

*6.5.3 - Quality assurance initiatives of the institution include:*

- 1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements*
- 2. Collaborative quality initiatives with other institution(s)*
- 3. Participation in NIRF*
- 4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)*

# Part - 1

# ***IQAC Resolutions***



# RAMANANDA COLLEGE

**BISHNUPUR \* BANKURA**

**Pin – 722122, West Bengal**

**UGC Recognized & State Government Aided Constituent College**

**Under the Bankura University**

**(Accredited by NAAC at 'B++' Level)**

Tel.: (03244) 252059

Tele Fax.: (03244) 254427

Mobile No.: +916297976619

e-mail.: principal@ramanandacollege.org

Website: www.ramanandacollege.org

## **IQAC Resolution:**

[http://www.ramanandacollege.org/iqac\\_regulations.php](http://www.ramanandacollege.org/iqac_regulations.php)

## **IQAC AQAR:**

<https://www.ramanandacollege.org/aqar.php>

*Feedback Link*

# **Link of Feedback**

**<http://www.ramanandacollege.org/feedback.php>**

# *Academic Audit Report*

**ACADEMIC AUDIT REPORT**  
**For the Academic year 2021 – 2022**

Academic Audit of Department			
			Period of Audit: 2021 – 2022
<b>I – COLLEGE PROFILE (To be filled in by the IQAC Co-ordinator)</b>			
1	Name of the Department, Website, email and Ph. No.	Ramananda College, <a href="http://www.ramanandacollege.org/">http://www.ramanandacollege.org/</a> <a href="mailto:principal@ramanandacollege.org">principal@ramanandacollege.org</a> Mobile No. - +916297976619	
2	Name of the HOD, email & Mob. No.	Dr. Swapna Ghorai, <a href="mailto:principal@ramanandacollege.org">principal@ramanandacollege.org</a> <a href="mailto:principalramananda@gmail.com">principalramananda@gmail.com</a> +91 9434509415	
3	Name of the IQAC Coordinator, email & Mob. No.	Dr. Rajesh Mukherjee <a href="mailto:igacramananda@gmail.com">igacramananda@gmail.com</a> +91 9679673612	
4	Year of Establishment/ Year of Affiliation	Estd: 1945. Affiliation from CU: 1945, BU: 1960, BKU: 2017 till date	
5	NAAC Grade with Cycle, Accredited Year (if not Accredited Status of Preparations)	"B++" – Cycle 3 with 2.83 CGPA	
6	UGC Recognition (2F & 12 B)	Yes	
7	Department Working Hours (if shift system mention details of both shifts & give reasons for shift system)	10:00 am to 5:00 pm (Monday to Saturday)	
8	No. of Posts Sanctioned:		
	Teaching -		Teaching 65 (Full-Time) + 46 (SACT)
	Non-Teaching- Supportive Staff -	Govt. approved: Management approved: Govt. approved Contractual: Management approved Contractual: Guest Working:	Non-Teaching 15  46   33
9	Course wise & Year wise students strength particulars (Proforma enclosed & to be submitted along with AAR)	Annexure - 1	

*Dr. Saurabh Dutta*  
Inspector of Colleges  
Bankura University  
26/05/2023

	Item	Impression of Academic Advisor with grade after observation **		Statement
		Grade	Actual Status	
II - CURRICULAR ASPECTS				
1	Implementation of Annual Department Plan	A	Good	ICT classes, Submission of dept. profile, mentoring, submission of equipment and book list  <i>Annexure - 2</i>
2	Departmental Annual Curricular Plans	A	Good	Syllabus distribution,  <i>Annexure - 3</i>
3	Department Activity Register for the Academic Year 2021 to 2022	A	Good	Yes (Resolution book, Mentoring register etc.)  <i>Annexure - 2</i>
4	Departmental Activity Registers	A	Good	Yes (Internal assessment, seminar, workshop, resolution book etc.)  <i>Annexure - 4</i>
5	Add-on Courses completed during Academic Year 2021 to 2022	A	Good	1. Cutting Knitting 2. Modern Handicraft 3. Food Processing 4. Computer training course  <i>Annexure - 5</i>
6	Plan for introduction of new Add-on Courses in Academic Year 2021 to 2022	A	Good	Resolution book
7	Coverage of Syllabus (Average Percentage)	B	Satisfactory	80% to 90% from student feedback analysis  Web Link - <a href="http://www.ramanandacollege.org/feedback.php">http://www.ramanandacollege.org/feedback.php</a>
8	Teaching of Environmental Science and Ethics	A	Good	Yes (Environmental Studies as per syllabus, seminars)

\*\* Grade A (Good) / B (Satisfactory) / C (Poor)

*Dr. Saurabh Dutta*  
Inspector of Colleges  
Bankura University

	Item	Impression of Academic Advisor with grade after observation **		Statement
		Grade	Actual Status	
9	Maintenance of Student Attendance Registers	A	Good	Yes
10	Feedback forms on Curriculum from students	A	Good	Yes  Web Link - <a href="http://www.ramanandacollege.org/feedback.php">http://www.ramanandacollege.org/feedback.php</a>
<b>III – TEACHING LEARNING</b>				
1	Teaching Diaries & Plans in the Prescribed Formats	B	Satisfactory	Yes (Daily Diary, Staff Diary)  <i>Annexure - 6</i>
2	Co-Curricular Activities (Department Level)	B	Satisfactory	Yes (Freshers' welcome, cultural competitions)  <i>Annexure - 7</i>
3	Academic Competitions (Degree & Above Level)	B	Satisfactory	Yes (Students Seminars / Presentation / Exhibition)  <i>Annexure - 8</i>
4	Conduct of Internal Examinations-continuous assessment & Mid-Term Test	A	Good	Done (Home assignment, internal assessment, unit test)  <i>Annexure - 9</i>
5	Subject wise result analysis	A	Good	Yes (AQAR, Annual report of the college, academic council meeting resolution)  Annual Report - <a href="http://www.ramanandacollege.org/annual_report.php">http://www.ramanandacollege.org/annual_report.php</a> AQAR- <a href="http://www.ramanandacollege.org/aqar.php">http://www.ramanandacollege.org/aqar.php</a>
6	Teacher wise result analysis	C	Poor	Results are analyzed but it is not done teacher-wise
7	Remedial Classes	B	Satisfactory	Yes (Departmental-wise register of remedial classes)  <i>Annexure - 10</i>
8	Record of Evaluation of Teachers by Students	B	Satisfactory	The IQAC conducts students' feedback yearly and the same is regularly uploaded on the college website.

				Web Link - <a href="http://www.ramanandacollege.org/feedback.php">http://www.ramanandacollege.org/feedback.php</a>
9	Last 2 years University Result analysis with current result of Academic Audit Year (2021 to 2022)	B	Satisfactory	Record is available in the college (AQAR, Annual report of the college, academic council meeting resolution)  Annual Report - <a href="http://www.ramanandacollege.org/annual_report.php">http://www.ramanandacollege.org/annual_report.php</a> AQAR- <a href="http://www.ramanandacollege.org/aqar.php">http://www.ramanandacollege.org/aqar.php</a> Result - <a href="http://www.ramanandacollege.org/exam_results.php">http://www.ramanandacollege.org/exam_results.php</a>

\*\* Grade A (Good) / B (Satisfactory) / C (Poor)

	Item	Impression of Academic Advisor with grade after observation **		Statement
		Grade	Actual Status	
IV - RESEARCH AND CONSULTANCY				
1	Is the Department a Recognized Research Centre	B	Satisfactory	Central Instrumental Facility, Teacher as Ph.D supervisors, Research committee, Research Projects etc
2	No. of Research Guides in the Department	A	Good	11  Annexure - 11
3	No. of Faculty registered for Ph. D. (attach details)	A	Good	1. Siddhartha Dutta 2. Arna Mukhopadhyay 3. Saroj Ballav 4. Soumen Mahanta 5. Sanju Dutta 6. Rajesh Guin 7. Susanta Nole 8. Prakash Kumar Santra 9. Sonam Jalan 10. Debobrato Sarkar 11. Ajit Debnath 12. Parnab Chatterjee  Annexure - 12

  
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Inspector of Colleges  
Bankura University

4	Number of Major/Minor/Other Research Projects (attach details)	B	Satisfactory	Major: 01 Minor: 02 Others:  <i>Annexure - 13</i>
5	Number of Research Papers Published in Academic year (Internationals/Nationals Journals) (attach details)	A	Good	National: 0 International: 32  <i>Annexure - 14</i>
6	Number of Papers Presented in Academic year 2021 to 2022 (International/National/State Level Conference) (attach details)	A	Good	International: 09 National: 07 State Level Conference: 00  <i>Annexure - 14</i>
7	Number of Books Published in Academic year 2021 to 2022 (Single Author/Co Author) (attach details)	A	Good	As a Single Author – 02 As a Co-Author – 07  <i>Annexure - 15</i>
8	Number of Seminars / Workshops / Training Program Conducted in Academic year (International / National / State) (attach details)	A	Good	14 (Workshops/Seminars/Webinars)  <i>Annexure - 16</i>
9	Record of Consultancy in Academic year 2021 to 2022 (attach details)	B	Satisfactory	Yes (As NAAC consultants, GB Member of other colleges etc)
10	Record of MOUs in Academic year 2021 to 2022 (attach details)	B	Satisfactory	1. Bankura Sammilani College & Ramananda College  <i>Annexure - 17</i>

\*\* Grade A (Good) / B (Satisfactory) / C (Poor)

	Item	Impression of Academic Advisor with after observation **		Statement
		Grade	Actual Status	
V - EXTENSION ACTIVITIES				
1	Record of Subject/Department Related Extension Activities (attach details)	B	Satisfactory	1. Exhibition (Unyannyner Pathe), Bishnupur Municipality
2	Name of the NSS PO & Mobile No.			1. PROF. AJIT TUDU (JC) – 9932356188 2. DR. SAIBAL MITRA (JC) - 9434674944

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Bankura University  
26/03/2023

3	NSS Attendance register	A	Good	Yes
4	NSS Activity register	A	Good	Yes
5	Name of the NCC ANO & Mobile No.			1. DR. DEEPAK KUMAR SINGH - 8013123467
6	NCC Attendance register	A	Good	Yes
7	NCC Activity register	A	Good	Yes
8	Name of the Eco- & Innovation Club Coordinator & Mobile No.			1. DR. SHYAMAL KANTI MALLICK (JC) – 9474446045 2. PROF. ANINDITA BAR (JC) – 9474408485
9	Eco- & Innovation Club Activities	A	Good	Yes (Plantation, Green Audit)
10	Technology Development and Transfer Cell Activities	B	Satisfactory	
11	Any Other Club	B	Satisfactory	Electoral Club 1. PROF. ARPAN BHATTACHARYA (JC) – 9635728931 2. DR. AMIT DEY (JC) - 8972203877

\*\* Grade A (Good) / B (Satisfactory) / C (Poor)

	Item	Impression of Academic Advisor with grade after observation **		Statement		
		Grade	Actual Status			
VI - LEARNING RESOURCES						
1	Name of the Librarian & Mobile No.			1. MR. PARNAB CHATTERJEE – 9126583602 2. MS. SRABANI KARAK – 9563580389		
2	Access timings of the library	A	Good	Library Timings	Day	Time
				Lending Section	Monday - Friday	11AM – 3.30 PM
				Circulation	Saturday	11 AM – 01.30 PM
				Reading Hours	Monday - Friday	11 AM- 4.30 PM
					Saturday	10.30AM – 01.30PM
				Library Office	Monday - Friday	10.30 AM – 4.30 PM
					Saturday	10.30 AM – 01.30 PM
				Library clearance	Monday - Friday	11AM – 3.00 PM

*Dr. Saurabh Butta*  
Inspector of Colleges  
Bankura University

				Saturday	11 AM – 1.30 PM
3	Circulation of Books among Students	A	Good	Yes	
4	Circulation of Books among Faculties	A	Good	Yes	
5	Availability of Previous years Question papers	A	Good	Yes	
6	Availability of model answers of previous examinations	C	Poor	No	
7	Record of Visitors to Library	A	Good	Yes	
8	Status of Library Automation	A	Good	Fully	
9	e-Resources	A	Good	Present on the College Website	
10	Number of E-Journals	C	Poor	Nil	
11	Number of Print Journals	B	Satisfactory	02 (Current Science, IASLIC Bulletin)	
			Satisfactory	Acknowledge as a local chapter	
12	Access to NPTEL courses	B		Annexure - 18	
13			Satisfactory	Spoken English Course is running only for the 1 <sup>st</sup> semester Honours students	
	Access to Spoken Tutorials	B		Annexure - 19	
14				USING SWAYAM PRAVA -	
	Access to e-learning tutorials	B	Satisfactory	<a href="https://www.swayamprabha.gov.in/index.php/program/archive/1">https://www.swayamprabha.gov.in/index.php/program/archive/1</a>	

\*\* Grade A (Good) / B (Satisfactory) / C (Poor)

	Item	Impression of Academic Advisor with grade after observation **		Statement
		Grade	Actual Status	
VII - STUDENT SUPPORT ACTIVITIES				
1	Name of Dean/Faculty In-charge & Mobile No.			DR. DEEPAK KUMAR SINGH - 8013123467
2	Activities and Support for Sports (attach details)	A	Good	Support for Sports (Gymnasium equipment) - Annexure - 20
3	Records of events conducted and significant achievements in Sports & Games (attach details)	A	Good	University Football Match Annexure - 21
4	Record of cultural programs conducted	A	Good	03 Nos - Dance Competition, Drama Competition, Debate Competition,

*Dr. Saurabh Dutt*  
Inspector of Colleges  
Bankura University  
15/12/23

5	Record of any other extra-curricular activities conducted	A	Good	04 Nos Essay Competition, Quiz Competition, Singing Competition & Recitation Competition
6	Record of Students trained in different verticals Specialized Trainings	A	Good	Computer Skills, Communicative English
7	Record of Students placed in campus placement	C	Poor	Nil
8	Name of Career Guidance Coordinator and Mobile No.			Prof. Arpan Bhattacharjee
9	Record of activities Career Guidance and placement cell	B	Satisfactory	Annexure – 22

\*\* Grade A (Good) / B (Satisfactory) / C (Poor)

	Item	Impression of Academic Advisor with grade after observation **		Statement
		Grade	Actual Status	
10	IQAC activities & maintenance of records, (Action Plan/Minutes of Meeting/submission of AQAR to NAAC etc.)	B	Satisfactory	IQAC Action Plan - <a href="http://www.ramanandacollege.org/atr.php">http://www.ramanandacollege.org/atr.php</a> (College website link) IQAC Minutes of Meetings - <a href="http://www.ramanandacollege.org/igac_regulations.php">http://www.ramanandacollege.org/igac_regulations.php</a> (College website link)
11	Record of Alumni Association Activities	B	Satisfactory	Website link - <a href="http://www.ramanandacollege.org/alumni_students.php">http://www.ramanandacollege.org/alumni_students.php</a>
12	Record of Grievance Redressal Cell/Anti Ragging Cell	A	Good	Website link - <a href="http://www.ramanandacollege.org/grievance.php">http://www.ramanandacollege.org/grievance.php</a>
13	Awards and Prizes earned by students (attach details)	A	Good	Website link - <a href="http://www.ramanandacollege.org/sports.php">http://www.ramanandacollege.org/sports.php</a> (Up to 2019 - 2020)
14	Mentoring/Counseling System	A	Good	The departments of the college preserve the records of mentoring  Annexure - 2

\*\* Grade A (Good) / B (Satisfactory) / C (Poor)

*Dr. Saubh Datta*  
Inspector of Colleges  
Bankura University  
21/05/2023

	Item	Impression of Academic Advisor with grade after observation **		Statement
		Grade	Actual Status	
<b>VIII - BASIC AMENITIES</b>				
1	Maintenance of drinking water	A	Good	Yes
2	Maintenance of Sanitation	A	Good	Through Municipality and external agencies
3	Greenery & Cleanliness	B	Satisfactory	Garden, Medicinal Plants, Regular cleaning programme
4	Health Care Facility	A	Good	Sick room in the college campus and West Bengal Health Scheme for staff, Campus health camp for students
5	Canteen	A	Good	Cheap Canteen
1	Staff Meetings Register	A	Good	Yes  <i>Annexure - 23</i>
2	Functioning of Committees in Administration (Minutes of Meetings)	A	Good	Yes
3	Awards/Achievements of faculty (attach details)	C	Poor	

\*\* Grade A (Good) / B (Satisfactory) / C (Poor)

#### Recommendation/Suggestions by Academic Advisor:

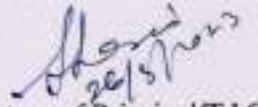
Suggestions for improvement/progress of the department	Sheet attached		
		Signatures of Academic Advisor with designation	Seal <i>Dr. Saurabh Dutta</i> Inspector of Colleges Banskura University
Agrees with all above observations and also with the suggestions by the Academic Advisors. I will try to comply with the suggestions by the Academic Advisors for the improvement of Academic Quality along with infrastructure of my department.	1	<i>Dr. Saurabh Dutta</i> 26/11/2023	
	2		
	3		

Signature of the HOD with date

**Declaration by Principal/ T.I.C**

On behalf of the College Governing Body and as Institutional Head, I will recommend of the records of observations by the Academic Advisors to IQAC and also to Governing Body of Institution for further necessary action regarding Academic and Administrative development of the department.

Date:



Signature of Principal/T.I.C

# *Administrative Audit Report*



**Dr. Saurabh Dutta**

Inspector of Colleges

**BANKURA UNIVERSITY**

Main Campus, Bankura Block - II

P.O. : Purandarpur, Dist. : Bankura

Pin : 722 155 (W.B.), India

E-mail : [ic@bankurauniv.ac.in](mailto:ic@bankurauniv.ac.in)

Phone : 9433411450/9647650561

Website : [www.bankurauniv.ac.in](http://www.bankurauniv.ac.in)

Ref. IC/BKU/Misc./2023/08

26/05/2023

To  
The Principal  
RAMANANDA COLLEGE

Subject: Report of Administrative Audit (2021 – 2022) of Ramananda College

Sir/Madam,

With reference to your letter, Ref. No. 150/BNKU/2023 dated 04/05/2023, and subsequently as directed by the Hon'ble Vice Chancellor, Bankura University to have a visit to your College on 22/05/2023 to conduct Academic and Administrative Audit, the undersigned did an Audit Work mainly (but not limited to) based on his visit to your College on 22/05/2023.

The Administrative Audit Work was consisting of the following set of functions:


1. To go through a draft copy of Administrative Audit Report Proposal consisting of the following 6 (six) sections prepared by you using the standard pro forma of Bankura University:

- Authorities Section
- Finance Section
- Development Section
- Establishment Section
- Examination Section
- Academic Section

2. To have a series of interactions during the visit with you and other stakeholders to have a crosschecking of data, only upto a possible extent, provided in the draft copy of the Administrative Audit Report Proposal

On the whole, the undersigned was satisfied and the Administrative Audit Work hereby ends wishing Good Luck to the authorities of the Ramananda College.

With regards,

  
Dr. Saurabh Dutta  
Inspector of Colleges  
Bankura University

26/05/2023  
Dr. Saurabh Dutta  
Inspector of Colleges  
Bankura University



Copy to:  
Secretary to the Hon'ble Vice Chancellor, Bankura University

# *Green & Environmental Audit*

# GREEN & ENVIRONMENTAL AUDIT REPORT

2021-2022



## RAMANANDA COLLEGE

BISHNUPUR      BANKURA      WEST BENGAL

722122

# GREEN & ENVIRONMENTAL AUDIT REPORT

Academic Session 2021-22



**About College:** *Ramananda College is a pioneering higher-educational institution located at Bishnupur, within the district of Bankura. It is the sole co-educational Degree College with PG courses recognized by the UGC within Bishnupur town. Since its inception in 1945, this institution has been serving the cause of higher education in the local community and also of students from far-away, remote villages. Even today students from other districts are studying here.*

*Sri Ramnalini Chakraborty, freedom-fighter and social worker of Bishnupur, Sri Radhagobinda Roy, founder-principal of this college and ex-minister, Govt. of West Bengal and other eminent community members of Bishnupur decided to establish this college here. Sri Ramnalini Chakraborty, the Koley family, Sri Anil Kumar Bhattacharya, members of the Friends' Union Club and the community maximally funded the costs for building this college. The college is named after the son of the soil, Sri Ramananda Chattopadhyay (1865-1943), journalist, editor and scholar who was active during the Bengal Renaissance.*

*Initially the college was affiliated to the University of Calcutta, and later to the University of Burdwan and now under the affiliation of the Bankura University since 1<sup>st</sup> January, 2017. The college is recognized by the UGC under Sections 2F and 12B. As the college was established before Independence, it predates both the creations of the UGC and*

*the University of Burdwan. In 2015, the National Assessment and Accreditation Council (NAAC) re-accredited (2<sup>nd</sup> cycle) the College with 2.75 score. Further, with the introduction of different Post Graduate Courses in Science and Humanities, the college has become a constituent college of the Bankura University. Now the college is compliant with the visions of RUSA.*

### **Campus Area:**



**Campus Area of Ramananda College**

## **To maintain eco-friendly ambience 12 point programmed is followed within college campus:**

- Green building for quality living. - No
- Know green and think green is promoted on the campus. - Yes
- Water conservation and prevention of water wastage. - Yes
- Use CFL/LED bulbs instead florescent bulbs. - Yes
- New solar panel is set up on the roof top of administrative building. - Yes
- 20 KVA & 10 KVA generators are used to save diesel. – Yes (20 KVA)
- Usage of recycled paper bags was promoted among students . - Yes
- Reduce – reuse – recycle methods are followed - No
- Biodegradable wastes are used in vermicomposting unit. - yes
- Carbon dioxide neutrality is maintained on the campus by developing greenery. - Yes
- Turning off monitors after the work. - Yes
- Global warming, bio-diversity and pollution incorporated in the curriculum. - Yes

## **The initiatives taken by the college to make the campus ecofriendly**

### **1. Energy conservation:**

As per the Energy Conservation Act, 2001, Energy Audit is defined as "the verification, monitoring and analysis of use of energy including submission of technical report containing recommendations for improving energy efficiency with cost benefit analysis and an action plan to reduce energy consumption". Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment. An old incandescent bulb uses approximately 60W to 100W while an energy efficient light emitting diode (LED) uses only less than 10 W. Energy auditing deals with the conservation and methods to reduce its consumption related to environmental degradation. It is therefore essential that any environmentally responsible institution examine its energy use.



#### a. Types of Energy Uses

Types of energy	Uses (%)
Electricity	84.60
LPG Gas	6.5
Solar	4.80
Diesel	2.6
Others	1.5



Solar Panel

## b. Sources of Energy uses in College Campus

The College uses conventional energy sources mostly. The renewable solar energy source is found to be installed to reduce load on the non-conventional sources. The maximum energy consumption is from the electricity consumption, and the tubes, fans, computer and the CCTV are the main sources of consumption. Lack of LEDs results in higher energy consumption. The maximum energy usage occurs in classrooms and offices.



CCTV



Solar Energy

### c. Energy Consumption in Different Sectors in Percentage

Energy Consumption in Different Sectors	Consumption in Percentage
Science Block	20
Humanistic Block	12
Administrative Building	22
Computer Lab	14.3
Library	7
Gym and Seminar Hall	3
Hostel and Quarters	13.7
Gest House and Canteen	3
Pump and Water Lifting	2.5
Others	2.5

### d. Energy Consumption in Different Purposes

Energy Consumption in Different Purposes	Consumption in Percentage
Light and Fans	48
AC	7
Computer and Lab	30.5
Pump	4.5
Others	10



Energy Consumption for the purpose of AC Connection



Energy Consumption for the purpose of Computer Lab

## 2. Use of renewable energy:

The College mainly uses conventional energy sources. Apart from that the renewable solar energy source is found to be installed to reduce load on the non-conventional sources.

## 3. Rain water harvesting:

At present the rain water harvesting is too much essential for the preservation of ground water which is still extracting continuously. Ramananda College practices rain water harvesting in two ways basically-Roof top harvesting and Surface run-off harvesting which contributes a lot for the preservation of ground water storage, sustainable development by water conservation and well-balanced in physical environment. At college, the Roof top harvesting particularly practices near eastern side of college playground where roof top harvest connection is drained in an artificial well. It is utilised for various purposes such as sprinkle irrigation in flower gardens and dropped point irrigation in flower trees and others located within campus and also maintain a hygienic environment at college campus.



Rain Water Harvesting

#### 4. Plantation:

The College campus has a vegetational coverage comprising herbs, shrubs and trees. This vegetational coverage regulates the health of the ecosystem of the College. Plantation programmes have been taken up by the NSS unit and the Eco club of the College for increasing the green coverage in the campus. Awareness among the students and this staff on energy conservation is created by different seminars organized by different departments of the College concentrating on Environmental issues. Switching off all the electrical activities when our college campus is not in use and also solar light is placed in our college campus to save the environmental health.



## a. Different types of plants found in college campus:

### 1. Introduction of Plants in college campus

There is a great plant diversity in the College campus. About 41 important plant species are present here. The important resource of our college campus is a medicinal garden which comprises so many medicinally important plants some of which are endangered also. Most tree species are economically important.

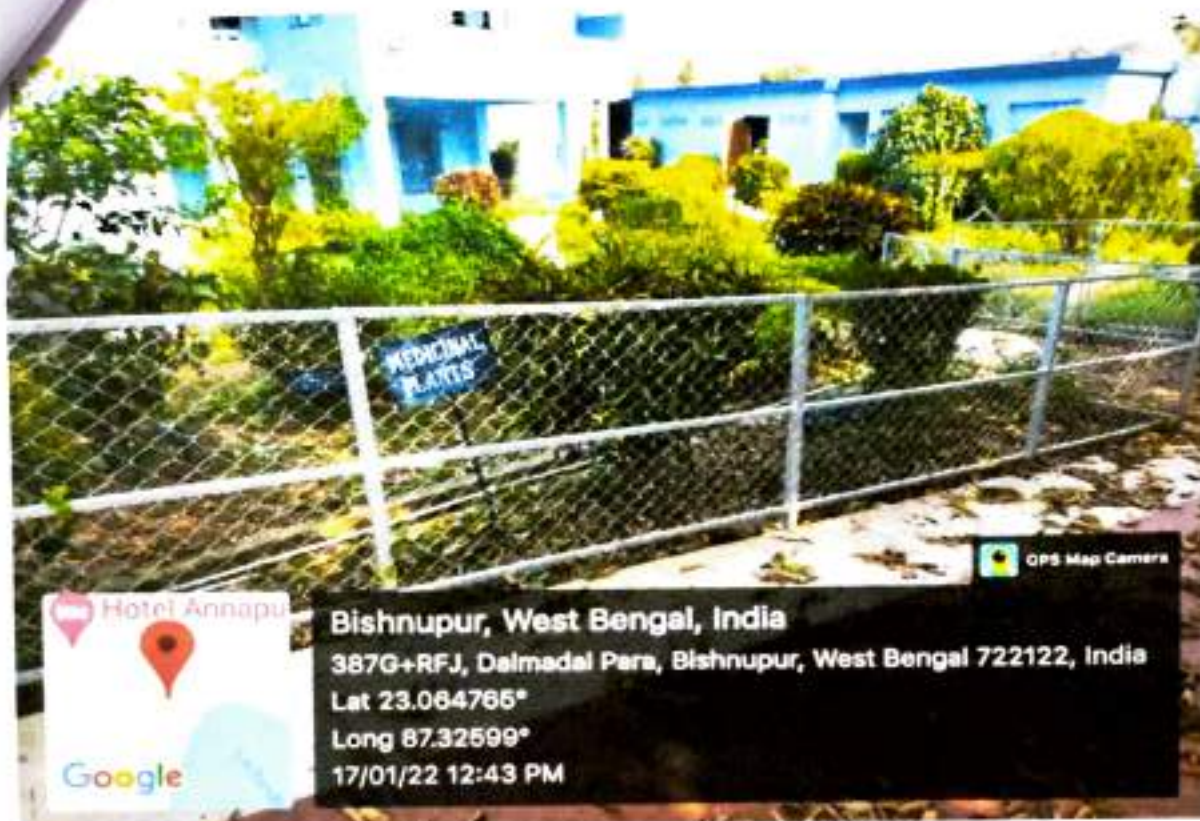
### 2. Herbs, Shrubs, Tree

The list of the names of Herbs, Shrubs, Trees is mentioned bellow

1. Scientific Name: *Rhinacanthus nasutas* (L.) Kurtz  
Family: Acanthaceae  
Common Name: Julpana, Palak jui
2. Scientific Name: *Dixa orellana* Linn.  
Family: Bixaceae  
Common Name: Sindure, Latkan
3. Scientific Name: *Ecbolium viride* (Forks. ) Merrill.  
Family: Acanthaceae  
Common Name: Neel Kantha, Udujati.
4. Scientific Name: *Aloe barbadensis* Mill.  
Family: Liliaceae  
Common Name: Ghritakumari
5. Scientific Name: *Barleria prionitis* Linn.  
Family: Acanthaceae  
Common Name: Peetjhanti
6. Scientific Name: *Barleria lupulina* Lindl.  
Family: Acanthaceae  
Common Name: Kanta bishalyakarani
7. Scientific Name: *Bauhinia purpurea* Linn.  
Family: Caesalpiniaceae  
Common Name: Raktakanchan
8. Scientific Name: *Celosia argentea* Lf.  
Family: amaranthaceae  
Common Name: Morag phool
9. Scientific Name: *Centella asiatica* (Linn.) Urban.  
Family: Umbelliferae[Apiaceae]  
Common Name: Thankuni
10. Scientific Name: *Costus speciosus* Koen.ex Retz. Smith  
Family: Costaceae  
Common Name: Kemuk
11. Scientific Name: *Dotura metel* Linn.  
Family: Solanaceae

- Common Name: Dhutra
12. Scientific Name: *Gymnema sylvestre* (Retz.) R.Br. ex Schult.  
Family: Asclepiadaceae  
Common Name: Gurmar
13. Scientific Name: *Jatropha gossypifolia* Linn.  
Family: Euphorbiaceae  
Common Name: Lal veranda
14. Scientific Name: *Lawsonia inermis* Linn.  
Family: Lythraceae  
Common Name: Mehedi, Mehendi, Hena
15. Scientific Name: *Boerhaavia diffusa* Linn.  
Family: Nyctaginaceae  
Common Name: Punarnava
16. Scientific Name: *Blumea lacera* (Burm.f.) JDC.  
Family: Compositae Asteraceae)  
Common Name: Kukurshoka
17. Scientific Name: *Bryophyllum pinnatum* (Lam.) Kurtz  
Family: Crassulaceae.  
Common Name: Patharkuchi
18. Scientific Name: *Colotropis gigantea* (Linn.) R.Br.ex Ait.  
Family: Asclepiadaceae  
Common Name: Akanda
19. Scientific Name: *Cassia occidentalis* Linn.  
Family: Caesalpiniaceae  
Common Name: Kalkasunda
20. Scientific Name: *Catharanthus roseus* (Linn.) G.Don.  
Family: Apocynaceae  
Common Name: Nayantara
21. Scientific Name: *Cayratia trifolia* (L.) Domin.  
Family: Vitaceae  
Common Name: Amal lata
22. Scientific Name: *Mimosa pudica* Linn.  
Family: Mimosaceae  
Common Name: Lajjabati
23. Scientific Name: *Hemidesmus indicus* R.Br.  
Family: Asclepiadaceae  
Common Name: anantamul
24. Scientific Name: *Ocimum tenuiflorum* Linn.  
Family: Labiatae (Lamiaceae)  
Common Name: Krishna tulsi
25. Scientific Name: *Ocimum sanctum* Linn.  
Family: Labiatae (Lamiaceae)  
Common Name: Radha tulsi
26. Scientific Name: *Ocimum viride* (L.) Willd.  
Family: Labiatae(Lamiaceae)  
Common Name: Ramtulsi
27. Scientific Name: *Rauvolfia tetraphylla* Linn.  
Family: apocynaceae  
Common Name: Gandhanauli Sarpagandha
28. Scientific Name: *Ricinus communis* Linn.

- Family: Euphorbiaceae  
Common Name: Rerhi, Eranda
29. Scientific Name: *Tectona grandis* Linn.f.  
Family: Verbenaceae  
Common Name: Segun
30. Scientific Name: *Plumeria acuminata* Ait.  
Family: Apocynaceae  
Common Name: Dalanphool, Katgulancha, Garurchampa
31. Scientific Name: *Schleichera oleosa* (Lour.) Oken.  
Family: Sapindaceae  
Common Name: Kusum
32. Scientific Name: *Bridella retusa* Spreng  
Family: Euphorbiaceae  
Common Name: Bhuas
33. Scientific Name: *Artocarpus heterophyllus* Lamk.  
Family: Moraceae  
Common Name: Kanthal
34. Scientific Name: *Polyalthia longifolia* Benth & Hook.f.  
Family: Annonaceae  
Common Name: Debdaru
35. Scientific Name: *Peltaphorum pterocarpum* Baker.  
Family: Caesalpiniaceae  
Common Name: Radhachura
36. Scientific Name: *Caesalpinia pulcherrima* (L.) Swartz.  
Family: Caesalpiniaceae  
Common Name: Krishnachura
37. Scientific Name: *Anthocephalus cadamba* (Roxb.) Mig.  
Family: Rubiaceae  
Common Name: kadam
38. Scientific Name: *Plumeria pudica* Jacq.  
Family: Apocynaceae  
Common Name: Naag champa
39. Scientific Name: *Draccoena marginata* Hort.  
Family: Asparagaceae  
Common Name: Dragon tree\
40. Scientific Name: *Casuarina equisetifolia*  
Family: Casuarinaceae  
Common Name: Jhau
41. Scientific Name: *Dalbergia sisso*  
Family: Fabaceae  
Common Name: Sisu
42. Scientific Name: *Azadirachta indica*  
Family: Meliaceae  
Common Name: Neem
43. Scientific Name: *Gmelina arborea*  
Family: Verbenaceae  
Common Name: Gamar



Medicinal Plants

### 3. Use and Medicinal value of various Herbs

Sl	Herbs	Use and Medicinal Values
1	<i>Acalypha indica</i> Linn.	Whole plant used as diuretic and use to treat gastro intestinal irritant
2	<i>Bryophyllum pinnatum</i> (Lam.) Kurz	Used to treat diabetes, cold and cough
3	<i>Cyperus Kyllinga</i> , Endl.	Used as an antidote to snake bite
4	<i>Echolium viride</i> Merrill	Used to treat dysuria and gout
5	<i>Eclipta prostrata</i> Linn.	Used to jaundice, fever, to promote hair growth



Medicinal Plants in the College  
Campus

#### 4. Use and medicinal value of various Shrubs and Undershrubs

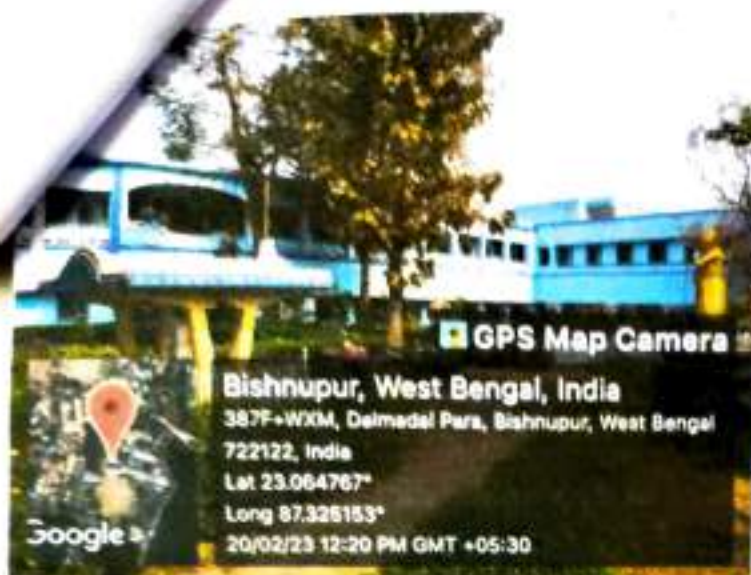
Sl	Shrubs	Use and Medicinal Values
1	<i>Barleria prionites</i> Linn.	Used to cure dropsy
2	<i>Abutilon indicum</i> Sw.	Roots used in fever, leprosy and heart deaseses
3	<i>Asparagus racemosus</i> Willd.	Used in blood dysentery, bloody urine and epilepsy
4	<i>Aloe barbadensis</i> Mill.	Used in constipation, piles and eczima
5	<i>Lawsonia inermis</i> Linn.	Used to treat headache, sore throat, barning of the feet



Medicinal Plants

## 5. Economic value of various Trees.

SL	Trees	Economic values
1	<i>Tectona grandis</i>	Stem used as Furniture's and leaves are used as plate.
2	<i>Bridelia retusa</i>	Used as medicine, food and source of a good quality wood
3	<i>Polvalthia longiafulia</i>	Ornamental plants
4	<i>Plumeria acuminata</i>	Ornamental flower producing plants



Various Trees in the College Campus

## 5. Waste Management:

**Plastic Waste:** First of all, awareness on plastics material (and its life cycle), its uses and disposal will be there regularly among students. In the second stage, practice of keeping plastics wrapping, packaging, and other plastic-made things in the appropriate bin should be there. For this purpose, sufficient numbers of bins will be placed in appropriate locations like students' common room, canteen etc. A mechanism will be there for regular collection by dedicated manpower. At the end, the plastics will recycle by grinding/ chopping instrument and final material is to be dispatched to market. The institution has accepted the suggestion of use of such innovative recycling machine and suggested to design the machine.



Waste Management System in the College Campus

**Paper Waste Management:** Being academic institution, waste paper is the main solid waste generated in the premises. The institution has taken steps to minimize and avoid paper usage. Faculty and administration staff uses old papers and envelopes for internal usages as rough work, file markers, page separators etc. Paper notices are displayed on the notice boards. The dissertation reports journals, and answer papers are stored as per the College rules after that the waste paper is supplied to nearest paper mill

**E-Waste Management:** Most of the storage of E- Wastes is in computer laboratory. The data on E- waste generation and its disposal is not available. There is no documented policy for collection, segregation of e-waste.

**Liquid Waste** Liquid waste generated from canteen, hostels and toilets. Appropriate means is suggested to adopt scientific liquid waste management practices. These are neutralization, bacterial control, and natural control through plantation. c) Organic Waste: The kitchen wastes from the hostel kitchen and canteen are not properly managed.



**Liquid Waste Management System in the College Campus**

**Hazardous Waste:** There are no sources of Hazardous Waste

**Waste Prevention:** Since waste demands a cost for recycling, it is better to design such product which takes less recycling cost. So, at the design phase the proper need assessment is to be undertaken to reduce the target cost for disposal.

### **Waste Audit and Assessment:**

Waste Audit and Assessment	Observation and Findings
Degradable Waste	110 Kg
Non degradable Waste	8Kg
Source of Waste (Organic)	Canteen, Hostel and Garden
Source of waste (Chemical)	Chemistry, Botany, Geography, Zoology Labs
Waste management Policy	Use of Separate Dustbin

## GREEN AUDIT RESULT

SL. No	Environmental Aspect	Compliance		Comment
		Yes	No	
1	Energy Conservation	✓		
2	Water quality management	✓		
3	Plantation	✓		
4	Waste Management	✓		
5	Air Quality Management	✓		
6	Disaster Management	✓		
7	Risk Management	✓		
8	Environmental Aesthetics	✓		
9	Noise	✓		
10	Drinking water provision	✓		
11	Sanitary Waste Management	✓		

Audited by:

  
 (DR. SAMIR KUMAR MUKHERJEE) 11/05/2023

PRINCIPAL  
 Bankura Sammilani College  
 Kenduadihi, Bankura

*MoU with Mallabhum Yoga Centre*

भारतीय गैर न्यायिक

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TEN  
RUPEES

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INDIA NON JUDICIAL

अभिध्वज्य पश्चिम बंगाल WEST BENGAL

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## MEMORANDUM OF UNDERSTANDING

MEMORANDUM OF UNDERSTANDING BETWEEN  
RAMANANDA COLLEGE, BISHNUPUR, BANKURA, INDIA  
AND MALLABHUM YOGA CENTRE, BISHNUPUR,  
BANKURA, INDIA

Ramananda College, Bishnupur, Bankura, India, hereinafter referred to as "RNC"  
and Mallabhum Yoga Centre, Bishnupur, Bankura, India, hereinafter referred to as  
"MYC", hereinafter individually referred to as "the Party" and jointly referred to  
as "The Parties";

*[Handwritten signature]*

**ACKNOWLEDGING** that;

1. RNC is a Government Aided General Degree College (UG + PG), having its address at Bishnupur, Bankura, Pin-722 122, West Bengal, India;
2. MYC is a non-profit organisation for development of child and youth registered by Government of India, having its address at Boltala, Bishnupur, Bankura, Pin-722 122, West Bengal, India;

**DESIRING** to support the cooperation between the Parties in yoga training programs for healthy life and life skill development;

**PURSUANT TO** the prevailing laws and regulations, policies and procedures of India.

**HAVE REACHED** the following understanding:

## **ARTICLE 1 OBJECTIVE OF COOPERATION**

The objective of this Memorandum of Understanding (MOU) is to co-operate in educational, physical, mental and spiritual practices in areas of mutual interest.

## **ARTICLE 2 SCOPE OF COOPERATION**

The Parties agree to implement cooperation programs including but not limited to:

- i) Exchange on best practices
- ii) Faculty and student enrichment
- iii) Curriculum development
- iv) Skill based certification courses that are left to the choice of the two Parties
- v) To promote locational advantages.

## **ARTICLE 3 LOCATION OF ACTIVITIES**

- i) The Parties agree to implement the programs stated in Article 2 at RNC.
- ii) Any changes of the location of the programs shall be mutually agreed upon by the Parties.

## **ARTICLE 4 EXECUTING AGENCY**

To implement this MOU:

- i) RNC appoints the Principal, Ramananda College, hereinafter referred to as RNC representative.
- ii) MYC appoints the ~~Principal~~ hereinafter referred to as MYC representative.

## **ARTICLE 5 FINANCIAL ARRANGEMENT**

- i) Any cooperation under this MOU is subject to the availability of funding sources and approval by relevant authorities
- ii) Any specific project of joint interest will be settled mutually.

## **ARTICLE 6 INTELLECTUAL PROPERTY RIGHTS**

- i) Each Party shall protect, within its territory, intellectual property rights of the other party in accordance with the domestic law
- ii) In case of specific arrangement, programs or projects that may result in intellectual property, the Parties shall conclude separate arrangement in accordance with their respective laws and regulations.

## **ARTICLE 7 CONFIDENTIALITY**

In the event that either Party wishes to disclose any data and/or information supplied in or resulted from the implementation of this MOU, the disclosing Party shall have prior written consent from the other Party.

## **ARTICLE 8 LIMITATION OF PERSONNEL ACTIVITIES**

The Parties shall ensure that their personnel engaged in the activities under this MOU shall engage only in activities under the framework of this MOU with respect to national laws and regulations.

## **ARTICLE 9 SETTLEMENT OF DISPUTES**

Any dispute concerning the interpretation and/or application of this MOU shall be settled amicably through consultation or negotiation between the Parties.

## **ARTICLE 10 AMENDMENT**

- i) This MOU may be amended or revised at any time by mutual written consent of The Parties, and such amendment shall form an integral part of this MOU.

- i) RNC appoints the Principal, Ramananda College, hereinafter referred to as RNC representative,
- ii) MYC appoints the ~~Ramananda College~~ hereinafter referred to as MYC representative.

## **ARTICLE 5 FINANCIAL ARRANGEMENT**

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## **ARTICLE 10 AMENDMENT**

- i) This MOU may be amended or revised at any time by mutual written consent of The Parties, and such amendment shall form an integral part of this MOU.

- ii) Such amendment or revision shall come into force on the date as may be determined by the Parties.

**ARTICLE 11**  
**ENTRY INTO FORCE, DURATION AND TERMINATION**

1. This MOU shall enter into force on the date of signing.
2. This MOU shall remain in force for a period of ..... (five) years and may be extended for another period of ..... (five) years by mutual written consent of the Parties.
3. Either Party may terminate this MOU at any time by giving written notification to the other Party on its intention to terminate this MOU, six (6) months prior to the date of the termination.
4. The termination of this MOU shall not affect the completion of any projects and programs in progress and not completed at the time of termination.


IN WITNESS WHEREOF, the undersigned, have signed this MOU.

DONE in duplicate at Ramananda College, Bishnupur, Bankura on the Sixth day of March in the year 2020 in 2 (two) originals, in English.

**RAMANANDA COLLEGE**

  
Dr. Swapna Ghorai  
Principal,  
Ramananda College,  
Bishnupur,  
Bankura-722 122

**MALLABHUM YOGA  
CENTRE**

  
Dhananjay Ghosh  
President,  
Mallabhum Yoga Centre,  
Bishnupur,  
Bankura-722 122

1. prady aband 6/03/2020
2. Shrityunjoy Ghosh 6/3/20
3. Minat Kanti Dha 6/03/20
4. Bandana Das 6/03/20