vegetables green chili, tomato etc and among fruits guava, banana, coconut are suitable for the college campus.</li> <li>• Seasonal flowering plants like dahlia, marigold, sunflowers, daisy, pansy etc.</li> <li>• Some medicinal plants like boira, haritoki, amloki, tulsi etc.</li> <li>• Other plants like rose, champa (plumeria ), togar ( Jasmine ), and different decorative plants can also be planted.</li> </ul>
5.	Does the college campus have any Horticulture Department?	No
	If yes, number of Staff working in Horticulture Department?	NA

ATTESTED

*[Signature]*  
Principal

Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



6.	Number of Tree Plantation Drives organized by institute per annum.(If Any)	One
7.	Number of Trees Planted in Last year.	200
	Survival Rate	90%
8.	Plant Distribution Program for Students and Community	Yes
9.	Plant Ownership Program	Yes

**III – ENERGY**

<p>1. List down ways that you use energy in your campus. (Electricity, LPG, firewood, others). Using this list, try to think of ways that you could use less energy every day.</p>	<ol style="list-style-type: none"> <li>1. Lighting of rooms.</li> <li>2. Cooling of rooms by fans.</li> <li>3. Cooling of rooms (laboratories, offices, smart classrooms) by air conditioners.</li> <li>4. Using LPG in canteen and kitchen.</li> <li>5. Running DG sets by Diesel.</li> <li>6. Lighting up hoardings and glow sign boards.</li> <li>7. Running of pumps to supply water in laboratories and toilets.</li> <li>8. Running of RO machines for water purification and for generation of drinking water.</li> </ol>
--	--



		<p>9. Watering gardens.</p> <p>10. Running of various electronic devices like computer, printers, photo copy machines and laboratory equipment .</p>
<p>2.</p>	<p>Are there any energy saving methods, equipments, techniques employed in your campus? If yes, please specify. If no, suggest some</p>	<p>YES.</p> <ul style="list-style-type: none"> <li>• Installation of roof top solar plants. Generated power is transferred to the grid of CESC. ( CALCUTTA ELECTRIC SUPPLY CORPORATION )</li> <li>• Using of LED in all class rooms and laboratories. Approx. Just above 70% of all the lights are energy saving LED. Rest of the conventional lights shall be replaced in near future.</li> <li>• College class rooms and laboratories, stairs, corridors are well lit up with natural light through large windows.</li> <li>• Using of AC drain water in nearest garden.</li> </ul> <p>Suggested:</p> <ul style="list-style-type: none"> <li>• Using of RO drainage water for suitable purposes. ( Garden/ washing etc )</li> <li>• Installation of smart tap and dual flush system.</li> <li>• Regular maintenance of air-conditioner .</li> <li>• Organizing awareness</li> </ul>



		<p>programs on judicious use of energy and on our social responsibilities.</p> <ul style="list-style-type: none"> <li>• Installation of sensor-based lights is under consideration. One light has already been installed on experimental basis.</li> </ul>
3.	Give an estimate of number of lights installed in your campus along with numbers?	300 LED and Tubelights
4.	Are any alternative energy sources employed/ installed in your campus? (photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.,) Specify.	Yes, Photovoltaic cells for solar energy.
5.	Do you run "switch off" drills at campus?	No
6.	Are your computers and other equipment's put-on power-saving mode?	Yes
7.	Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?	No However they run on stand- by mode in interval of consecutive use. 5-10 min.

**IV - WATER CONSERVATION**

1.	List all the uses of water in your campus?	<ul style="list-style-type: none"> <li>• Toilets.</li> <li>• Laboratories.</li> <li>• RO/ drinking</li> <li>• Gardening</li> <li>• Cleaning and washing.</li> </ul>
----	--	---



2.	<p>How does your campus store water? (mention tanks with capacity) Are there any water saving techniques followed in your campus?</p>	<p>Institute has overhead tanks for water storage. It also has a tank at the ground level for rain -water harvesting. Signage in front of taps, using of Ac drainages to gardens, rain water harvesting.</p>
3.	<p>If there is water wastage, specify why and how can the wastage be prevented/ stopped?</p>	<p>RO drainage waters are so far not used. The decision is pending. If that water fits suitable for plant then it could be used in garden. Otherwise it can be used for washing and cleaning.</p>
4.	<p>Locate the point of entry of water and point of exit of waste water in your campus. Entry- Exit-</p>	<p>Pipe line connected with the overhead tank supply the water to the toilets and basins.  Underground pipes and drains that carry the waste water opens in the underground sewerage line of KMC.</p>
5.	<p>Write down few ways that could reduce the amount of water used in your campus?</p>	<ul style="list-style-type: none"> <li>• Using of signage at every point of water use.</li> <li>• Use of A/C drainages in the garden.</li> <li>• Use of RO drainage water for cleaning</li> <li>• By storing water through rain water harvesting and thereby using it for suitable purpose can reduce the water used.</li> </ul>
6.	<p>Record water use from the campus water meter for six months (record at the same time of each day). At the end of the period, compile a table to show how many litres of water have been used.</p>	<p>The water is not coming through water supply line. The institute has own bore well from which the water is pumped to the overhead tanks. The institute does not has any water meter installed either to record the regular</p>



		usages of water quantity. However from the regular running hours and water tank capacities we can calculate the daily water use.
7.	Does your campus harvest rain water? (Please explain the method and uses)	Yes
8.	Is there any water recycling System.	No water recycling system.

**V - CLEAN AIR**

1.	Are the Rooms in Campus are Well Ventilated?	Yes				
2.	Number of windows per room (aggregate value to be provided)	0.096(W/F in Sq.ft)				
3.	What is the ownership of the vehicles used by your institute? (Please Tick ✓ only one)	<input checked="" type="checkbox"/>	No			
		<input type="checkbox"/>	Operator-owned vehicles			
		<input type="checkbox"/>	Institute-owned vehicles			
		<input type="checkbox"/>	A combination of campus-owned and operator-owned vehicles			
4.	Provide details of institute-owned motorized vehicles?	Buses	Cars	Vans	Other	Total
	No. of vehicles	-	-	-	-	-
	No. of vehicles more than five years old	-	-	-	-	-
	No. of Air conditioned vehicles	-	-	-	-	-
	PUC done	-	-	-	-	-
5.	Specify the type of fuel used by your institute's vehicles:	Buses	Cars	Vans	Other	
	Diesel	-	-	-	-	



	Petrol	-	-	-	-
	CNG	-	-	-	-
	LPG	-	-	-	-
	Electric	-	-	-	-
6.	Air Quality Monitoring Program (If Any)	Conducted by department of Geography in recent past.			
7.	Students suffer from respiratory ailments? (If Any)	No			
8.	Details of Diesel/Gas Generator. (Rating & Make)	34KVA Kirloskar make DG set is available.			

**VI – ANIMAL WELFARE**

1.	List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.) (if any)	No domestic animals present in the college campus. However, the wildlife in college premises is diversified. Various birds (myna, wagtail, sunbird, red vented bulbul etc), Mammals (rodents, mongoose, squirrel etc) Reptiles (different snakes, garden lizards, skink etc) amphibians (frog and toads) are common. Among insect's different species of butterfly, dragon fly, beetles are predominant.
2.	How many dogs in your area have undergone Animal Birth Control - Anti Rabies (ABC - AR)?	NA
3.	Does your campus have a Biodiversity Programme or a KARUNA CLUB?	The institute has its own form of biodiversity programs but there is no karuna club.

**ATTESTED**

*[Signature]*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



**VII - ENVIRONMENTAL LEGISLATIVE COMPLIANCE**

1.	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
2.	Does your campus have any rules to protect the environment? List possible rules you could include.	The rules are: 1. Students must not pluck flowers and to damage any part of the plants in the college premises. 2. Every student shall take responsibilities so that college premises must be clean. 3. There are green and blue bins where the wastes are suggested to be disposed by the students. 4. Students must use water and electricity judiciously.
3.	Dose Environmental Ambient Air Quality Monitoring conducted by the Campus?	Yes, in recent past prior to COVID.
4.	Dose Environmental Water and Wastewater Quality monitoring conducted by the Campus?	No
5.	Dose stack monitoring of DG sets conducted by the Campus?	Yes
6.	Is any warning notice, letter issued by state government bodies?	No
7.	Dose any Hazardous waste generated by the Campus? If yes explain its category and disposal method.	Yes. Laboratories of different disciplines mainly from chemistry the hazardous waste are generated. Disposal is done by college appointed registered waste management agency. (Vital Waste)



8.	Dose any Bio medical waste generated by the Campus? If yes explain its category and disposal method.	No
----	--	----

**VIII - GENERAL**

1.	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
2.	Does your campus have any rules to protect the environment? List possible rules you could include.	Yes
3.	What is the housekeeping schedule of garden and common areas in your campus?	Daily cleaning.
4.	Are students and faculties aware of environmental cleanliness ways? If Yes Explain	Yes. Apart from regular cleaning programme, the institute conducts cleaning programmes through NSS unit which involve teachers and students of various disciplines in cooperation of cleaning personnel and sweepers.
5.	Does Important Days Like World Environment Day, Earth Day, and Ozone Day etc. celebrated in your Campus?	Yes.
6.	Does Campus participated in National and Local Environmental Protection Movement?	Yes
7.	Does Campus has any Recognition/certification for environment friendliness?	No
8.	Does Campus using renewable energy?	Yes, Solar Energy.
9.	Does Institution conducts a green/environmental audit of its campus?	No

**ATTESTED**

*[Signature]*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



10.	Has the institution been audited/ accredited by any other agency such as NABL, NABET, TQPM, NAAC etc.?	NAAC
-----	--	------

ATTESTED  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Recommendations

- Environment Policy to be adopted by the college.
- Water Meter should be installed at the bore well and daily consumption of water shall be recorded to keep a check on water usage.
- Equipments when not in use shall be switched off and should not run in standby modes or ideal.

ATTESTED  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Photographic Evidences



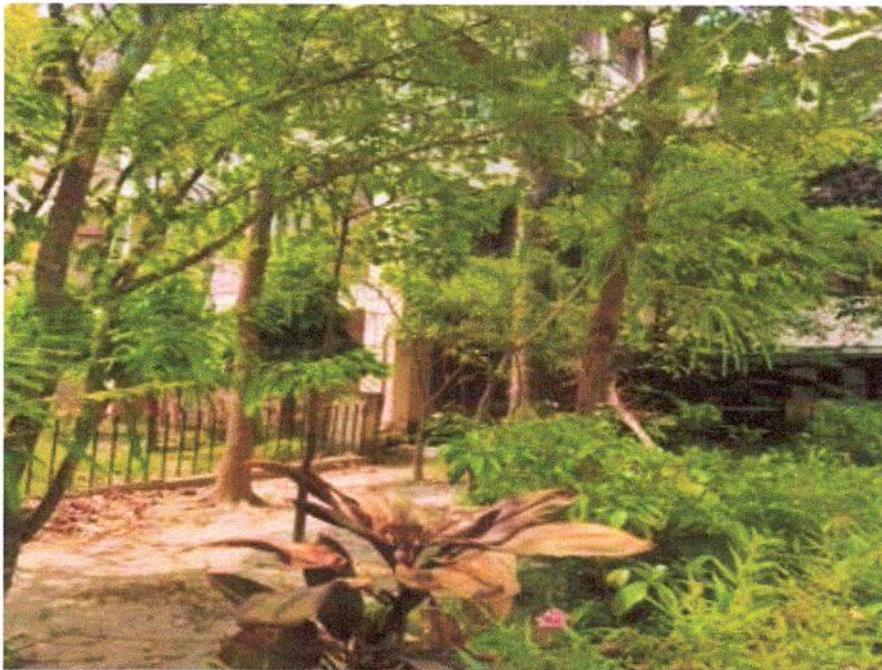
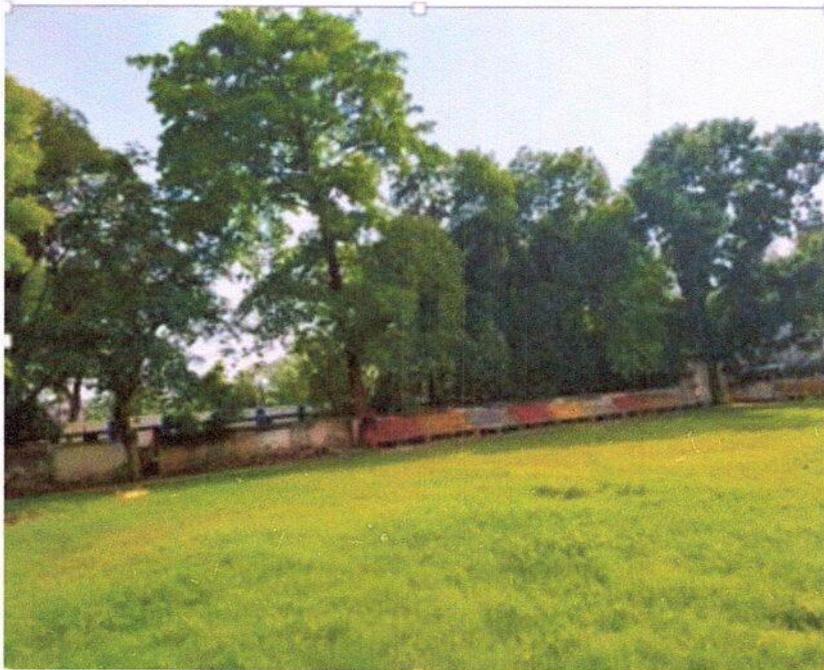
Solar Power Plant

ATTESTED

*Pana*  
Principal

Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin

Kolkata-700\_094  
Page | 26



Tree Plantation

ATTESTED  
*[Signature]*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



Green Campus

*Jana*



## Conclusion

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to Environmental aspects. Overall, 60% of university campus is for landscaping. The audit has identified several observations for making the campus premise more environmentally friendly. The recommendations are also mentioned with observations for university campus team to initiate actions.

The audit team opines that the overall site is maintained well from environmental perspective. There are no major observations but recommendation is made in this report which would further strengthen the goal to achieve 100% environment friendly campus.

ATTESTED

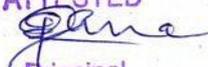
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## References

- The Environment [Protection] Act – 1986 (Amended 1991) & Rules-1986 (Amended 2010)
- The Petroleum Act: 1934 – The Petroleum Rules: 2002
- The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle
- Rules:1989 (Amended in 2005)
- Energy Conservation Act 2010.
- The Water [Prevention & Control of Pollution] Act – 1974 (Amended 1988) & the Water (Prevention & Control of Pollution) Rules – 1975
- The Water [Prevention & Control of Pollution] Cess Act-1977 (Amended 2003) and Rules- 1978
- The Air [Prevention & Control of Pollution] Act – 1981 (Amended 1987) The Air (Prevention & Control of Pollution) Rules – 1982
- The Gas Cylinders Rules – 2016 (Replaces the Gas Cylinder Rules – 1981)
- E-waste management rules 2016
- Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)
- The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules, 2008 (Amended 2016)
- The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)
- The Batteries (Management and Handling) rules, 2001 (Amended 2010)
- Relevant Indian Standard Code practices

End of Report

ATTESTED  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Elion Technologies & Consulting Private Limited

Registered Office:

307, 3rd Floor, DDA Lal Market, H-Block

VikasPuri, New Delhi-110018

Phone No: 011-28541888,9013890526

Email: support@elion.co.in

Website: www.elion.co.in

ATTESTED  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

### DISCLAIMER

All information contained in this report is based on the data available and observations made during the audit. All recommendations made in this audit report should be duly evaluated by the management before implementation.

No warranty, guarantee, or representation, either expressed or implied, is made as to the correctness or sufficiency of any representation contained herein. This report may not address every possible loss potential, violation of any laws, rules or regulations, or exception to good practices and procedures. The absence of comment, suggestion, or recommendation does not mean the property or operation(s) is in compliance with all applicable laws, rules, or regulations, is engaging in good practices and procedures, or is without loss potential. No responsibility is assumed for the discovery and/or elimination of hazards that could cause accidents or damage at any facility that is subject to this report.

# Elion Technologies & Consulting Pvt Ltd

## Certificate

This is to certify that **Environment Audit** at **Sammilani Mahavidyalaya, Eastern Metropolitan Bypass, Baghajatin, Kolkata, West Bengal, 700094** was carried out for the year **2021 - 22**.

The campus has submitted necessary data and credentials for scrutiny. It is found that the college is an oxygen tank. The college also has rain water harvesting system which is helping in maintaining underground water table in the campus.

ATTESTED

  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

Audit Date – 17/03/2022  
Valid Up to – 16/03/2023

  
Audit Officer

Certificate Number  
ENV /2022/SM



# Sammilani Mahavidyalaya

( NAAC ACCREDITED B++ )

[AFFILIATED TO CALCUTTA UNIVERSITY]  
E. M. BYPASS, BAGHAJATIN,  
KOLKATA - 700 094

Phone : 2462-6869

E-mail :

principal.sammilani@gmail.com

info@sammilanimahavidyalaya.org

Website :

www.sammilanimahavidyalaya.org

12.04.2022

Ref.No.....

Date .....

## Notice

A meeting of the Internal Quality Assurance Cell (IQAC) will be held on Tuesday, April 19, 2022 at 2.30 p.m. in the IQAC Room to consider the agenda mentioned below. All the esteemed members are requested to attend the meeting at the appointed time and date.

1. Confirmation of the minutes of the first meeting of the reconstituted IQAC held on 7<sup>th</sup> February 2022.
2. Report of the Coordinator on the progress of AQAR 2020-21 preparation including status of different criteria as submitted by the respective Advisors and team members, for submission to NAAC within 15.05.2022.
3. More collaborations/linkages with Academia and Industry through signing of MoU.
4. Procurement of various e-journals, e-books and e-resource in the library of the college.
5. **Introducing of Green Audit and Energy Audit in the college.**
6. Procurement of branded computers with original operating system and a projector for IQAC room.
7. Miscellaneous, if any.

*Srikanta Malakar*

Dr. Srikanta Malakar

(Coordinator, IQAC)

Coordinator  
IQAC

Sammilani Mahavidyalaya  
E. M. By Pass, Baghajatin  
Kolkata-700 094

*Sharmila Chakraborty*

Dr. Sharmila Chakraborty

(Teacher-in-Charge)

Teacher-In-Charge

Sammilani Mahavidyalaya

E.M. Bypass, Baghajatin

Kolkata-700094

ATTESTED

*Para*

Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



# Sammilani Mahavidyalaya

( NAAC ACCREDITED B++ )

[AFFILIATED TO CALCUTTA UNIVERSITY]  
E. M. BYPASS, BAGHAJATIN,  
KOLKATA - 700 094

Phone : 2462-6869

E-mail :

principal.sammilani@gmail.com  
info@sammilanimahavidyalaya.org

Website :

www.sammilanimahavidyalaya.org

Ref.No.....

Date ..... 19.04.2022

## Minutes of the second meeting of the IQAC held on Monday, 19<sup>th</sup> April, 2022 at 2.30 p.m. in the IQAC Room

The meeting commenced with the Teacher-in-Charge taking the chair. The agenda were taken up for discussion one by one and the following resolutions were adopted.

1. The minutes of the last meeting held on 07.02.2022 were read and confirmed.
2. Dr. Srikanta Malakar, Coordinator of the IQAC, reported on the progress of AQAR 2020-21 preparation including status of different criteria as submitted by the respective Advisors and team members, for submission to NAAC within 15.05.2022. He expressed his hope that the AQAR 2020-21 would be submitted within the stipulated time.

After a thorough discussion regarding the progress in preparing the AQAR 2020-21, the members expressed their satisfaction and appreciated the Coordinator for his leadership. It was resolved unanimously that the Coordinator be requested to carry on with the diligent effort so that the submission of AQAR 2020-21 might be done within the stipulated time.

3. The members agreed to the proposal of the Coordinator regarding the necessity of more collaborations/linkages for Faculty exchange, Student exchange, Internship of students, Field trip, On-the- job training, Research, etc. with Academia as well as Industry, and resolved that the Teacher-in-Charge be requested to take necessary initiative in this regard including signing of Memorandum of Understanding (MoU) with other institutions/industry, wherever required.

ATTESTED

  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

4. Resolved unanimously that the proposal of Dr. Bapan Kumar Maity, Librarian of the college, for procurement of various e-journals, e-books and e-resources in the library, be approved and he be entrusted with the responsibility of carrying out the procurement process.
5. Resolved unanimously that conducting Green Audit, Energy Audit, Water Audit and Environment Audit in the college, be approved and Sri Debasish Roy, Head, the Department of Zoology, be requested to initiate the necessary process as soon as possible.
6. Resolved unanimously that the procurement of two branded desktop computers with original operating system and a projector for the IQAC room, be approved; and Dr. Malay Roy, Bursar of the college, be entrusted with the responsibility of carrying out the procurement process.
7. Resolved unanimously that the proposal of Sri Nimal Kumar Samanta, Headmaster, Ghutiari Sharif B M Vidyapith (HS) and an external member in the IQAC, of opening a new YouTube Channel of the college for uploading college-related audio, video, webinars, etc., be approved.

As there was no other agendum to discuss, the meeting ended with a vote of thanks to the chair.

*Santa Malakar*

Dr. Srikanta Malakar

(Coordinator, IQAC)

Coordinator  
IQAC

Sammilani Mahavidyalaya  
E. M. By Pass, Baghajatin  
Kolkata-700 094

*Sharmila Chakraborty*  
Dr. Sharmila Chakraborty

(Teacher-in-Charge)

Teacher-in-Charge  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700094

ATTESTED

*Jana*

Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



# GREEN AUDIT REPORT FOR SAMMILANI MAHAVIDYALAYA



**Elion Technologies & Consulting Private Limited**

307, 3<sup>rd</sup> Floor, DDA Lal Market, H-Block  
Vikas Puri, New Delhi-110018

ATTESTED  
*Pana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Table of Contents

Content	Page No.
Acknowledgement	3
Site Information	4
Overview of Institute	5
Introduction	7
Environment Setting	8
Green Audit	10
Recommendations/Suggestions	19
Annexure 1 – Indoor Gardening Details	22
Disclaimer	26

ATTESTED  
*Jane*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Acknowledgment

Elion Technologies and Consulting Pvt Ltd places on record it's thanks to Sammilani Mahavidyalaya for entrusting the task of conducting green audit study.

We acknowledge with gratitude the whole hearted support and cooperation extended by all team members while carrying out the study.

ATTESTED  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Site Information

Name of College	Sammilani Mahavidyalaya
College Address	Eastern Metropolitan Bypass, Baghajatin, Kolkata, West Bengal, 700094
Execution Partner	ELION Technologies & Consulting Pvt Ltd
Communication Address	307, 3rd Floor DDA Lal Market H-Block Vikas Puri, New Delhi-110018
Date of Audit	17 <sup>th</sup> March 2022
Year of Audit	2021 - 2022
Audit Participants	Dr. Sharmila Chakraborty – Teacher In Charge Prof. Debashish Roy – Coordinator of Quality Audits Dr. Srikanta Malakar – IQAC Coordinator Dr. Ananda Mukherjee – Associate Professor, Commerce Prof. Uttam Kumar Ghosh – Associate Professor, Commerce Prof. Lypsy Mohanty Roy – Assistant Professor, Pol. Sc. Prof. Brototi Mondal – Assistant Professor, Computer Sc. Shri Rajesh Das (Electrician) Premanshu Purkait and Tarapada Das – Cleaning Agency appointed personnel
Total College Area	8093 sq. mt.
Total Green Area	5417.25 sq. mt.

ATTESTED  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Overview of Institute

Sammilani Mahavidyalaya was established on 12th of December, 1996 by the initiative of some academic entrepreneurs, with a definite objective to impart knowledge and skill to the young generation of the locality. Along with those academicians, enthusiasts from all sections of the society also rendered their active co-operation in this selfless venture. Initially the college started functioning from a local secondary school, Santoshpur Vidyamandir (Boys) and the classes were held in the evening. Within a record period of only seven months, the new building was constructed and the college shifted to its present address. On 5th June 2003, UGC granted the college the status to receive financial assistance under the rule U/S 12(B) of the UGC Act. 1965. The college has been accredited by the National Assessment and Accreditation Council in 2005 and awarded Grade 'B' and Grade 'B++' in the year 2016. It has also been assessed by the Department of Higher Education, Govt. of West Bengal in January, 2010 under the State Level Assessment Programme (SLAP). The college, which started with only three students, is now bustling with more than 2000 students in the different departments of Arts, Science and Commerce faculties. The active and moral support of Sri. Buddhadeb Bhattacharjee, former Chief Minister of West Bengal, the unyielding devotion of Sri Kanti Bhushan Ganguly, former Minister of Sunderban Affairs, Govt. of West Bengal (and also the erstwhile Secretary of the Preparatory Committee of the college), the sincere dedication and guidance of Late Prof. Ramaranjan Mukhopadhyay and Prof. K.P. Majumder and the efforts and services rendered by all those persons who are associated with the college in one way or the other have helped the college to attain present position as one of the leading academic institutions in the locality. Today the college is on the fast track of progress and success. Yet, there are many miles to tread before our dream becomes true, before our vision materialises into reality.

### List of programs offered by the institute:

Following are the list of undergraduate courses offered by the institute-

Three year degree programmes in:

**A. Arts**

History, Geography, Political Sciences, Sanskrit, Education, English, Bengali, Philosophy, Economics.

**B. Science**

Computer Science, Microbiology, Physics, Chemistry, Zoology, Botany, Mathematics.

**C. Commerce**

**ATTESTED**  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

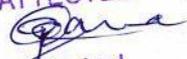


**List of the Facility Building:**

Total Area: 8093 sq.mt (2 Acre)

Green Area: 5417.25 sq.mt

Building Name	Areas	Number of Floors
Main Block including West Block	1103 sq. mt.	4
West Block	484.4 sq. mt.	3
New Block	559 sq. mt.	2
Annex building	197 sq. mt.	2
Space among the blocks	332.35 sq. mt.	

ATTESTED  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Introduction

Green Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of institute. It aims to analyse environmental practices within and outside of the concerned place, which will have an impact on the eco-friendly atmosphere. Green audit is a valuable means for a college to determine how and where they are using the most energy or water or other resources; the college can then consider how to implement changes and make savings. 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 college 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 institutes which will lead for sustainable development and at the same time reduce a sizable amount of atmospheric CO<sub>2</sub> from the environment. The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory that all Higher Educational Institutions should submit an annual Green Audit Report. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the reduction of global warming through carbon footprint reduction measures.

### Advantages of Green Audit:

Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade A, Grade B or Grade C according to the scores assigned at the time of accreditation. Some main advantages of green Audit are:

- It helps to shield the environment.
- Minimizing the waste and managing the cost.
- Authenticate conformity with the implemented laws.
- Minimizing the energy consumptions and focus on green and clean energy.
- Ambient Environmental Condition.
- Awareness and Training on Sustainability for Students.
- Awareness about environmental guidelines and duties.

ATTESTED  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Environment Setting

The land use around the campus is mix of residential and institutional area. Schools, Restaurants, Housing Complexes and other institutes are present around the campus.



Sammilani Mahavidyalaya Campus

ATTESTED  
*[Signature]*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

**SAMMILANI MAHAVIDYALAYA**

E.M. Bypass, Baghajatin, Kolkata, West Bengal

Green Audit Report No: GA17032022



**Location of Sammilani Mahavidyalaya Campus**

ATTESTED  
*Pana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Green Audit

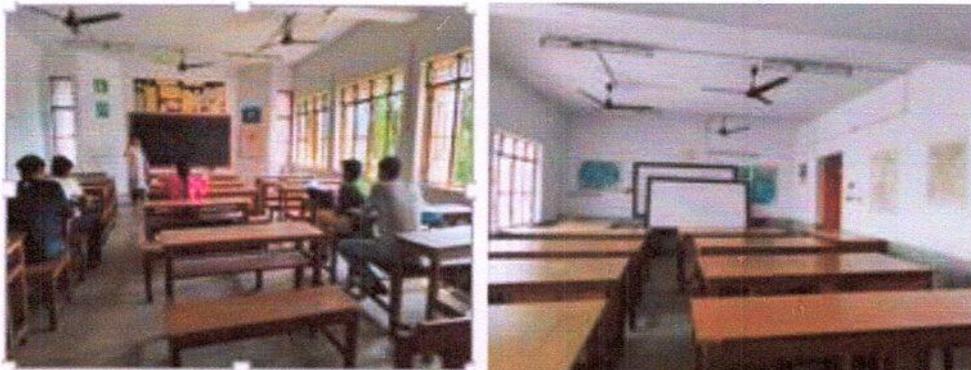
For Green Audit following 13 major areas (including their subsections) were covered and compliance/ initiatives under these areas were verified/ validated.

- a) Good Daylight Design and Ventilation
- b) Water Efficiency
- c) Wastewater Management
- d) Indoor Air Quality
- e) Energy Efficiency
- f) On-site Energy Generation
- g) Temperature and Acoustic Control
- h) Paper Waste Management
- i) E-Waste Management
- j) Canteen and Solid Waste Management
- k) Universal Access and Efficient Operation and Maintenance of Building
- l) Green Belt
- m) Green Programs (Green initiatives)

### 3.1 Good Daylight Design and Ventilation

- a) Corridors are wide with good ceiling height. All the corridors receive good daylight.
- b) Classrooms, Labs and Library have large windows. Adequate daylight is received through the windows during daytime.
- c) Classroom walls, corridors and labs are white-washed, this enhances the daylight received.
- d) Curtains are provided on some of the windows to avoid glare.
- e) Laboratories and washrooms are provided with exhaust fans to disperse heat, fumes and odors.
- f) Stair cases receive daylight through windows provided at various levels.

ATTESTED  
*Jana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



Good Daylight in Classrooms and Labs



Daylight in Staircases

### 3.2 Water Efficiency:

- a) Borewell is used for water supply in the campus.
- b) Water from borewell is stored in 8 overhead tanks of capacity 4KL and 2KL each.
- c) Normally mops are used for floor cleaning and hose is used for cleaning once a week
- d) Dual flushing system is not provided in the washrooms.
- e) Signages are provided in washrooms emphasizing water conservation.
- f) Water from air conditioning unit is used in gardening.
- g) Rain water harvesting system is available in the campus.
- h) Water conservation taps were not installed in the washrooms.

ATTESTED  
*Parna*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



Water conservation signage present



Normal taps and faucets

### 3.3 Wastewater Management:

- i) Waste water or sewage treatment plant is not available in the campus.

### 3.4 Indoor Air Quality;

Indoor Air Quality (IAQ) refers to the air quality within and around buildings and structures, as it relates to the health and comfort of building occupants. Some common indoor pollutant are listed as below:

ATTESTED  
*Gana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



- Molds and other allergens – This may arise from water seeping into the building envelope or skin, plumbing leaks, condensation due to improper ventilation, or from ground moisture penetrating a building part.
- Carbon monoxide – Sources of carbon monoxide are incomplete combustion of fossil fuels.
- Volatile organic compounds (VOCs) – VOCs are emitted by paints and lacquers, paint strippers, pesticides, office equipment such as copiers and printers, correction fluids and carbonless copy paper, graphics and craft materials including glues and adhesives, permanent markers, and photographic solutions etc.
- Carbon dioxide – Due to human respiration
- Particulate matter – Due to construction and maintenance activities

Major observations under indoor air quality are as below:

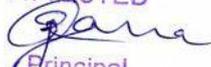
- a) In classrooms the mode of ventilation is natural (through windows) and is enhanced by fans. Air conditioners are used in some of rooms such as offices, labs, computer labs, computer server room etc.
- b) Heating Ventilation and Air Conditioning (HVAC) system does not exist. Split and Windows Air conditioners are used.
- c) Indoor plants are seen in the College. Indoor plants can be plotted not only for the aesthetic appearance but also for health benefits. Refer Annexure 1 for details.
- d) Indoor air quality signages were not present in the campus.
- e) Green belts have been set up in campus area.

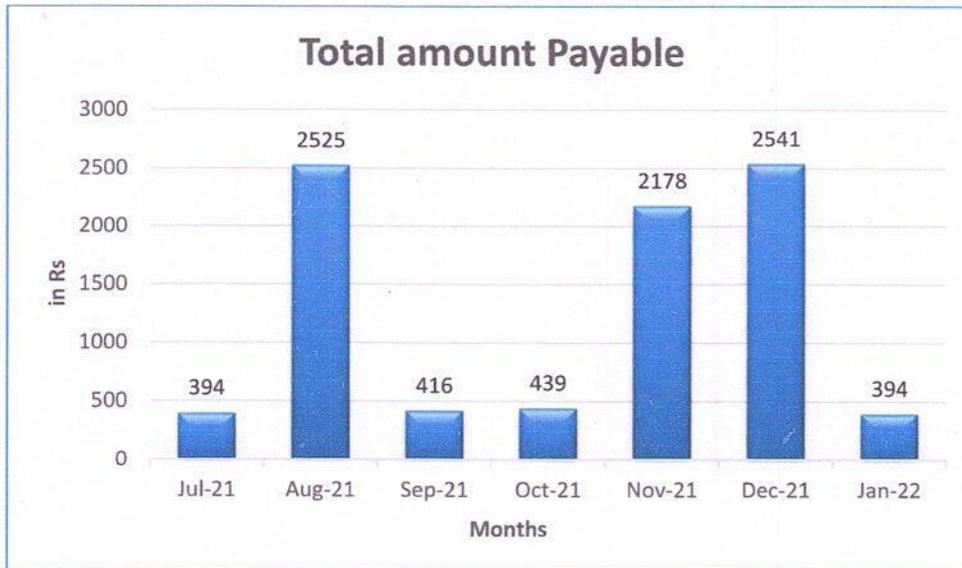
### 3.5 Energy Efficiency:

#### Electricity:

Power is supplied by CESC Limited. The major electricity consuming equipment installed in the campus are Windows and Split AC, Submersible Motor, Motors, RO Plant, Desktop, Printer, Fan, Tube light, LED Bulb etc.

Following is details of energy consumption:

ATTESTED  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



It was observed that:

- LED lights are used at majority of the places.
- Campus has air conditioners which are in good working condition.
- Solar power plant is also installed in the campus.



Solar Power Plant

ATTESTED  
*[Signature]*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



LED lights

### 3.6 On Site Energy Generation (usage of LPG/ Natural Gas):

- a) LPG is provided in the canteen for cooking.
- b) Back Up diesel generator of rating 34KVA is present although the running hours of generator is pretty low..

### 3.7 Temperature and Acoustic Control

- a) White washed rooms & corridors and white/ off-white flooring improve the lighting conditions.
- b) The entire campus has green area.
- c) Two flower gardens and one medicinal plants garden are present in the college premises. Apart from these, plants of various types are planted in different locations in the college campus.

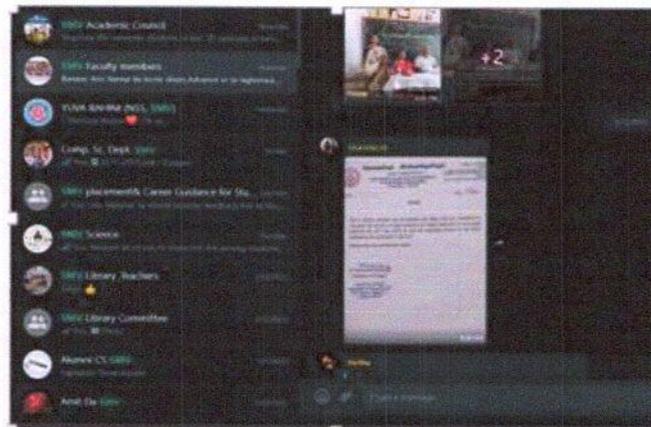
### 3.8 Paper Waste Management:

Being academic institution, waste paper is the main solid waste generated in the premises. The College has taken steps to minimize and avoid paper usage. It was observed that:

- a) Prints and photocopies are taken on both sides of the pages to avoid excess paper usage. Rather than photocopy, digitalization (scanning) is practiced.
- b) Internal notices and communications are through E-mail/Whatsapp.
- c) Faculty and administration staff uses old papers and envelopes for internal usages as rough work, file markers, page separators etc.
- d) Paper notices are displayed on the notice boards.



Paper Notices



Internal Communication

### 3.9 E-Waste Management:

- a) M/s. Redivivus Recyclers Private Limited, is engaged in managing the e waste and some other waste materials like papers, flat boards, plastic bottles, metals (aluminium, copper etc ), chemical/ hazardous waste, electronic waste etc.

### 3.10 Solid Waste Management:

It was observed that:

- a) Wet waste and dry waste segregation is practised in the premises. Separate bins are provided for wet biodegradable and dry recyclable waste.
- b) Non E- waste, used papers, flat boards, plastic bottles, metals (aluminum, copper etc.), chemical/hazardous waste, electronic waste are disposed by authorised

ATTESTED  
*[Signature]*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



management companies appointed by the Institution. Biodegradable waste is mainly generated in canteen.

- c) Composting Regular house hold waste materials like small packets, plastic, scrap foods and collected in blue and green bins. Wastes from regular anthropogenic activities are collected by the institution appointed cleaning agency personnel through green and blue bins placed in different points within college premises. The wastes therefore placed in Kolkata Municipality Corporation scheduled dumping - yard, from where KMC collect waste for processing and recycling, as applicable.

### 3.11 Universal Access and Efficient Operation and Maintenance of Building:

It was observed that:

- a) College is easily accessible. Staircase and ramps are provided for staff and students.
- b) Since the access and staircases are wide and uncluttered, it is possible to have a safe evacuation during emergency.
- c) Fire extinguishers are provided for emergency. They are inspected and serviced by fire protection Service Company annually.
- d) Directional exit signages and floor markings are present on every floor of the campus.
- e) Regular Fire Safety Trainings shall be given to staff and students on annual basis.



Ramps present in campus

ATTESTED  
*[Signature]*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



Fire extinguishers and directional exit signages

### 3.12 Green belt/ Landscaping:

- a) Large trees and plants are planted in the premises. Plantation also helps maintaining lower temperatures of the area.

### 3.13 Green Initiatives:

Yes, various types of Cultural programmes are conducted on regular intervals.

ATTESTED  
*Jana*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Recommendations/Suggestions

### For Improving Energy Consumption:

- a) Every classroom and lab with central switch board can have a diagram linking location of a tube light, fan etc. with corresponding switch. This will ensure that correct fitting is switched on/ off and can save time & unnecessary operation.
- b) Installation of automatic lights with sensors can be considered.
- c) Standard Operation Procedures (SOPs) should be prepared and followed for green purchasing. Equipment with star rating, using eco-friendly materials; with safe disposal policy to be preferred. Policy of returning equipment at the end of life span to the supplier to be preferred.
- d) For purchasing new electronic appliances, star rating provided by Bureau of Energy Efficiency (BEE) should be considered. The equipment which has maximum star ratings could be purchased, which will consume less energy, ensure environmental sustainability and also operate at low cost.
- e) Usage of light reflectors is recommended as the reflectors can spread light to relatively large areas.
- f) If possible, computers should be switched off from main power connections.
- g) Notices/signages can be put up/displayed near switches and on notice boards, informing students and staff to switch off all electricals when not in use.
- h) Control sensors can help to reduce consumption by automatically dimming lights when people are not around, and keeping blinds open to use natural light & reduce energy consumption.
- i) Raise awareness:
  - Encourage students to help in monitoring energy consumption & implement corrective actions
  - Integrate energy education into classroom learning.

### Water Conservation:

- a) Provide information on water usage and savings to students/ staff through notices, screen savers in computer labs.
- b) Dry sweep or use a sponge broom when possible, instead of using a hose to clean floors, sidewalks, or other hard surfaces.
- c) Minimize/ reduce water usage by installing water saving faucets such as pressmatic taps, tap aerators, jet sprays etc.
- d) Installation of waterless urinals can be considered to reduce water consumption.



- e) Water balance diagram can be prepared to quantify the water consumption by installing water meters at key points. Based on data gathered, appropriate measures can be taken to reduce the water consumption.

#### **Paper and other Solid Waste Reduction:**

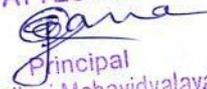
- a) Inventories of all solid waste generated in the premises must be maintained.
- b) Enhance recycling. This can be done by creating a group where students can recycle books, personal clothes and other material to needy students. This can be an initiative under green program.
- c) Standard Operating Procedures (SOP) for Solid and E-waste management and for recycling of waste should be prepared & practiced. The SOP's may include collection, segregation and reuse of different types of wastes, if any (e.g. biodegradable waste for composting). This will help in safe disposal of waste to recycle agencies.
- d) Training as well as awareness programs should be organized on segregation of biodegradable waste and recycling of waste. Efforts should be taken to inform students about recycling options and signs should be posted on appropriate bins indicating what could be dumped in each bin.
- e) The college can introduce online app, which can be useful for conducting internal exams, assignment/ reports submission. This system can also be used for displaying important notices, timetables.
- f) Paper usage shall be monitored to understand the impact of digitization in the facility.

#### **Others:**

- a) Environmental advisory committee could be formed. The discussions/ information sharing among different departments can generate lot of ideas and awareness on green issues.
- b) Maintain minutes of meetings of environmental committees; evaluate the effectiveness of various environmental programs conducted by the institutes. Set annual targets for Green Initiatives & monitor them closely. Create 'Green Champions'.
- c) Since each student uses computer lab, the screen savers can be set up for creating environmental awareness. (Ergonomics, water conservation etc.). Short 30 second pop up can be displayed on computer screens when they are on standby mode. Or wallpapers informing students about environment conservation can be created.



- d) Consider detailed energy audit (energy consumption, thermal emission, visual comfort) and water audit.
- e) Adopt environmentally responsible purchasing policy, and work towards creating and implementing a strategy to reduce environmental impact of its purchasing decision.

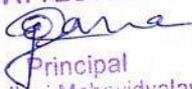
ATTESTED  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Annexure 1 – Indoor Gardening Details

Indoor plants are commonly used for their aesthetics benefits but they also have vital role reducing airborne pollution. The right choice of plants can be an excellent way of improving indoor air quality and general health. Local landscape contractor can be contacted for supply and rotation of these plants.

Plants	VOC it removes	Indoor source of VOC's	Plant care
 Aloe Vera	Formaldehyde, Trichloroethylene and Benzene	Chemical based cleaners and paints	Easy to grow with enough sunlight
 Bamboo Plant	Formaldehyde, Trichloroethylene and Benzene	Paints, Plastics, Wood products etc.	Thrives under low light conditions as well as easy to maintain
 Chinese Evergreen	Benzene	Paints	Low maintenance plant that prefers low light conditions.

ATTESTED  
  
 Principal  
 Sammilani Mahavidyalaya  
 E.M. Bypass, Baghajatin  
 Kolkata-700 094

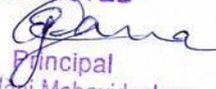


 <p>English Ivy</p>	<p>Formaldehyde, Benzene, Air borne fecal matter particles</p>	<p>Wood, Paper products, Air borne fecal – matter particles from pests</p>	<p>Easy to maintain</p>
 <p>Janet Craig</p>	<p>Formaldehyde, Benzene and Trichloroethylene</p>	<p>Paints, Plastics, Wood products etc.</p>	<p>Medium to low light tolerant plant. Requires little water for growth.</p>
 <p>Golden Pothos or Devils Ivy</p>	<p>Formaldehyde, Cleanses air</p>	<p>Exhaust fumes, carpeting materials, panelling and furniture products made with particle board</p>	<p>Extremely easy to maintain under low to bright light conditions. Fast growing and grows well under Fluorescent light.</p>
 <p>Mass Cane</p>	<p>Formaldehyde, benzene and trichloroethylene</p>	<p>Paints, Plastics, Wood products etc.</p>	<p>Medium to low light tolerant plant. Requires little water for growth.</p>

ATTESTED  
  
 Principal  
 Sammilani Mahavidyalaya  
 E.M. Bypass, Baghajatin  
 Kolkata-700 094



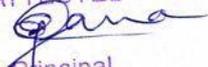
 <p>Snake plant</p>	<p>Formaldehyde and trichloroethylene</p>	<p>cooking fuels, wood products, facial tissues, personal care products and waxed papers</p>	<p>Drought resistant and Tolerates a variety Of light conditions. Hard to damage or kill.</p>
 <p>Peace Lily</p>	<p>Formaldehyde, benzene and trichloroethylene</p>	<p>Paints, Plastics, Wood products etc.</p>	<p>Relatively easy to maintain. Survives in low light conditions.</p>
 <p>Red-edged Dracaena</p>	<p>Formaldehyde and trichloroethylene</p>	<p>cooking fuels, wood products, facial tissues, personal care products and waxed papers</p>	<p>Drought resistant and Tolerates a variety of light conditions. Hard to damage or kill.</p>
 <p>Spider Plant</p>	<p>Formaldehyde, benzene, carbon monoxide and xylene</p>	<p>cooking fuels, wood products, Printing</p>	<p>Easy to maintain under medium to bright light condition.</p>

ATTESTED  
  
 Principal  
 Sammilani Mahavidyalaya  
 E.M. Bypass, Baghajatin  
 Kolkata-700 094



	Purifies indoor air	-	Easy to maintain
---	---------------------	---	------------------

Parlor Palm

ATTESTED  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094



## Elion Technologies & Consulting Private Limited

Registered Office:

307, 3rd Floor, DDA Lal Market, H-Block

VikasPuri, New Delhi-110018

Phone No: 011-28541888, 9013890526

Email: support@elion.co.in

Website: www.elion.co.in

ATTESTED  
*Gane*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

### DISCLAIMER

All information contained in this report is based on the data available and observations made during the audit. All recommendations made in this audit report should be duly evaluated by the management before implementation.

No warranty, guarantee, or representation, either expressed or implied, is made as to the correctness or sufficiency of any representation contained herein. This report may not address every possible loss potential, violation of any laws, rules or regulations, or exception to good practices and procedures. The absence of comment, suggestion, or recommendation does not mean the property or operation(s) is in compliance with all applicable laws, rules, or regulations, is engaging in good practices and procedures, or is without loss potential. No responsibility is assumed for the discovery and/or elimination of hazards that could cause accidents or damage at any facility that is subject to this report.

# Elion Technologies & Consulting Pvt Ltd

## Certificate

This is to certify that **Green Audit** at Sammilani Mahavidyalaya, Eastern Metropolitan Bypass, Baghajatin, Kolkata, West Bengal, 700094 was carried out for the year 2021 - 22.

The college has submitted necessary data and credentials for scrutiny. The activities and measures carried out by the college have been verified. The efforts taken by the college towards environment and sustainability are highly appreciated and commendable.

**ATTESTED**  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700 094

Audit Date – 17/03/2022  
Valid Up to – 16/03/2023

  
Audit Officer

Certificate Number  
GA/2022/SM



## NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL, BENGALURU

F. No. 14-29/2022

26<sup>th</sup> May 2022

### Advisory on ISO 9001/Green Certificates/Audits

As per the resolution of 96<sup>th</sup> meeting of the Executive Committee of NAAC held on 26<sup>th</sup> May 2022, in the manuals for Self-Study Report for institutional accreditation there are couple of metrics on quality audit; green audit, energy audit, and environmental audit;

This has led to several institutions going for certifications and falling prey to unscrupulous private certifying/audit agencies issuing certificates to unsuspecting academic institutions.

It is informed that there is an international system of accreditation of such audit/certifying agencies in which the National Accreditation Board of Certification Bodies (NABCB), a constituent Board of the Quality Council of India, attached to the Ministry of Commerce & Industry, is member from India (website - <http://nabcb.qci.org.in/index.php>). The international system for certification operates under the aegis of the International Accreditation Forum (IAF) and its member accreditation bodies (ABs) are listed on its website [iaf.nu](http://iaf.nu). Similarly, for inspection/audit, which is a one-time activity, the international system is operated under the International Laboratory Accreditation Cooperation (ILAC) of which also NABCB is a member. A list of ILAC members can be seen on its website <https://ilac.org/>

It is therefore advised that the following should be observed:

1. It should be ensured that the ISO 9001 certificates are from certifying agencies accredited either by NABCB or any member AB of IAF. The certificate should carry the logo of the AB concerned.
2. There is now an ISO standard for educational institutions, ISO 21001, and institutions may obtain certification under this standard from any certifying agency as mentioned in 1. above in lieu of ISO 9001 certification.

ATTESTED

*Gana*

Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700094

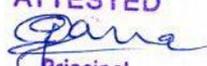
3. As for green certification, there are recognized standards such as ISO 14001 for environment management systems or ISO 50001 for energy management systems which promote green practices and certificates to these may be obtained following advice in 1. above.
4. Any other certification claimed to be green certification should be to a recognized standard and the agency should be accredited as mentioned in 1. above
5. In case any institution goes for a one-time green audit, it should ensure that the agency is accredited as per ISO 17020 for a recognized standard/criteria for green audits by NABCB or any member of ILAC and the report/certificate carries logo of the AB.

**The logo of the AB on the certificate ensures that the audit/certifying agency is accredited for auditing/certifying educational institutions and hence essential.**

All academic institutions who have already obtained such certificates should check that they have authentic certificates and if not, ensure that these are replaced as per above advisory within one year.

In case of any doubts, academic institutions may consult NABCB at [nabcb@qcin.org](mailto:nabcb@qcin.org).

Sd/-  
Director, NAAC

ATTESTED  
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700094

प्रो. पी. क्रिस्टोफर सेल्विन  
कुलसचिव

Prof. P. Christopher Selvin  
Registrar



होमी भाभा राष्ट्रीय संस्थान  
प्रशिक्षण विद्यालय परिसर, अणुशक्तिनगर, मुंबई-400 094, भारत  
**Homi Bhabha National Institute**  
Training School Complex, Anushaktinagar,  
Mumbai – 400 094, India  
Tel. No. 91-22-25597627 ● Mob.: 9486243082  
Email: registrar@hbni.ac.in ● pcselvin@hbni.ac.in

Ref. HBNI/RO/2023/432

28<sup>th</sup> March, 2023

### GREEN AUDIT - CIRCULAR

The National Assessment and Accreditation Council (NAAC), Bengaluru has imposed a couple of metrics under the “ **Criterion VII - Institutional Values and Best Practices** ” for institutional accreditation (Self Study Report), as follows.

*7.1.6 Quality audits on environment and energy are regularly undertaken by the institution*

*7.1.6.1 The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following.*

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions/awards and
5. Beyond the campus environmental promotional activities

It is mandatory for all the Higher Educational Institutions being assessed and accredited by NAAC to undertake Green audits, Energy audits, and Environment audits by an authorized agency annually. The audit reports are required for AQAR submission purposes. HBNI also needs all these reports during the next cycle of NAAC accreditation in 2026. Hence, all the CIs/OCC of HBNI are requested to take the necessary steps to complete the above Audits on or before 30<sup>th</sup> October 2023. Please refer to the NAAC advisory (F.No.14-29/2022, dated. 26<sup>th</sup> May 2022), attached herewith, for further details.



*P.C.Selvin* 28/3/23

Prof. P.C. Selvin  
Registrar, HBNI

Encl.

Copy of Advisory (F.No.14-29/2022 dt. 26<sup>th</sup> May 2022) from NAAC

To  
All the Directors of CIs/OCC  
All Deans-Academic of CIs/OCC

**ATTESTED**  
*[Signature]*  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata-700094



# Sammilani Mahavidyalaya

( NAAC ACCREDITED B++ )

[AFFILIATED TO CALCUTTA UNIVERSITY]  
E. M. BYPASS, BAGHAJATIN,  
KOLKATA - 700 094

Phone : 2462-6869

E-mail :

principal.sammilani@gmail.com

info@sammilanimahavidyalaya.org

Website :

www.sammilanimahavidyalaya.org



Ref.No.....

Date .....

Ref.N

Minutes of the Governing Body Meeting  
held on 06.04.2022.

## Miscellaneous:

- i) The new members in the Governing Body enquired of the agreements of the College with Punjab National Bank, Post Office. Medicine shop and Photocopy centre operating in the college premises. Resolved that Sri Amed Sardar, Accountant and member of the Governing Body be requested to submit a complete report with supporting documents to the Governing Body about the agreements with Punjab National Bank, Post Office, Medicine shop and Photocopy centre, and the terms of renewal of the agreements, the amount of annual revenue that is collected as rent by the College and any other relevant issues.
- ii) The Teacher-in-Charge requested the members to consider introduction of such courses in the College that would ensure all round skill development of students and brighten their career prospect. The members resolved that value added certificate courses be introduced in the College in near future keeping in mind grooming of outgoing students towards building their career.
- iii) Hon'ble President suggested that as part of celebration of Silver Jubilee of the College, a water ATM might be installed in the college premises as an outreach activity. Resolved unanimously that the Hon'ble President be appreciated for her innovative proposal and the Finance Sub-committee be requested to submit a detailed project report (DPR) for implementation of the proposal.
- iv) The Teacher-in-Charge raised the issue of installation of CCTV surveillance system in the college premises which had been approved by the erstwhile Governing Body long back but had not yet been implemented. The members stressed upon the necessity of such a system from the point of view of security as well as a mechanism of evidence of activities and events in the College premises, if needed. Resolved unanimously that installation of CCTV surveillance system in the College premises be expedited and the Teacher-in-Charge be requested to take necessary steps as soon as possible.

Attested  
*[Signature]*  
Principal  
Sammilani Mahavidyalaya  
E. M. Bypass, Baghajatin  
Kolkata - 700 094

Kolkata



# YEARLY STATUS REPORT - 2021-2022

## Part A

### Data of the Institution

#### 1. Name of the Institution

**SAMMILANI MAHAVIDYALAYA**

- Name of the Head of the institution **Dr. Sharmila Chakraborty**
- Designation **Teacher-in-Charge**
- Does the institution function from its own campus? **Yes**
  
- Phone no./Alternate phone no. **03324626869**
- Mobile No: **9433281924**
- Registered e-mail **principal.sammilani@gmail.com**
- Alternate e-mail **principal.sammilani@gmail.com**
- Address **E.M. Bypass, Baghajatin**
- City/Town **Kolkata**
- State/UT **West Bengal**
- Pin Code **700094**

#### 2. Institutional status

- Affiliated / Constitution Colleges **Affiliated College**
- Type of Institution **Co-education**
  
- Location **Semi-Urban**
  
- Financial Status **Grants-in aid**

  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata - 700 094

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

Our college always strives to improve its information and communication technology. As a result, all the computers of the college are upgraded time to time with proper maintenance and purchase of software. Local area network connecting all the computers, and Local-based server has been converted to cloud-based server. Enterprise Resource Planning (ERP) software has been purchased which has a cloud-based server, and facilitates to retrieve automatically information such as particulars of the students, templates of their Identity Card with bar code, sending SMS, sending email, online fees payment and also fees collection reports. Licensed Google Workspace (Business plus plan) with 10TB cloud storage has been purchased on 15.02.2022. It has smart inbox by Gmail along with Docs sheet, Google chats and Google Meet with recording option. All these have made conducting of seminars with maximum 500 participants at a time. New membership of DELNET (Developing Library Network) has been taken on 29.0.2022. It provides various types of e- journals and e-books on different subjects through static IP. The college has obtained ISO 9001:2015 Certification (Quality Management System). The college has done Green Audit, Energy Audit and Environment Audit for the first time in 2021-22.

File Description	Documents
Appropriate web in the Institutional website	<a href="#">View File</a>
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

1. To enhance the employability skills of the students.
2. To organise a Mega Job Fair the students.
3. To reintroduce Academic and Administrative Audit.
4. More collaborations/linkages between Academia and Industry.
5. Change of domain name of the college website from .org to .ac.in.
6. To organise Book Fair for the students.
7. To utilise the second instalment of RUSA 2.0 Grant for infrastructure augmentation, sanctioned under the Infrastructure Development Grants of RUSA 2.0 (Component 9). [As the proposal could not be implemented last year due to delay on the part of PWD, Govt. of West Bengal.]
8. Installation of CCTV in the library.

  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata - 700 094