

## **6.3.5 a - Tree plantation to minimise water usage**

B.S.Abdur Rahman Crescent Institute of Science and Technolgy has always taken intaitves to develop a good landscape in the campus. The Institue has more than 30 varieties of trees planted across the campus. The Institute has also focused on to plant trees to minimise water usage.

TREES	TOTAL Nos.					
NEEM TREE	269					
PORTIA	51					
TAMARIND	22					
MANGO TREE	33					
BRACKEN TREE	253					
COCONUT TREE	48					
SPIKELET	145					
ASH	40					
ARECA	49					
CASUARINA	36					
SPASMA	6					
ALMONDS	18					
KING TREE	3					
BANYAN TREE	4					
PALMYRA	4					
TEAK TREE	35					
BEEEMA BAMBOO	2075					
<b>TOTAL</b>	<b>3094</b>					

**OXYZONE CAMPUS – BEEEMA BAMBOO PLANTATION**

Bamboo plants are effective for conserving water due to their culms ability in keeping water for a long period and maintain underground water flow. It also gives contribution to natural system such as oil erosion control, water conservation, land rehabilitation, and carbon sequestration.

The Institute has planted bamboo saplings for 5000 sft run area throughout our compound to absorb dust, reduce CO<sub>2</sub> , to release more oxygen and to create pollution free environment. In future, the upcoming Central bus stand in vandalur is expected to produce lot of pollution inside the campus. Hence by planting bamboo, the campus will be dust free zone with good oxygen supply.The Institute has provided first OXYZONE inside the campus. Beema Bamboo Plants 2000 Nos are planted in whole campus for CO<sub>2</sub> reduction.



**OXY PARK**

The Institute is the proud owner of “Tissue culture bamboo plant” of variety “BEEMA”. This is one of the super bamboo, Every plant generates over 300 kh of oxygen every year which is sufficient for one person for a year. These plants are also contribute to water conservation . Oxy Park is created in the campus opposite to Convention Centre



**Oxy Park**



### Carbon Offsetting

Total Carbon Emission : 7369 tons/year

Classification of Green Areas	Area	Unit	CO <sub>2</sub> (avg.) absorption rate t/year	Total CO <sub>2</sub> absorption ton/year
Area of Tree - ref Google Map	2	Acre	160	336
Lawn & plant area	14	Acre	15	211
Beema Bamboo	2.5	Acre	80	200
Total green area in acre	19	Acre		
Total CO <sub>2</sub> Absorption				747
% of CO <sub>2</sub> offset within the campus				10.13%

% of Green Area	37.86%
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- ❖ 10% of Carbon foot print is offset by the above environment – friendly measures in campus.