

t d;dp nj hopy;El gtpay; epWt fk;



# Vanni Institute of Technology

VanniTech Phase 2.0 Proposal - Draft

*Rev: R05*

*Jey Kumara Surier*  
*President, VanniTech*  
*Chief Technical Officer, ITTPO*

October 25, 2003



The VanniTech Initiative by  
**International Tamil Technical Professionals' Organization**  
**San Jose, California, U.S.A.**

## **Executive Summary**

Vanni Institute of Technology is a high-tech educational institute established in the Vanni region of Sri Lanka by the International Tamil Technical Professionals' Organization. The institute, also known as VanniTech, has been inaugurated in June of 2003 as *ITTPO*'s Phase 1.0 of the project.

With the success of Phase 1.0, *ITTPO* would like to move to Phase 2.0 of the project which calls for allocation of a land and building of a permanent campus.

The proposed land size is about 150 acres and the budget is about US\$ 3.0 million.

# 1 Introduction

Vanni Institute of Technology is a high-tech educational establishment initiated by the International Tamil Technical Professionals' Organization (*ITTPO*).

Vanni Institute Technology, also known as VanniTech, is a result of a feasibility study, months of intense preparation, fund raising, syllabus preparation, procurement of equipments, building preparations and lots of discussions and other efforts by *ITTPO*. Hundreds of people were involved in, and contributed to the birth of VanniTech.

VanniTech has been inaugurated on June 23, 2003 in Kilinochchi in a temporary campus. So far it has generated significant amount of interest in the local community as well as in the international visitors. One of the UNDP visitors mentioned that the VanniTech is a classic case study of how Diasporas can contribute to the reconstruction of their motherland. "Wonderful and inspiration", "Technological Oasis", and "A dream come true" were the other few comments found in our guest book.

While this success, enthusiasm, and encouragement are still very much alive, *ITTPO* would like to move forward with our original plan of building a permanent campus.

## 2 *ITTPO* - International Tamil Technical Professionals' Organization

*ITTPO* is a registered non-profit organization based in the Silicon Valley region of California. It is a tax-exempt organization by the federal government of the U.S. *ITTPO* is also an approved foreign Non-Governmental Organization (NGO) by the government of Sri Lanka.

*ITTPO*'s mission is to coordinate with the Tamil expatriate professionals and their friends around the world, and use their technological expertise to help rebuild the North-East and to bring the area to be par with other developed countries.

## 3 VanniTech's Phases and Future

VanniTech is planned to take phase-by-phase build approach. Phase 1.0 is completed and Phase 2.0 is being planned, and this document is part of it. An Employment Incubation Farm is a part of this phase.

*ITTPO*'s vision is to build a high-tech educational institution for the people of North-East that offers the latest technological education with the international standard.

*ITTPO's* plan includes moving VanniTech from the temporary campus and to build a permanent one, and to convert the 9 month program into 2 year associate degreed program within two years, and then eventually to a 4 year institution - an institution with several disciplines including agriculture, business, civil, computer, management, marine, medical, technical etc. and to build an institution whose standards are unmatched in the region.

*ITTPO's* vision includes creation of high-tech employment and computerizes the North-East. The educational institution in conjunction with *ITTPO* would work towards incubating small high-tech business ventures and spin them off once they get matured. The businesses would meet the local needs and also focus on the international market. Students will be encouraged to participate, involved and lead these business ventures which could be funded by *ITTPO*.

### **3.1 VanniTech Phase 1.0**

VanniTech Phase 1.0 is a U.S. \$ 150,000 (Rs: 15,000,000) project. It's a plan to establish a technology institution in a temporary campus with about 60 students, offering 4 programs for duration of 9 months.

It's a successful project with better than expected result. More than three times the number of admitted students applied for admission from 8 districts. After an entrance exam and an interview 60 students were selected.

The enrolled students are very enthusiastic and heavily involved with the institution and its project. They are also involved in educating the school children and others in introducing computers and related technologies.

Employment opportunities are already being created for the students. As such "TechShack" – an on campus technology venture and an employment incubation center, is being established and informally has already been serving several customers in fixing computers and related hardware and also addressing some software requests.

At present, VanniTech has about 20 employees. A board will be formed to oversee the management of VanniTech.

### **3.2 Future Enrollment Projection**

It is reasonable to expect that if VanniTech is successful and can be run like a university, in fifteen to twenty years, this could produce about 2000 graduates each year with about 8000 to 10000 students enrolled.

### **3.3 Proposed Plan**

To continue with the vision of *ITTPO*, a land must be allocated to VanniTech, and constructing the facility must begin stage by stage. We should envision VanniTech in 20 years and start the building process to meet the first few years.

Governments, aid agencies and philanthropic organizations are requested to participate in the building of VanniTech.

### **3.4 Land Required**

Considering the future enrollment projection, possible population of the region and the regional requirements, and to fulfill the need for a higher educational institution that offers a university environment, a land the size of about 150 acres must be allocated for this purpose. This will be in line with other universities of the developed countries, and serve without much land limitation at least for the next quarter century.

### **3.5 Phase 2.0**

The Phase 2.0 is the building of VanniTech campus in the permanent land to accommodate double the number of students as of Phase 1.0, with reasonably minimum facilities.

The facility should include an Employment Incubation Farm. This would encourage young student entrepreneurs to take risk and start high-tech related business ventures with fewer risks for themselves. This would lead to creative solutions for the regional needs. This is a stepping stone to the development of the area and to prepare them to compete in the international market.

The farm basically provides the infrastructure needed to run few businesses for a short period of time.

When more funds are obtained, the campus can be expanded. Phase 2.0 is a subset of a bigger plan.

#### **3.5.1 Number of Students**

*ITTPO* would like to make VanniTech a two year college within the next two years. About 120 Students are expected to be enrolled for the first year in the new campus. If two year degree program is introduced, then it will have approximately 240 students after the first year in the new campus. Therefore, at the minimum, the Phase 2.0 should have the facilities to handle 240 students.

#### **3.5.2 Number of Staff**

To serve the need of about 240 students VanniTech has to increase the number of staff in both non-academic and academic sectors. This requires additional office spaces.

### **3.5.2.1 Non-Academic Staff**

There will be about 20 non-academic staff of about 10 may need offices.

### **3.5.2.2 Academic Staff**

There will be about 15 Academic staff and all of them need office space.

### **3.5.3 Stages of Phase 2.0**

Considering the fund needed for Phase 2.0 and the difficulties involved in raising the fund, the Phase 2.0 can be built in two stages. The building of Phase 2.0 in stages will facilitate the raising of funds.

The first enrollment in the new campus is about 120 students studying for their 2 year degree. After the completion of the first year, another 120 students are expected. Therefore the Phase 2.0 can be built in two stages, and it will be sufficient if the stage 1 can handle 120 students. The second stage can be completed before the end of the first academic year.

#### **3.5.3.1 Phase 2.0 Stage 1**

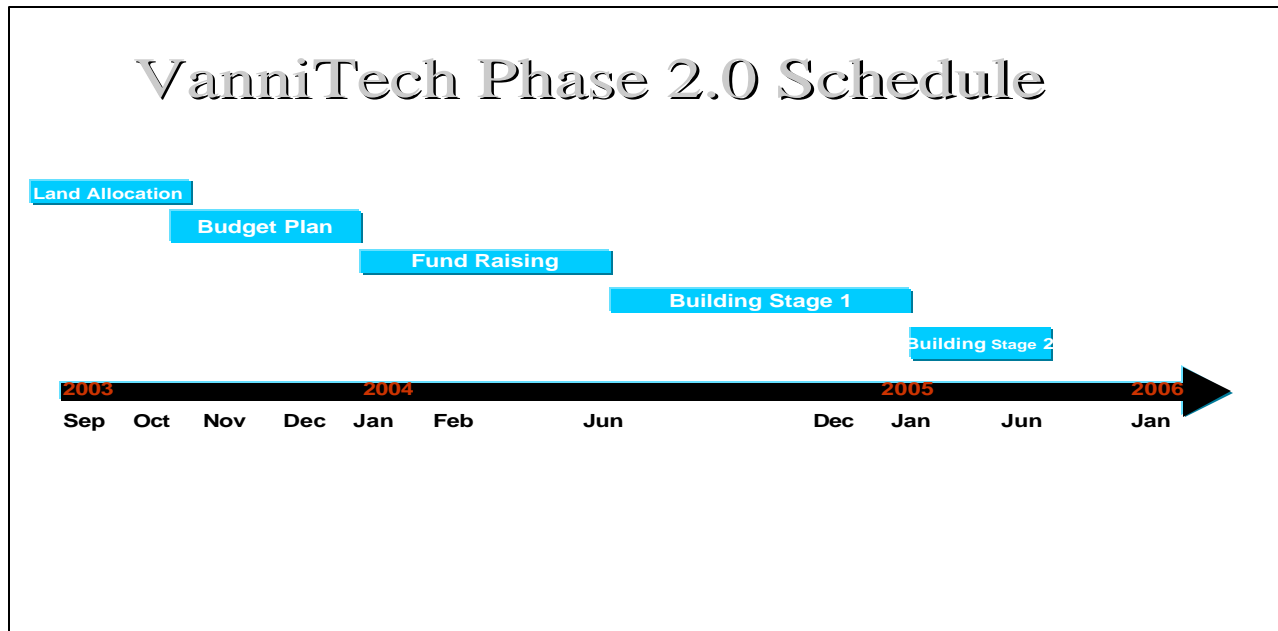
The Phase 2.0 Stage 1 can be classified as the phase that includes all the academic and accommodative spaces for 120 students and the staff. Considering the overhead cost in constructing some spaces, some of the academic spaces should be built for 240 students at the beginning.

Building of an Employment Incubation Park also is part of State 1, since this can assist the students from the previous enrollments.

#### **3.5.3.2 Phase 2.0 Stage 2**

The Phase 2.0 Stage 2 is whatever left from the Phase 2.0 Stage 1 to finish off the construction for the entire 240 students. Hostel facilities for the second batch of students will be in Stage 2. Some lecture halls and extra facilities to accommodate the new arrival will be part of the second stage.

### 3.6 Time Line for Phase 2.0



### 3.7 Budget

The estimated budget for Phase 2.0 is about US\$ 3 million. The budget doesn't include the recurring cost.

Following table gives the breakdown of the estimate. More detail can be found in Appendix A.

| VanniTech Phase 2.0 Grand Total |                       |                       |                       |
|---------------------------------|-----------------------|-----------------------|-----------------------|
|                                 | Stage 1               | Stage 2               | TOTAL                 |
| Building                        | \$1,523,842.11        | \$1,050,473.68        | \$2,574,315.79        |
| Furniture                       | \$97,263.16           | \$82,210.53           | \$179,473.68          |
| Equipments                      | \$118,947.37          | \$76,842.11           | \$195,789.47          |
| <b>GRAND TOTAL (US \$)</b>      | <b>\$1,740,052.63</b> | <b>\$1,209,526.32</b> | <b>\$2,949,578.95</b> |

## **4 Conclusion**

If the project can be funded, it would expand VanniTech and build an institution that would serve the population years to come. The success of VanniTech's Phase 1.0 is an indication of the need of the people and the region. Phase 2.0 will certainly take VanniTech to the next level and tap into the talented section of the society and provide them with the most needed technical direction and guidance and jumpstart the era of technology. It will lead the rehabilitation of a society that has been severely disturbed by years of war, and bring them out of poverty and misery and change their standard of living.

It will be a base for the expatriates to come in and share the expertise. It will expand the knowledge base, generate employment opportunities and bring technology to the doorstep of the people of North-East of Sri Lanka. It will create a technology based economy that will enable the people of the region to compete in the international market with their products while making them into potential consumers who can afford to do their purchases from the same market for other products.

This could be the seed for the 'Silicon Valley' and the 'Bangalore' of the Tamils.

# Appendix A

This section describes the proposed budget in detail.

## VanniTech Phase 2.0 Building Estimate

| Room                              | Numbers | Space in Square Feet |        | Space in Square Feet |              | Stage1       | Stage2       | TOTAL US\$ |
|-----------------------------------|---------|----------------------|--------|----------------------|--------------|--------------|--------------|------------|
|                                   |         | Stage1               | Stage2 | Unit Space           | Total Space  |              |              |            |
| Large Lecture Hall (for 120)      | 1       | 1                    | 0      | 2000                 | 2000         | 2000         | 0            |            |
| Medium Lecture Hall (60)          | 2       | 1                    | 1      | 1000                 | 2000         | 1000         | 1000         |            |
| Small Lecture Hall (30)           | 2       | 1                    | 1      | 500                  | 1000         | 500          | 500          |            |
| Software Lab                      | 3       | 2                    | 1      | 750                  | 2250         | 1500         | 750          |            |
| Hardware Lab                      | 3       | 2                    | 1      | 500                  | 1500         | 1000         | 500          |            |
| Library                           | 1       | 1                    | 0      | 4000                 | 4000         | 4000         | 0            |            |
| Admin Office                      | 10      | 5                    | 5      | 100                  | 1000         | 500          | 500          |            |
| Faculty Office                    | 15      | 8                    | 7      | 100                  | 1500         | 800          | 700          |            |
| Cafeteria – Kitchen               | 1       | 1                    | 0      | 300                  | 300          | 300          | 0            |            |
| Cafeteria – Lounge                | 1       | 1                    | 0      | 1000                 | 1000         | 1000         | 0            |            |
| Study/Meals Lounge                | 1       | 0                    | 1      | 500                  | 500          | 0            | 500          |            |
| Storage Room - Large              | 3       | 2                    | 1      | 200                  | 600          | 400          | 200          |            |
| Storage Room - Small              | 3       | 2                    | 1      | 100                  | 300          | 200          | 100          |            |
| Guard House                       | 1       | 1                    | 0      | 100                  | 100          | 100          | 0            |            |
| Generator Room                    | 1       | 1                    | 0      | 200                  | 200          | 200          | 0            |            |
| Study Huts                        | 5       | 3                    | 2      | 75                   | 375          | 225          | 150          |            |
| Recreation Lounge                 | 1       | 1                    | 0      | 750                  | 750          | 750          | 0            |            |
| Restrooms/Toilets                 | 15      | 8                    | 7      | 15                   | 225          | 120          | 105          |            |
| Auditorium                        | 1       | 0                    | 1      | 6000                 | 6000         | 0            | 6000         |            |
| Badminton / Volleyball Court      | 1       | 1                    | 0      | 100                  | 100          | 100          | 0            |            |
| Student Accommodation Room        | 60      | 30                   | 30     | 192                  | 11520        | 5760         | 5760         |            |
| Student Common Bathroom           | 45      | 25                   | 20     | 40                   | 1800         | 1000         | 800          |            |
| Student Common Toilet             | 45      | 25                   | 20     | 40                   | 1800         | 1000         | 800          |            |
| Student Laundry Area              | 2       | 1                    | 1      | 700                  | 1400         | 700          | 700          |            |
| Student Common Kitchen            | 10      | 5                    | 5      | 150                  | 1500         | 750          | 750          |            |
| Staff Accommodation Room          | 15      | 15                   | 0      | 100                  | 1500         | 1500         | 0            |            |
| Staff Common Bathroom             | 5       | 5                    | 0      | 40                   | 200          | 200          | 0            |            |
| Staff Common Toilet               | 5       | 5                    | 0      | 40                   | 200          | 200          | 0            |            |
| Staff Common Kitchen              | 6       | 3                    | 3      | 150                  | 900          | 450          | 450          |            |
| Visiting Instructor Accommodation | 4       | 4                    | 0      | 1000                 | 4000         | 4000         | 0            |            |
| Employment Incubation Park (25)   | 1       | 1                    | 0      | 5000                 | 5000         | 5000         | 0            |            |
| Landscaping*                      | 2       | 1                    | 1      | 5000                 | 10000        | 5000         | 5000         |            |
| Other*                            | 2       | 1                    | 1      | 8000                 | 16000        | 8000         | 8000         |            |
| Electrical/plumbing               | 0       | 0                    | 0      | 0                    | 0            | 0            | 0            |            |
| Mechanical                        |         |                      |        |                      |              |              |              |            |
| <b>TOTAL</b>                      |         |                      |        |                      | <b>81520</b> | <b>48255</b> | <b>33265</b> |            |

**TOTAL (US\$)** **\$1,523,842.11** **\$1,050,473.68** **\$2,574,315.79**

**VanniTech Phase 2.0 Furniture Estimate**

| Items                      | Numbers | Stage1 | Stage2 | Unit Price in SL Rs | Stage 1 Cost (Rs) | Stage2 Cost (Rs) | TOTAL US\$ |
|----------------------------|---------|--------|--------|---------------------|-------------------|------------------|------------|
| Chairs - Lecture Hall      | 240     | 150    | 90     | 4000                | 600000            | 360000           |            |
| Lab Tables - Software Lab  | 40      | 20     | 20     | 10000               | 200000            | 200000           |            |
| Lab Chairs - Software Lab  | 80      | 40     | 40     | 8000                | 320000            | 320000           |            |
| Lab Benches - Hardware Lab | 12      | 6      | 6      | 20000               | 120000            | 120000           |            |
| Lab Chairs - Hardware Lab  | 24      | 12     | 12     | 10000               | 120000            | 120000           |            |
| Office Desk                | 20      | 20     | 0      | 10000               | 200000            | 0                |            |
| Office Chairs              | 20      | 20     | 0      | 10000               | 200000            | 0                |            |
| Library Tables             | 15      | 10     | 5      | 10000               | 100000            | 50000            |            |
| Library - Study Booth      | 100     | 50     | 50     | 10000               | 500000            | 500000           |            |
| Kitchen Table              | 120     | 80     | 40     | 10000               | 800000            | 400000           |            |
| Kitchen Chairs             | 120     | 80     | 40     | 6000                | 480000            | 240000           |            |
| Kitchen Furniture*         | 1       | 1      | 0      | 100000              | 100000            | 0                |            |
| Beds - Hostel              | 200     | 100    | 100    | 7000                | 700000            | 700000           |            |
| Desks - Hostel             | 200     | 100    | 100    | 8000                | 800000            | 800000           |            |
| Other Furniture*           | 2       | 1      | 1      | 4000000             | 4000000           | 4000000          |            |

**TOTAL (US\$)** **\$97,263.16** **\$82,210.53** **\$179,473.68**

**VanniTech Phase 1.5 Equipment Estimate**

| Items                    | Numbers | Stage1 | Stage2 | Unit Price in SL Rs | Stage 1 Cost (Rs) | Stage2 Cost (Rs) | TOTAL US\$ |
|--------------------------|---------|--------|--------|---------------------|-------------------|------------------|------------|
| Computers                | 80      | 40     | 40     | 75000               | 3000000           | 3000000          |            |
| Scopes                   | 2       | 1      | 1      | 300000              | 300000            | 300000           |            |
| Air Condition            | 1       | 1      | 0      | 2000000             | 2000000           | 0                |            |
| Networking               | 1       | 1      | 0      | 1000000             | 1000000           | 0                |            |
| Phone Systems - Internal | 1       | 1      | 0      | 1000000             | 1000000           | 0                |            |
| Other Equipment          | 2       | 1      | 1      | 4000000             | 4000000           | 4000000          |            |

**TOTAL (US\$)** **\$118,947.37** **\$76,842.11** **\$195,789.47**

**VanniTech Phase 2.0 Grand Total**

|            | Stage 1        | Stage 2        | TOTAL          |
|------------|----------------|----------------|----------------|
| Building   | \$1,523,842.11 | \$1,050,473.68 | \$2,574,315.79 |
| Furniture  | \$97,263.16    | \$82,210.53    | \$179,473.68   |
| Equipments | \$118,947.37   | \$76,842.11    | \$195,789.47   |

**GRAND TOTAL (US \$)** **\$1,740,052.63** **\$1,209,526.32** **\$2,949,578.95**

## **Appendix B**

More information about the VanniTech Project can be found at:

**[www.ittpo.org](http://www.ittpo.org)**  
**[www.vanni.org](http://www.vanni.org)**

For further information, please email to:

**[directors@ittpo.org](mailto:directors@ittpo.org)**  
**[info@vanni.org](mailto:info@vanni.org)**

Postal Address:

**Vanni Institute of Technology**  
**Kilinochchi, Sri Lanka**

***ITTPO*** (International Tamil Technical Professionals' Organization)  
**3106 Pepita Court**  
**San Jose, CA 95132**  
**USA**