



## **St. JOHN'S COLLEGE OF ARTS & SCIENCE**

(An ISO 9001 : 2008 Certified Institution)  
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)  
(A Christian Minority Institution)

John's College Road, Ammandivilai, Kanyakumari District - 629 204,  
Tamil Nadu. Visit us at : [www.stjohnsskk.ac.in](http://www.stjohnsskk.ac.in)



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## **CRITERIA 7**

### **7.1.2 Environmental Consciousness and Sustainability and Divyangjan Friendly initiatives**

## **SOLAR ENERGY**

The college aims to promote the utilization of renewable energy through solar powered units around the campus. Realizing the fact that solar energy offers clean, green and inexhaustible energy, an attempt was made to harness solar energy by the installation, which is saving the electricity consumption. Photovoltaic powered solar LED lamps are installed in the college campus.





GST. No : 33ARFPR6754A1ZW  
PAN.No : ARFPR6754A  
State Code : 33

### Quotation

### DEFI TECHNOLOGIES

BETHEL JASON COMPLEX  
No.31/C3, DISLARY RD, VADASERY, NAGERCOIL - 01  
Contact No: +04652-406866, +91-9585018866  
Email: info@defitechnologies.in  
Web: www.defitechnologies.in

<b>BILLED FOR</b> ST.JHONS COLLEGE OF ART & SCIENCE AMMANDEIVELLA			<b>SITE DETAILS :</b>  Address :  State Code :		Mode : CASH Ref.No : DT/2021-22 /SQ/ 168 Date : 19-Nov-2021 P.O.NO : Date :	
S.NO	Part No	Item Description	GST%	Qty	Rate	Amount
1		10KVA SOLAR INVERTER UNIT - LIVGUARD	0.00	1	97,900.00	97900.00
2		165 AH TUBLER BATTERY	0.00	10	19,400.00	194000.00
3		335W SOLAR PANEL BOARD	0.00	24	14,650.00	351600.00
4		10SQMM COIL	0.00	1	14,250.00	14250.00
5		4SQMM COIL	0.00	2	5,100.00	10200.00
6	0247	INSTALLATION CHARGES	0.00	1	15,000.00	15000.00
<b>Total :</b>				<b>39</b>		<b>682,950.00</b>
Amount Chargeable (in words)			Rupees Six Lakhs Eighty-Two Thousand Nine Hundred Fifty Only			E.O.E
<b>Terms and Conditions</b> 1.Terms of payment will be 75% against order and 25% against material supply. 2.Price mentioned in this quotation will be valid only for 15 days.			<b>Receiver's Signature</b>		<b>for DEFI TECHNOLOGIES</b>  <b>Authorised Signature</b>	

This is computer generated Invoice

## **DEGRADABLE AND NON-DEGRADABLE WASTE**

The waste is generated by all sorts of routine activities carried out in the college including paper, plastics, glass, metals, foods, etc. The supervisor in each block ensures that the waste on each floor is collected at designated time intervals. The Safai-Mitra in each block collects, cleans, segregates and compiles the waste in the dustbins provided on each floor. The floor dustbins are emptied in movable containers/dustbins provided for each block and are taken to the dumping yard provided by the College. The College has contracted an authorized vendor who collects the waste from the designated place, segregates them, recycles them and disposes them at the landfills authorized by the government.



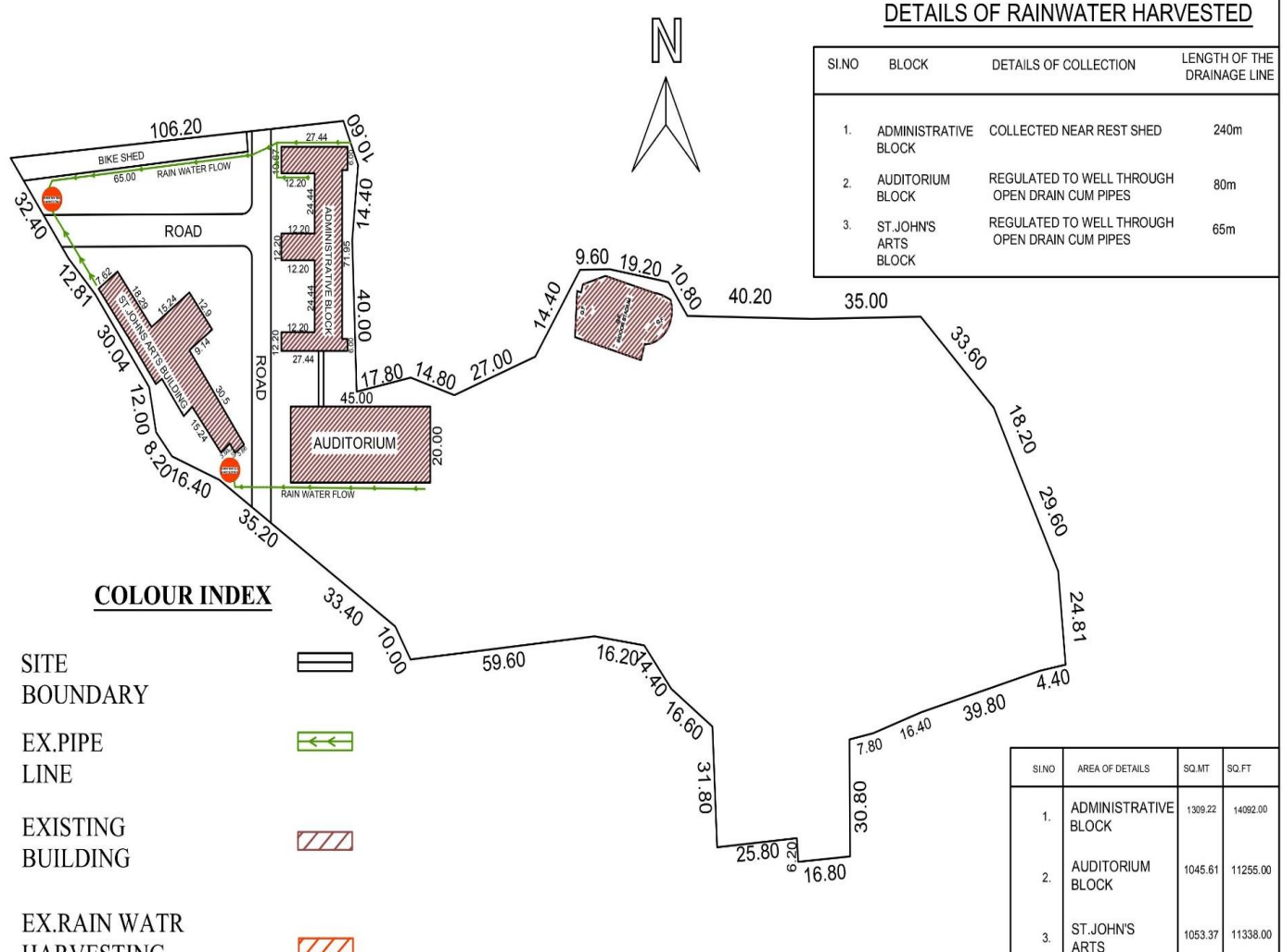
Liquid waste generated by the college is of sewage waste and cafeteria effluent waste. This waste is treated through Sewage Treatment Plants and the water is used for horticulture.

## **WATER CONVERSATION**

### **RAIN WATER HARVESTING**

To tackle the water scarcity hazards, there is an urgent need to boost ground water through suitable groundwater resource management. The management of ground water through artificial recharge of rain water by following roof top harvesting as a cost-effective method to boost ground water in the campus has been initiated. Rainwater harvesting captures, diverts, and stores rainwater for later use. Implementing rainwater harvesting is beneficial because it reduces demand on existing water supply, and reduces runoff, erosion, and contamination of surface water.

PLAN SHOWING THE EXISTING RAIN WATER HARVESTING ARRANGEMENTS IN THE ST.JOHN'S COLLEGE OF ARTS AND SCIENCE IN KADIYAPATTINAM VILLAGE, VELLIMALAI TOWN PANCHAYAT, KALKULAM TALUK, KANNIYAKUMARI DISTRICT.





**Er. A. RAJA KUMAR, M.E., A.M.I.E., AIV., C.Eng (I),**

- District Collector's Panel Engineer, ( E1 / 31222 / 2022 )
- Registered Structural Engineer Grade- II ( RSE / DTCP / 003 / 2022 )
- Govt. Approved Valuer ( AIV-A29897 )
- Chartered Engineer ( IEI - AM1807598 )
- Registered Engineer ( 150/ LS / 2019 / 0004 )
- Association of Consulting Civil Engineers (I), ACCE(I) M.No.7319 L



**CHARTERED ENGINEER & APPROVED VALUER**  
DISTRICT COLLECTOR'S PANEL ENGINEER

**☎ 9443119990, 8838261554**

**Date: 02-05-2023**

### **RAIN WATER HARVESTING CERTIFICATE**

The institution St. John's college of Arts and Science, Ammandivillai had installed a rain water harvesting system to ensure the supply of ground water. Rain water harvesting is done at several points throughout the campus. The rain water gathering pits were executed according to industrial standards. Rainfall is directed through wide shallow ditches that run through the length of the campus, ensuring rain water conservation. All open terraces are equipped with rain water collection pipe that are routed to the ground via planned drain. Drain from the entire Building flows to the lower floor via an exterior drain.

**Er. A. RAJA KUMAR, M.E., AIV., A.M.I.E., C.Eng.(I),**  
**Chartered Engineer (AM-1807598)**  
**ARK CONSTRUCTION**  
**29/69, Thazhiapuram Street**  
**Vadasery, Nagercoil - 629 001.**  
**Mob: 8838261554, 9443119990**

RAIN WATER HARVESTING DETAILS		
A.	Name of Institution	St. John's College of Arts & Science
B.	Geo Location	10.9609771, 78.0992512
C.	Ward (if any)	-
D.	Local Governing Body	Kadiapattinam village, Vellimalai Town Panchayat, Kalkulam Taluk.
E.	Date of Survey	10August 2009
F.	Date of Installation	10August 2009
G.	Date of work	10August 2009
H.	Method used	Roof rain – water system Recharge pits with adjoining it by roof outlets.
I.	Pit Position	Outdoors are closed pits. Indoors are open drained canal.
J.	Number of Pits used	02 Pits
K.	Materials used in Pit	Random Rubble dry packing (upside and down side)
L.	Total Plot area	3407.98 sq.m
M.	Roof area	3000.00 sq.m
N.	Run off	1800 cubic .m(Approx)
O.	Recharge capacity of RWH	800 mmt

Prepared by : A.Rajakumar

Date : 02.05.2023



*A. Raja Kumar*  
**Er. A. RAJA KUMAR, M.E., AM., A.M.I.E., C.Eng.(I),**  
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**A. RAJAKUMAR**  
**M.E., A.M.I.E., A.I.V., C.Eng.(I).**  
**(Regd. Construction Engineer)**  
**(Ngl. City Municipal Corporation)**



## **BOREWELL /OPEN WELL RECHARGE**

The college campus depends on ground water for all its needs and the daily need of water in the campus is around 1,35,000 liters approximately.

	LOCATION OF PITS
1	At Indoor stadium
2	Front of Johns ark



BOREWELL IN THE CAMPUS

## **CONSTRUCTION OF TANKS AND BUNDS**

As the water crisis continues to become severe, there is a dire need of reform in water management system and revival of traditional systems. As a part of revival to traditional wisdom, in this institute we kept 12 Nos of tanks to collect and storage the water for reuse on-site.



TANKS IN THE CAMPUS

## **WASTE WATER RECYCLING**

The waste water is proposed to be utilized effectively for gardening purpose. This will incidentally drastically reduce the usage of fresh water.



VEGETABLE GARDEN IN THE CAMPUS

## **MAINTENANCE OF WATER BODIES AND DISTRIBUTION SYSTEM IN THE CAMPUS**

The ground water is pumped into storage tanks located at different places in the campus. There are twelve number of overhead storage tanks in the campus. The water is distributed through well laid pipe network. Drinking water after treating in RO plant is supplied through a separate set of distribution pipes and water for all other purpose is supplied through another set of distribution pipes. Entire distribution system is well supervised by civil and water works committee to ensure that there are no leakages and wastages of precious water through joints, valves etc.



WATER PURIFIERS IN THE CAMPUS



## **GREEN CAMPUS INITIATIVES**

St. John's College has attractive campus spread over area of 13 acres of land. It provides quality higher education in Arts and Science streams at graduate, postgraduate and research level. It protects its own environment with its green campus initiative and keeps pollution-free campus. Environment development is its basic work with the educational policies implemented on the campus. Environmental conscious administration, the management and the students of the college look after the environment carefully. Every year, during the rainy season, tree plantations are carefully looked after.



## **GREEN LANDSCAPING WITH TREES AND PLANTS**

### **PEDESTRIAN FRIENDLY ROADS**

The campus is completely structured with paver block roads and the students and faculty members find ease in walking throughout the campus.





## **ST. JOHN'S COLLEGE OF ARTS AND SCIENCE, AMMANDIVILAI**

### **ECO – CLUB REPORT**

**CONVENER: Dr. VIBIN HERSHON**

Eco Club is laid out into rouse and invigorate our young personalities. Everybody knows the significance of Ecological insurance and improvement. Significant endeavors are expected to spread the message of ecological preservation. With the goal that the understudies are persuaded to really take dynamic job in protection.

To acquire information about climate and how one can contribute toward its improvement "Eco Club" at St. Johns College of Arts and science, Ammandivilai, is framed this club sorts out exercises and program to increment mindfulness among understudies about further developing ecological circumstances, for example, lessening contamination, establishing trees, saving waters and so on. Eco club at St. John's College will help the students to understand their pivotal role in conserving natural resources and limiting waste as their participation in various activities will help them to understand, have respect and care for their environment.

#### **Objectives**

1. To create awareness of local environmental issues among the students.
2. To knowledge them about the medical properties of flora.
3. To teach them solid waste management technique and organic farming.
4. To create a 'clean and green consciousness' among students through various innovate methods.
5. The idea of making WORLD SPARROW DAY came up during and informal discussion at nature forever society.
6. To motivate students to practice plantation of those trees that have specific properties like controlling air pollution.





ECO-CLUB MEMBERS

## **ECO - CLUB ACTIVITES**

### **WORLD SPARROW DAY CELEBERATION**



SAPLING DONATION



INSTALATION OF BIRD FEEDER

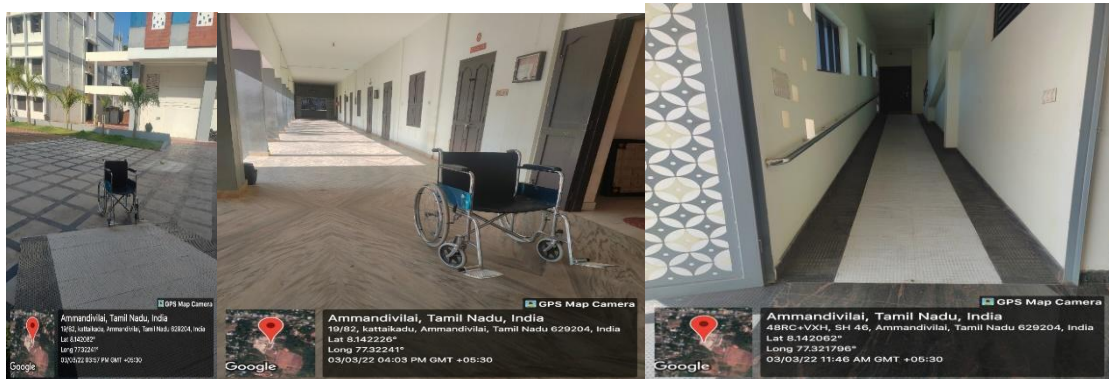
### **SPECIES IDENTIFICATION PROGRAMME**



Species Identifcation by Dr.Lohi Dhas, Head of the Department Botany, Scott Christian College, Nagercoil.

## **DIFFERENTLY ABLED (DIVYANGJAN) FRIENDLINESS RESOURCES AVAILABLE IN THE INSTITUTION**

St. John's provides various provisions in creating a disabled friendly campus. The management and faculty members ensure accommodation for each person with a disability and are willing to resolve access problems. The Rotaract Club donated a wheelchair for impaired students to use. St. John's campus has a barrier free environment and it is accessible for pupils with different abilities.





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### DECLARATION

I hereby declare that the details and information given above are complete and true to the best of my knowledge and belief.

Principal

Dr. M. EDWIN GNANADHAS  
PRINCIPAL

St. John's College of Arts and Science  
Ammandivilai- 629 204