



**SWACHCHATAM MAHAVIDYALAYA SAMMAN
2017-2018**

Goa University



February 2018

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REPORT ON SWACHCHATAM MAHAVIDYALAYA SAMMAN

1. INTRODUCTION

As rightly pointed out by Berry (2002), there is clear link between environmental quality of academic institutions and educational/research performance of students/teachers as

- **Facility management systems** determine **environmental quality** in academic institutions,
- The **quality of the institution environment** shapes **attitudes of students, teachers and staff,**
- **Attitudes** affect **teaching and learning behaviour,**
- **Behaviour** affects **performance, and**
- **Educational performance** determines **future outcome of individuals and society as a whole.**

Berry (2002) also stressed that the existing research indicates that the productive and high performance institutions manifest common traits, such as

- A high performance institution seeks and provides adequate space and opportunities for students and teachers to spread out, reflect, interact, exchange information, examine and test ideas.
- The appearance of institution attracts students, teachers, and local community.
- The institution has adequate natural lighting that enhances productivity.
- The institution strives for student-friendly conditions throughout the building.
- The institution attracts good teachers and supports their retention.
- The institution is designed to reduce stress, is comfortable, has a pleasant atmosphere, and manages noise.
- The Institution has sanitary cleanliness.
- The risk of an adverse health effect is negligible/minimal.

The facilities management system of any academic institution must revolve around providing complete comfort to the students, to the teaching community and to the administrative supporting staff, being the three important stakeholders considered as crucial for the very success of any academic institution, in fact the three layers of the pyramid of any academic institution. Success of any learning Programme offered by any academic institution depends on how best and appropriately the entire environment of the academic institution is maintained and managed. The more the students/teachers feel comfortable, the more will be the learning/teaching outcome. Comfort includes providing a healthy environment in and around the academic institution. Thus, in tune with this very basic foundation of providing healthy environment to all the three stakeholders, **Her Excellency Mridula Sinha**, Governor of Goa has come up with a new scheme of awarding **Swachchatam Mahavidyala Samman** (for the first time in India) under the **Swachh Bharat Mission** to encourage, motivate, and institutionalize the concept of cleanliness among the students, teaching community, and administrative supporting staff from undergraduate level. At this stage, the student community can be shaped to be good citizens with a mindset to make the concept of 'Clean and Green India' a reality. The award will definitely motivate the institutions that are really practicing the concept of cleanliness from inception, and can be a bench mark to other institutions to emulate. The

overall aspect considered while evaluating the institutions is the existing practices followed to maintain good and efficient environment which positively affects the health and learning of the student/teaching community. The practice of cleanliness must be on a regular and continuous basis as the concept of cleanliness leads to overall improvement of the credibility of academic institutions.

The first survey was carried out during **2016-17** covering 54 academic institutions affiliated to Goa University, with the Swachchatam Mahavidyalaya Samman being won by **V M Salgaocar Institute of International Hospitality Education**. The second survey for the year **2017-18** covering 56 academic institutions affiliated to Goa University has been carried out. It is heartening to note that there are visible changes the cleanliness drive initiated by most of the institutions after the first survey as evident from the changes in their ranking. Two institutions *viz.*, Dempo College of Commerce and Economics, and Government College of Home Science that did not participate during 2016-17 were in the race this year.

2. CRITERIA ADOPTED FOR EVALUATION

In order to identify the best institution in the State of Goa having a planned and well managed system of cleanliness, a Committee was constituted and the Committee essentially employed **ten criteria** required to be followed as per the *Swachh Bharat Mission*. These aspects include:

1. **Stop littering and dispose garbage properly:**
[Garbage disposal practice and maintenance of the premises]
2. **Sort your garbage**
[Garbage segregation practice/Biodegradable v/s non-biodegradable]
3. **Maintain Hygiene**
[Overall ambiance, class rooms, office, toilets, canteen, *etc.*]
4. **Re-Use and Re-cycle**
[How the 2nd aspect is processed further]
5. **Say NO to Plastic**
[Ability to avoid use of plastics – connected to 2nd and 4th aspects]
6. **Consume what you need**
[Waste minimization practice – connected to 2nd, 4th, and 5th aspects]
7. **Water care**
[Minimal usage, recycling and rainwater harvesting practices]
8. **Reduce your carbon footprints**
[Facilities usage practices – AC, vehicles, *etc.* leading to Greenhouse Effect]
9. **Check Air Pollution**
[Waste and garbage disposal practices – connected to 2nd, 4th, and 5th aspects]
10. **Environmental education and tree plantation**
[Afforestation and Reforestation practices]

These **ten criteria** are **categorized into five sections** and are explained below. These criteria are employed for evaluating and verifying the facilities management aspects of an institution.

Section I: Stop littering and dispose garbage properly - Consists of 15 statements each having 4 points, totaling 60 points. As the famous saying goes “*First impression is the best impression*”, the moment one approaches or enters an institution, one should feel it as “*a welcoming place*”, having

- Landscape, safe drinking water facility, sanitation and with an efficient pollution management system,
- Good and safe access / Good signage to and inside the institution,
- Equal access for all members of the community / Litter and other waste management,

- The maintenance of playground, beautification and landscaping, buildings, equipment's and other features
- A policy of litter, vandalism and maintenance should be in practice and regularly reviewed,
- An existence of a compound wall and secured entry/exit points to protect from any wrongful and unauthorized entry, and
- Proper fire safety measures maintained in working condition and practiced.

These aspects were checked by the Committee members as they entered the campus. The presence of these requirements improves the attitude of the stakeholders positively and makes the institution more appealing. Focus is emphasized on safe drinking water facility and sanitation. Total number of safe drinking water units, besides the number of toilets was compared with the student strength.

Section II: Includes five aspects *viz.*, **Sort your garbage, Maintain Hygiene, Re-use and Re-cycle, Say No to plastic, and Consume what you need**, and consists of 15 statements each allotted 2 points, totaling 30 points. The Committee members verified all the above mentioned aspects during the visit. To achieve success, a level of awareness among the stakeholders and a definite policy in place at the institution. This was confirmed by assessing:

- Surroundings of the institution while entering / Various offices / Class rooms,
- Laboratories / Computer Labs / Library / Girls and Boys common rooms,
- Toilets / Canteen / Sports complex/auditorium,
- Re-using and Re-cycling areas (Waste disposal and management – incineration, composting, waste water treatment plants, *etc.*)

The Committee also interacted with students, teachers, administrative and canteen staff to assess the information about the duration of such practices at the institution. Besides the garbage management system of the institution including the hygiene existing and practiced in and around the institution was checked.

Section III: Single criterion *viz.* **Water Care** was evaluated. It consists of 10 statements each having 4 points, totaling 40 points. The Committee members obtained the information about the supply and demand for water in the institution, dependence on external and/or internal source, storage and dispensing facility, re-use and recycling of waste water, and overall availability of drainage facility. The Committee members also verified whether:

- Central water storage facility was maintained in hygienic condition,
- Planned capacity tallied with actual capacity,
- The water dispensing areas (wash rooms, toilets, drinking water facility, water taps outside the buildings, *etc.*) maintained properly,
- The water for other purposes including consumption came from same source or not,
- Purification mechanism was available for providing safe drinking water, and
- Any rainwater harvesting facility, re-use or re-cycle facility was available.

Section IV: Reduce your carbon footprints and Check Air Pollution - consists of 10 statements each having 2 points, totaling 20 points.

The Committee members verified whether the institution provide transportation facility for the students. The more an institution allows entry of vehicles, the more will be the carbon footprints. The Committee members verified the following aspects:

- Whether the institution has its own transportation facility for the students?

- Whether the institution has sufficient and proper parking place?
- Whether the parking place is maintained well and whether the stakeholders follow rules properly?
- Whether the institution has sufficient natural lights and ventilation in and around the buildings?
- Whether the institution use incinerator for burning the dry waste?

Section V: Environmental education and tree plantation - consists of 5 statements each having 4 points, totaling 20 points. The Committee members inspected the environmental awareness created by the institution among students and teachers and checked the following aspects:

- Whether the institution has enough greenery in and around the campus?
- Whether the institution has regular practice of planting saplings and maintaining them?
- Whether the institution imparts environmental education to its stakeholders?

Upon evaluation of the above ten criteria, the overall weighted average score was computed and a report was prepared. This exercise of evaluation and assessment was carried out in with complete objectivity.

3. BASIS OF CLASSIFYING INSTITUTIONS

The criteria used for classifying the institutions were based on weighted average score as explained below:

#	Category (% out of 170 points)	Weighted Average Score (WAS)	Grade	Remarks *
1	Excellent (above 80%)	136 >	A+	Excellent
2	Good (70% - 80%)	119-135	A	Good
3	Satisfactory (50% - 70%)	85-118	B+	Satisfactory
4	Unsatisfactory (40% - 50%)	68-84	B	Unsatisfactory
5	Poor (20% - 40%)	35-67	C	Poor
6	Very Poor (10% - 20%)	18-34	D	Very Poor
7	Extremely Poor (below 10%)	17<	E	Extremely Poor

* The condition existing in the institution with respect to **Health / Safety / Security of people**.

The present report is classified into three categories:

- Sarvaswachh Academic Institution in Goa
[All 56 institutions: **Annexure – 1**]
- Sarvaswachh Academic Institution in Goa
[Professional and Non-professional Institutions separately: **Annexure – 2 & 3**]
- Sarvaswachh Academic Institution in Goa
[Private and Government Institutions separately: **Annexure – 4 & 5**]

These classifications may help in improving the standard of the institutions in the coming years as those who ranked low may learn from the one which is ranked high. This classification may also enable the low ranked institutions to visit such high ranked institutions to learn about the best practices followed.

Annexure 1: Ranking (Overall for all 56 colleges)

#	Category		W	1 *	Rank	2 *	Rank	3 *	Rank	4*	Rank	5 *	Rank	Rank		Rank	
														WAS	2018	WAS	2017
1	A +	V M Salgaonkar Inst. of Intl Hosp Edn	100%	60.00	1	28.40	1	36.00	1	18.00	3	20.00	1	162.40	1	143.00	1
2	A +	Rosary College, Navelim	100%	60.00	2	28.00	2	28.00	5	18.00	4	20.00	2	154.00	2	121.60	5
3	A +	Don Bosco College of Engineering	100%	60.00	3	26.00	3	28.00	4	20.00	1	20.00	3	154.00	3	111.00	7
4	A +	V M Salgaonkar College of Law	100%	50.40	5	25.60	4	32.80	2	16.40	6	19.20	5	144.40	4	42.50	30
5	A +	V N S Bandekar College	100%	57.00	4	20.00	8	27.20	6	18.40	2	19.20	6	141.80	5	133.30	4
6	A +	M E S College	100%	49.60	6	22.00	5	32.00	3	18.00	5	20.00	4	141.60	6	63.80	22
7	B +	Smt Parvatibai Chowgule College	80%	42.24	10	21.76	6	22.40	9	16.00	7	16.00	7	118.40	7	137.00	3
8	B +	Carmel College	80%	45.12	9	18.88	9	23.68	8	14.08	9	16.00	8	117.76	8	85.75	12
9	B +	National Institute of Hydrography	80%	47.36	7	13.12	25	21.76	11	16.00	8	16.00	9	114.24	9	138.30	2
10	B +	Agnel Inst of Tech. and Design	80%	45.60	8	20.48	7	21.76	12	13.12	10	10.24	31	111.20	10	68.70	20
11	B +	Don Bosco College, Panjim	80%	41.60	11	18.88	10	22.40	10	11.52	12	14.08	12	108.48	11	63.90	23
12	B +	S S Dempo College	80%	40.64	12	18.56	11	24.32	7	10.24	15	12.80	15	106.56	12	--	--
13	B +	St Xavier College	70%	37.80	14	14.28	18	19.60	16	12.04	11	13.44	14	97.16	13	90.70	11
14	B +	Goa College of Homescience	80%	36.48	15	13.12	26	19.84	14	09.28	19	16.00	10	94.72	14	--	--
15	B +	Government College, Kandola	80%	34.40	17	15.36	15	19.84	13	10.24	14	14.72	11	94.56	15	63.30	24
16	B +	Goa College of Pharmacy	80%	38.40	13	15.04	16	19.84	15	07.36	28	09.60	32	90.24	16	16.05	49
17	B +	Shree Mallikarjun College	70%	34.16	19	15.40	14	19.04	18	06.72	32	14.00	13	89.32	17	110.30	8
18	B +	Dempe College, Miramar	70%	33.60	20	14.84	17	17.92	20	07.56	26	11.20	29	85.12	18	47.65	29
19	B	Padre Conceisao College of Eng.	60%	34.56	16	14.16	21	16.32	28	07.20	30	12.00	17	84.24	19	52.00	27
20	B	Rayeshwar Inst. of Eng & IT	60%	30.24	28	14.16	20	16.80	22	10.80	13	12.00	18	84.00	20	69.90	19
21	B	Government College, Quepem	70%	31.92	24	16.80	12	18.48	19	06.16	34	09.52	34	82.88	21	93.40	34
22	B	Narayan Zantye College	70%	34.30	18	13.16	24	15.12	35	07.84	25	12.32	16	82.74	22	69.90	18
23	B	G V M's College of Education	70%	32.90	21	12.32	29	17.92	21	07.56	27	11.20	30	81.90	23	83.35	13
24	B	PES Bandekar College of Pharmacy	60%	30.60	26	12.48	27	16.32	27	09.60	17	12.00	19	81.00	24	111.30	6
25	B	Government College, Sanquelim	70%	31.50	25	14.28	19	19.04	17	07.28	29	04.48	41	76.58	25	77.40	15
26	B	PES College of Arts & Science	60%	30.60	27	08.88	39	16.80	23	08.16	21	11.52	27	75.96	26	95.20	9
27	B	Nirmala Institute of Education	60%	24.60	36	15.84	13	16.32	31	05.76	36	12.00	20	74.52	27	48.75	28
28	B	Kamaxidevi Homeo Med. College	60%	23.52	37	12.48	28	15.84	32	09.84	16	12.00	21	73.68	28	70.50	17

W % Weightage
 1* Overall Ambience
 2* Overall Maintenance & Management
 3* Overall Water Management
 4* Overall Management of Environment
 5* Overall Result of Environmental Education
 WAS Weighted Average Score

A + Excellent *
 A Good *
 B + Satisfactory *
 B Unsatisfactory *
 C Poor *
 D Very Poor *
 E Extremely Poor *

* The condition existing in the institution with respect to **Health / Safety / Security of people.**

Increase of Weighted Average Score (WAS – shown in green color) is seen with 39 institutions out of 54 (two institutions were added new this year making the total 56); i.e., 72% of the institutions have improved their standard in terms of cleanliness, safety, and security of their campus. This improvement resulted in shifting of ranking as some of them shown greater improvement where as others shown lesser improvement or no change at all. The highest score of 2016-17 was only 143 out of 170, but in 2017-18 it has gone up to 162.40 out of 170. Those institutions shown greater improvement are placed among the top ranking institutions for the year 2017-2018.

Annexure 1: Ranking (Overall for all 56 colleges)

#	Category		W	1 *	Rank	2 *	Rank	3 *	Rank	4*	Rank	5 *	Rank	Rank		Rank	
														WAS	2018	WAS	2017
29	B	Vrundavan Inst. of Nursing Edn	60%	26.40	32	13.92	23	15.84	33	07.92	23	8.64	35	72.72	29	92.40	10
30	B	Goa College of Engineering	60%	25.68	34	10.08	31	16.32	29	06.96	31	12.00	22	71.04	30	67.20	21
31	B	PES College of Education	60%	28.20	29	09.12	38	13.44	39	08.16	20	12.00	23	70.92	31	72.50	16
32	B	Goa Collefe of Fine Arts	60%	27.84	30	08.64	41	14.40	37	07.92	22	11.52	28	70.32	32	24.00	40
33	C	Gomantak Ayurveda Mahavidyalaya	60%	26.88	31	08.64	40	16.80	25	03.60	45	12.00	24	67.92	33	38.50	32
34	C	Goa Dental College and Hospital	60%	32.16	23	08.40	44	10.08	45	07.92	24	08.64	36	67.20	34	38.00	33
35	C	Government College, Borda	60%	32.64	22	09.84	32	16.80	26	02.64	48	02.16	51	64.08	35	02.80	54
36	C	Kare College of Law	60%	26.16	33	11.04	30	16.32	30	06.24	33	03.36	48	63.12	36	16.65	45
37	C	Damodar College, Madgaon	60%	23.04	38	09.12	37	16.80	24	05.04	39	08.64	37	62.64	37	29.75	36
38	C	Institute of Nursing Education	60%	24.72	35	09.36	33	13.92	38	09.60	18	03.84	44	61.44	38	59.40	25
39	C	Fr Agnel College	60%	20.64	40	09.36	35	09.60	47	05.76	37	12.00	25	57.36	39	54.90	26
40	C	Don Bosco College of Agri	60%	17.28	45	14.16	22	08.64	48	04.80	41	12.00	26	56.88	40	78.40	14
41	C	Goa College of Hos & Cul Edn	50%	19.50	42	08.60	42	15.60	34	05.60	38	03.60	46	52.90	41	33.40	35
42	C	Goa College of Architecture	60%	22.08	39	09.36	34	11.52	42	04.32	42	05.28	39	52.56	42	17.40	43
43	C	C E S College, Cuncolim	60%	19.68	41	08.40	43	14.88	36	01.92	49	04.80	40	49.68	43	13.95	50
44	C	Saraswat College	50%	15.50	46	09.20	36	11.20	44	05.00	40	06.80	38	47.70	44	10.05	52
45	C	Inst of Psy & Human Behaviour	60%	18.72	44	08.16	45	09.60	46	06.00	35	03.84	45	46.32	45	20.95	37
46	C	PES Vidya Prabodhini College	50%	19.50	43	07.00	47	12.40	40	02.80	47	04.40	42	46.10	46	40.75	31
47	C	Goa Multi Facility College	50%	12.40	48	04.80	49	12.00	41	03.80	44	09.60	33	42.60	47	16.05	46
48	C	Government College, Pernem	50%	11.00	50	06.80	48	10.80	44	03.20	46	03.60	47	35.40	48	16.35	47
49	C	Ganpat Parsekar College of Edn	30%	12.30	49	07.44	46	08.16	50	04.08	43	03.12	49	35.10	49	16.02	48
50	D	Goa College of Music	40%	08.96	52	04.32	51	08.64	49	01.60	52	02.56	50	26.08	50	17.60	42
51	D	St Joseph College, Cortalim	60%	14.88	47	04.32	52	02.88	54	01.92	50	01.92	52	25.92	51	--	--
52	D	Goa Medical College	30%	10.08	51	04.80	50	05.04	53	01.68	51	04.32	43	25.92	52	20.85	41
53	D	G V Ms College, Ponda	30%	06.30	53	03.84	53	05.88	51	00.96	55	01.20	54	18.18	53	25.65	39
54	E	Swami Vivekananda College	30%	03.60	54	01.44	55	05.28	52	01.08	54	01.44	53	12.84	54	09.75	53
55	E	Mandre College of Com & Eco	30%	03.00	55	01.80	54	01.68	56	01.44	53	01.20	55	09.12	55	17.25	44
56	E	Pai Raikar School of Agriculture	30%	02.64	56	00.84	56	01.92	55	00.00	56	00.96	56	06.36	56	10.35	51

W % Weightage
 1* Overall Ambience
 2* Overall Maintenance & Management
 3* Overall Water Management
 4* Overall Management of Environment
 5* Overall Result of Environmental Education
 WAS Weighted Average Score

A + Excellent *
 A Good *
 B + Satisfactory *
 B Unsatisfactory *
 C Poor *
 D Very Poor *
 E Extremely Poor *

* The condition existing in the institution with respect to **Health / Safety / Security of people.**

Annexure 2: Ranking (Professional Colleges)

#	Category		W	1 *	Rank	2 *	Rank	3 *	Rank	4*	Rank	5 *	Rank	Rank		Rank	
														WAS	2018	WAS	2017
1	A +	V M Salgaonkar Inst.of Intl Hosp Edn	100%	60.00	1	28.40	1	36.00	1	18.00	2	20.00	1	162.40	1	143.00	1
2	A +	Don Bosco College of Engineering	100%	60.00	2	26.00	2	28.00	3	20.00	1	20.00	2	154.00	2	111.00	4
3	A +	Salgaonkar College of Law	100%	50.40	3	25.60	3	32.80	2	16.40	3	19.20	3	144.40	3	42.50	15
4	B +	National Institute of Hydrography	80%	47.36	4	13.12	10	21.76	5	16.00	4	16.00	4	114.24	4	138.50	2
5	B +	Agnel Institute of Tech.and Design	80%	45.60	5	20.48	4	21.76	4	13.12	5	10.24	16	111.20	5	68.70	10
6	B +	Goa College of Homescience	80%	36.48	7	13.12	11	19.84	7	09.28	10	16.00	5	94.72	6	--	--
7	B +	Goa College of Pharmacy	80%	38.40	6	15.04	6	19.84	6	07.36	16	09.60	17	90.24	7	16.01	26
8	B	Padre Conceisao College of Eng	60%	34.56	8	14.16	7	16.32	12	07.20	17	12.00	10	84.24	8	52.00	13
9	B	Shree Rayeshwer Inst of Tech & IT	60%	30.24	12	14.16	8	16.80	9	10.80	6	12.00	6	84.00	9	69.90	9
10	B	G V M's College of Education	70%	32.90	9	12.32	14	17.92	8	07.56	15	11.20	15	81.90	10	83.31	6
11	B	PES Bandekar College of Pharmacy	60%	30.60	11	12.48	12	16.32	13	09.6	8	12.00	8	81.00	11	111.30	3
12	B	Nirmala Institute of Education	60%	24.60	20	15.84	5	16.32	11	05.76	21	12.00	12	74.52	12	48.75	14
13	B	Kamaxidevi Homeo Medical College	60%	23.52	21	12.48	13	15.84	17	09.84	7	12.00	7	73.68	13	70.50	8
14	B	Vrundavan Inst of Nursing Education	60%	26.40	16	13.92	9	15.84	16	07.92	12	08.64	18	72.72	14	92.40	5
15	B	Goa College of Engineering	60%	25.68	18	10.08	16	16.32	15	06.96	18	12.00	11	71.04	15	67.20	11
16	B	PES College of Education	60%	28.20	13	09.12	19	13.44	21	08.16	11	12.00	9	70.92	16	72.50	7
17	B	Goa College of Fine Arts	60%	27.84	14	08.64	20	14.40	19	07.92	13	11.52	14	70.32	17	24.00	21
18	C	Gomantak Ayurveda Mahavidyalaya	60%	26.88	15	08.64	21	16.80	10	03.60	24	12.00	13	67.92	18	38.05	16
19	C	Goa Dental College	60%	32.16	10	08.40	23	10.08	23	07.92	14	08.64	19	67.20	19	38.00	17
20	C	Kare College of Law	60%	26.16	17	11.04	15	16.32	14	06.24	19	03.36	25	63.12	20	16.65	25
21	C	Institute of Nursing Education	60%	24.72	19	09.36	17	13.92	20	09.60	9	03.84	22	61.44	21	59.40	12
22	C	Goa College of Hosp & Culn Edn	50%	19.50	23	08.60	22	15.60	18	05.60	22	03.60	24	52.90	22	33.40	18
23	C	Goa College of Architecture	60%	22.08	22	09.36	18	11.52	22	04.32	23	05.28	20	52.56	23	17.40	24
24	C	Inst of Psy & Human Behaviour	60%	18.72	24	08.16	24	09.60	24	06.00	20	03.84	23	46.32	24	28.95	19
25	D	Goa College of Music	40%	08.96	26	04.32	26	08.64	25	01.60	26	02.56	26	26.08	25	17.60	23
26	D	Goa Medical College	30%	10.08	25	04.80	25	05.04	26	01.68	25	04.32	21	25.92	26	20.85	22

W % Weightage
 1* Overall Ambience
 2* Overall Maintenance & Management
 3* Overall Water Management
 4* Overall Management of Environment
 5* Overall Result of Environmental Education
 WAS Weighted Average Score

A + Excellent *
 A Good *
 B + Satisfactory *
 B Unsatisfactory *
 C Poor *
 D Very Poor *
 E Extremely Poor *

* The condition existing in the institution with respect to **Health / Safety / Security of people.**

Annexure 3: Ranking (Non-Professional Colleges)

#	Category		W	1 *	Rank	2 *	Rank	3 *	Rank	4*	Rank	5 *	Rank	Rank		Rank	
														WAS	2018	WAS	2017
1	A +	Rosary College, Navelim	100%	60.00	1	28.00	1	28.00	2	18.00	3	20.00	2	154.00	1	121.60	3
2	A +	VNS Bandekar College	100%	57.00	2	20.00	4	27.20	3	18.40	1	19.20	3	141.80	2	133.30	2
3	A +	M E S College	100%	49.60	3	22.00	2	32.00	1	18.00	2	20.00	1	141.60	3	63.90	11
4	B +	Smt Parvatibai Chowgule College	80%	42.24	5	21.76	3	22.40	6	16.00	4	16.00	4	118.40	4	137.00	1
5	B +	Carmel College	80%	45.12	4	18.88	5	23.68	5	14.08	5	16.00	5	117.76	5	85.75	7
6	B +	Don Bosco College, Panjim	80%	41.60	6	18.88	6	22.40	7	11.52	7	14.08	7	108.48	6	63.90	12
7	B +	S S Dempo College	80%	40.64	7	18.56	7	24.32	4	10.24	8	12.80	10	106.56	7	--	--
8	B +	St Xavier College	70%	37.80	8	14.28	12	19.60	9	12.04	6	13.44	9	97.16	8	90.70	6
9	B +	Government College, Kandola	80%	34.40	9	15.36	10	19.84	8	10.24	9	14.72	6	94.56	9	63.30	13
10	B +	Shree Mallikarjun College	70%	34.16	11	15.40	9	19.04	10	06.72	14	14.00	8	89.32	10	110.30	4
11	B +	Dempe College, Miramar	70%	33.60	12	14.84	11	17.92	13	07.56	12	11.20	15	85.12	11	47.65	15
12	B	Government College, Quepem	70%	31.92	14	16.80	8	18.48	12	06.16	15	09.52	17	82.88	12	33.40	17
13	B	Narayan Zantye College	70%	34.30	10	13.16	15	15.12	17	07.84	11	12.32	11	82.74	13	69.90	10
14	B	Government College, Sanquelim	70%	31.50	15	14.28	13	19.04	11	07.28	13	04.48	21	76.58	14	73.40	9
15	B	PES College of Arts & Science	60%	30.60	16	08.88	20	16.80	16	08.16	10	11.52	14	75.96	15	95.20	5
16	C	Government Ccollege, Borda	60%	32.64	13	09.84	16	16.80	14	02.64	24	02.16	25	64.08	16	02.80	28
17	C	Shree Damodar College	60%	23.04	17	09.12	19	16.80	15	05.04	17	08.64	18	62.64	17	29.75	18
18	C	Fr Agnel College	60%	20.64	18	09.36	17	09.60	23	05.76	16	12.00	12	57.36	18	54.90	14
19	C	Don Bosco College of Agriculture	60%	17.28	21	14.16	14	08.64	24	04.80	19	12.00	13	56.88	19	78.40	8
20	C	C E S College, Cuncolim	60%	19.68	19	08.40	21	14.88	18	01.92	25	04.80	20	49.68	20	13.95	24
21	C	Saraswat College	50%	15.50	22	09.20	18	11.20	21	05.00	18	06.80	19	47.70	21	10.05	26
22	C	PES Vidya Prabodhini College	50%	19.50	20	07.00	23	12.40	19	02.80	23	04.40	22	46.10	22	40.75	16
23	C	Goa Multifacility College	50%	12.40	24	04.80	25	12.00	20	03.80	21	09.60	16	42.60	23	16.50	21
24	C	Government College, Pernem	50%	11.00	26	06.80	24	10.80	22	03.20	22	03.60	23	35.40	24	16.35	22
25	C	Parsekar College of Education	30%	12.30	25	07.44	22	08.16	25	04.08	20	03.12	24	35.10	25	16.20	23
26	D	St Joseph College, Cortalim	60%	14.88	23	04.32	26	02.88	28	01.92	26	01.92	26	25.92	26	--	--
27	D	G V Ms College, Ponda	30%	06.30	27	03.84	27	05.88	26	00.96	29	01.20	29	18.18	27	25.65	19
28	E	Swami Vivekananda College	30%	03.60	28	01.44	29	05.28	27	01.08	28	01.44	27	12.84	28	09.75	27
29	E	Mandre College of Com & Eco	30%	03.00	29	01.80	28	01.68	30	01.44	27	01.20	28	09.12	29	17.25	20
30	E	Pai Raikar Agriculture College	30%	02.64	30	00.84	30	01.92	29	00.00	30	00.96	30	06.36	30	10.35	25

W % Weightage
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 3* Overall Water Management
 4* Overall Management of Environment
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Annexure 4: Ranking (Government Colleges)

#	Category		W	1 *	Rank	2 *	Rank	3 *	Rank	4*	Rank	5 *	Rank	Rank		Rank	
														WAS	2018	WAS	2017
1	B +	National Institute of Hydrography	80%	47.36	1	13.12	5	21.76	1	16.00	1	16.00	1	114.24	1	138.50	1
2	B +	Goa College of Homescience	80%	36.48	3	13.12	6	19.84	4	9.28	4	16.00	2	94.72	2	--	--
3	B +	Government College Kandola	80%	34.40	4	15.36	2	19.84	2	10.24	2	14.72	3	94.56	3	63.30	4
4	B +	Goa College of Pharmacy	80%	38.40	2	15.04	3	19.84	3	07.36	7	09.60	6	90.24	4	16.05	14
5	B	Government College Quepem	70%	31.92	7	16.80	1	18.48	6	06.16	10	09.52	7	82.88	5	33.40	7
6	B	Government College Sanquelim	70%	31.50	8	14.28	4	19.04	5	07.28	8	04.48	10	76.58	6	77.40	2
7	B	Goa College of Engineering	60%	25.68	10	10.08	7	16.32	8	06.96	9	12.00	4	71.04	7	67.20	3
8	B	Goa Colleges of Fine Arts	60%	27.84	9	08.64	11	14.40	9	07.92	5	11.52	5	70.32	8	24.00	9
9	B	Goa Dental College Bambolim	60%	32.16	6	08.40	12	10.08	13	07.92	6	08.64	8	67.20	9	38.00	6
10	C	Government College Borda	60%	32.64	5	09.84	8	16.80	7	02.64	14	02.16	16	64.08	10	02.80	15
11	C	Institute of Nursing Education	60%	24.72	11	09.36	9	13.92	10	09.60	3	03.84	12	61.44	11	59.40	5
12	C	Goa College of Architecture	60%	22.08	12	09.36	10	11.52	11	04.32	12	05.28	9	52.56	12	17.40	12
13	C	Inst of Psy & Human Behaviour	60%	18.72	13	08.16	13	09.60	14	06.00	11	03.84	13	46.32	13	28.95	8
14	C	Government College Pernem	50%	11.00	14	06.80	14	10.80	12	03.20	13	03.60	14	35.40	14	16.35	13
15	D	Goa College of Music	40%	08.96	16	04.32	16	08.64	15	01.60	16	02.56	15	26.08	15	17.60	11
16	D	Goa Medical College, Bambolim	30%	10.08	15	04.80	15	05.04	16	01.68	15	04.32	11	25.92	16	20.85	10

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Annexure 5: Ranking (Private Colleges)

#	Category		W	1 *	Rank	2 *	Rank	3 *	Rank	4*	Rank	5 *	Rank	Rank		Rank	
														WAS	2018	WAS	2017
1	A +	V M Salgaonkar Inst of Intl Hosp Edn	100%	60.00	3	28.40	1	36.00	1	18.00	3	20.00	2	162.40	1	143.00	1
2	A +	Don Bosco College of Engineering	100%	60.00	2	26.00	3	28.00	5	20.00	1	20.00	1	154.00	2	111.00	6
3	A +	Rosary College, Navelim	100%	60.00	1	28.00	2	28.00	4	18.00	5	20.00	4	154.00	3	121.60	4
4	A +	V M Salgaonkar College of Law	100%	50.40	5	25.60	4	32.80	2	16.40	6	19.20	6	144.40	4	42.50	25
5	A +	VNS Bandekar College	100%	57.00	4	20.00	8	27.20	6	18.40	2	19.20	5	141.80	5	133.30	3
6	A +	M E S College	100%	49.60	6	22.00	5	32.00	3	18.00	4	20.00	3	141.60	6	63.90	19
7	B +	Smt Parvatibai Chowgule College	80%	42.24	9	21.76	6	22.40	9	16.00	7	16.00	7	118.40	7	137.00	2
8	B +	Carmel College	80%	45.12	8	18.88	9	23.68	8	14.08	8	16.00	8	117.76	8	84.75	11
9	B +	Agnel Inst of Tech and Design	80%	45.60	7	20.48	7	21.76	11	13.12	9	10.24	26	111.20	9	68.70	18
10	B +	Don Bosco College, Panjim	80%	41.60	10	18.88	10	22.40	10	11.52	11	14.08	9	108.48	10	63.90	20
11	B +	S S Dempo College	80%	40.64	11	18.56	11	24.32	7	10.24	13	12.80	12	106.56	11	--	--
12	B +	St Xavier College	70%	37.80	12	14.28	15	19.60	12	12.04	10	13.44	11	97.16	12	90.70	10
13	B +	Shree Mallikarjun College	70%	34.16	15	15.40	13	19.04	13	06.72	23	14.00	10	89.32	13	110.30	7

14	B +	Dempe College, Miramar	70%	33.60	16	14.84	14	17.92	14	07.56	20	11.20	24	85.12	14	47.65	24
15	B	Padre Conceisao College of Eng	60%	34.56	13	14.16	16	16.32	21	07.20	22	12.00	18	84.24	15	52.00	22
16	B	Rayeshwar Institute of Eng & IT	60%	30.24	20	14.16	17	16.80	16	10.80	12	12.00	14	84.00	16	69.90	17
17	B	Narayan Zantye College	70%	34.30	14	13.16	20	15.12	27	07.84	19	12.32	13	82.74	17	69.90	16
18	B	G V M's College of Education	70%	32.90	17	12.32	23	17.92	15	07.56	21	11.20	25	81.90	18	83.35	12
19	B	PES Bandekar College of Pharmacy	60%	30.60	19	12.48	21	16.32	22	09.6	15	12.00	16	81.00	19	111.30	5
20	B	PES RSN College of Arts & Science	60%	30.60	18	08.88	29	16.80	18	08.16	16	11.52	23	75.96	20	95.20	8
21	B	Nirmala Institute of Education	60%	24.60	25	15.84	12	16.32	20	05.76	25	12.00	19	74.52	21	48.75	23
22	B	Kamaxidevi Homeo Medical College	60%	23.52	26	12.48	22	15.84	25	09.84	14	12.00	15	73.68	22	70.50	15
23	B	Vrundavan Inst of Nursing Education	60%	26.40	23	13.92	19	15.84	24	07.92	18	8.64	28	72.72	23	92.40	9
24	B	PES College of Education	60%	28.20	21	09.12	27	13.44	29	08.16	17	12.00	17	70.92	24	72.50	14
25	C	Gomantak Ayurveda Mahavidyalaya	60%	26.88	22	08.64	30	16.80	19	03.60	33	12.00	22	67.92	25	38.50	27
26	C	Kare College of Law	60%	26.16	24	11.04	24	16.32	23	06.24	24	03.36	34	63.12	26	16.65	33
27	C	Shree Damodar College	60%	23.04	27	09.12	28	16.80	17	05.04	28	08.64	29	62.64	27	29.75	29
28	C	Fr Agnel College	60%	20.64	28	09.36	25	09.60	33	05.76	26	12.00	20	57.36	28	54.90	21
29	C	Don Bosco College of Agriculturea	60%	17.28	32	14.16	18	08.64	34	04.80	30	12.00	21	56.88	29	78.40	13
30	C	Goa College of Hosp & Culy Edn	50%	19.50	31	08.60	31	15.60	26	05.60	27	03.60	33	52.90	30	33.40	28
31	C	C E S College, Cuncolim	60%	19.68	29	08.40	32	14.88	28	01.92	35	04.80	31	49.68	31	13.95	36
32	C	Saraswat College	50%	15.50	33	09.20	26	11.20	32	05.00	29	06.80	30	47.70	32	10.05	38
33	C	PES Vidya Prabodhini College	50%	19.50	30	07.00	34	12.40	30	02.80	34	04.40	32	46.10	33	40.75	26
34	C	Goa Multifacility Collegea	50%	12.40	35	04.80	35	12.00	31	03.80	32	09.60	27	42.60	34	16.50	34
35	C	Parsekar College of Education	30%	12.30	36	07.44	33	8.160	35	04.08	31	03.12	35	35.10	35	16.20	35
36	D	St Joseph College, Cortalim	60%	14.88	34	04.32	36	02.88	38	01.92	36	01.92	36	25.92	36	--	--
37	D	G V Ms College Ponda	30%	06.30	37	03.84	37	05.88	36	00.96	39	01.20	39	18.18	37	25.65	31
38	E	Swami Vivekananda College	30%	03.60	38	01.44	39	05.28	37	01.08	38	01.44	37	12.84	38	09.75	39
39	E	Mandre College of Com & Eco	30%	03.00	39	01.80	38	01.68	40	01.44	37	01.20	38	09.12	39	17.25	32
40	E	Pai Raikar School of Agriculture	30%	02.64	40	00.84	40	01.92	39	00.00	40	00.96	40	06.36	40	10.35	37

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