

# **One Village One Computer**

## **Age Old Problems Youthful Movement**

Submitted by:  
Team 1v1c

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## **Executive Summary:**

In the contemporary times of knowledge economy, Information Technology (IT) can play an important role as a central tool for the development of the village Community.

In keeping with this understanding, the founders of "One Village one Computer (1V1C)" have developed an innovative model of IT for development that keeps the local community at the forefront of the movement.

The mission of the 1V1C movement is "To develop a vibrant village community and to create a self sustaining open platform for solving important developmental local issues concerning education, communication, e-governance, Gender and other prime Problems, via the establishment of Information Technology Centers & to bridge the digital divide by developing IT enabled Social Capital."

The short term objective is to set up 1V1C centers in 95 villages in New Bombay and make them completely functional in the next 18 months. 1V1C aims to upgrade the current Resource Center in next three months to cater to the training needs of 500 young boys and girls per village.

Apart from this new Mumbai region, 1v1c is spreading in all over Maharashtra, we have reached 12 districts and now plan to start 12 centers . Two 1v1c IT Sewa centers at Manvat (Parbhani), Karad (Satara) are already functional since June'03.

The long term objective is the sustainability of the 1V1C community centers, and the establishment of a centralized unit to respond satisfactorily to growing IT needs of villages. Our efforts are directed towards supporting local people to take Ownership of these centers. We aim at facilitating processes to find solutions by leadership development and addressing problems in Health, Gender Issues, Education, e-governance, housing, agriculture and water.

One village one computer has encouraged a movement like democratic and flat organizational structure, leading to democracy at village level .We have given unique opportunity knowledge transfer through easy to understand technology platform. This approach results into real empowerment of common villagers.

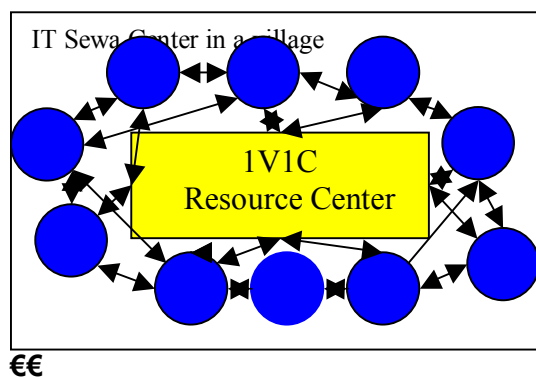
Gender equity is an integral to our vision of social transformation. We recognize that Our position is that the reshaping of knowledge/ knowledge society IT The fight against gender divide is an important aspect for 1v1c. The women, particularly from villages are multiply burdened. They are denied of education, kept away from technology and are given secondary status in the social life in general. 1v1c realized that it was necessary to take up the gender issues from very beginning and also it was necessary to train our cadres and reorient them for this task. In all 1V1C camps there was participation of women. A special IT camp was held exclusively for women on 4th-6th October in the village Murbi. It helped to empower the village woman activists, who have since started organizing meetings in other villages

The entrepreneurial approach and orientation is 1v1c's another key feature. The village youth is encouraged to bring in fresh ideas, identify needs & possibilities fulfill them through innovative methods. We take brainstorming Sessions and village meetings, which catalyze the whole process. This factor added to low financial capital investment in 1vc, fast self sustenance and absorption of one village one computers IT center in village community is feasible.

## **Action Plan for Community Development**

### **1v1C, Network of IT Sewa Centers and Resource Center, peoples' movement:**

The 1v1c Team completes a comprehensive process before setting up IT Sewa center for villages. We follow structure in which IT Sewa Centers, each one functioning for cluster of few villages around it & the whole area is backed up central resource center, which trains activists and fuels the IT Sewa centers in villages.



### **Network of Resource Centers and Village IT Sewa Centers**

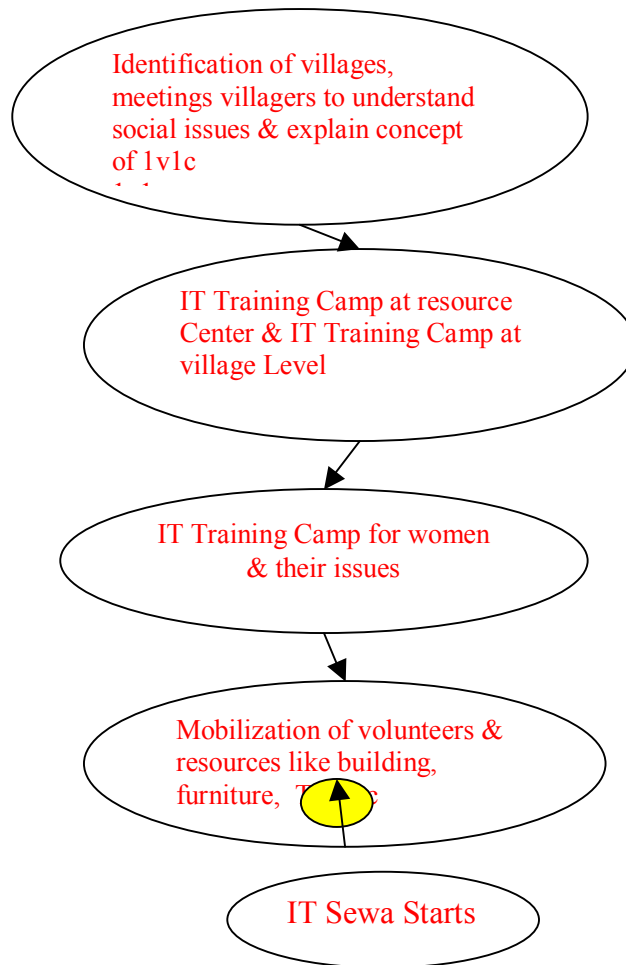
#### **The process of building IT Sewa Center**

The process of building first IT Sewa Center is carried over in such a manner that Complete community participation and education is ensured. at each level.

- (1) The young activists are given encouragement to take leadership, they are asked to Speak out their ideas and concerns from day one in training camps.
- (2) Girls are given equal (if not more) opportunity to participate in Process of formation of IT Sewa center.
- (3) The considerable investment part in terms of infrastructure like

Building, furniture, Electricity and telephone connection is given by villagers.

- (4) Government institutions like Gram Panchayat, ZP School, Medical officers are taken in confidence, formal meetings & informal discussions are arranged.
- (5) Revenue Model is built by villagers themselves, villagers are oriented that donor should be treated like investor. The revenue will be distributed in investment pay off, maintenance, salaries, transport etc.



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### **Installation of 1v1c IT Sewa Center**

This process is followed all over Maharashtra. It takes about three months of time to install a center, there is absolute assurance that 1v1c center will continue to exist, prosper and function. This process has ensured better controls on 1v1c centers all over Maharashtra.

## **How IT Sewa Center Works:**

Once the IT Sewa center is set up in a village, volunteer committees are formed addressing each issue village is facing. Each committee contains at least five volunteers, two are women. These are called **“Sanganak Sahaykari Samitee”** they play role to solve issues listed below.

- (1) Education
- (2) Health
- (3) Below Poverty line population
- (4) Housing
- (5) Gender
- (6) Water
- (7) Sanitation & cleanliness
- (8) Unemployment
- (9) Government Schemes
- (10) Agriculture & market rates
- (11) E-governance and right to information

In first phase of expansion in Maharashtra, different issues have been found important at different places.

- (i) For example, Employment Guarantee Scheme coupled right to information and e-governance and right to information are at the forefront of 1v1c's IT Sewa center and movement in Manvat (Parbhani).
- (ii) In new Mumbai, issue of Land acquisition by CIDCO & employment for local people in developmental projects are of prime importance, hence IT education relevant to social causes has been popular vehicle of 1v1c movement.
- (iii) The issues of Gender ,Education, E-governance, water management & leadership development have been tackled by 1v1c everywhere it goes.

Each **Sanganak Sahaykari Samitee** has a following role:

- (1)Work as functional expertise for identification and solution of Problems relating to each issue.
- (2)Collects, enters, and maintains the village data using necessary software.  
For example: Software **JalChitra** is used for water management Of village.
- (3) Takes necessary actions/negotiations where they find gaps and Discrepancies.
- (4) Arrange regular weekly meetings discussing the problems and decide action agenda to solve them.
- (5) Some Activities of these committees are routine, like water management committee on our Software **JalChitra** has to work continuously to plan and audit water resources and consumption.  
Some activities are one time , they come up into certain situation developed in a village, like health group **collects data** when village is hit by Malaria or Influenza and then take necessary action of communicating and arranging

medicines and doctors, based on factual reports through IT center and keep the track till patients are cured.

## **Special Features of Working Model of 1V1C**

### **Education @ 1v1c:**

1v1c has developed innovative method of IT education for masses. We have observed that application based collective training, referring and addressing various village issues is best way of imparting IT education.

(1) In 5 days standardized 1v1c IT camp, basic IT skills are taught directly by utility of IT for their day to day needs. The curriculum is developed according to that local circumstances and needs.

(2) Special curriculum is being developed for school children in ZP schools which will educate them in more entertaining and similar manner. First reports say that, this kind of education could enhance quality of school education and create more interest among students.

(3) The IT education is imparted on regular basis through train of young trained activists in a center. Our IT Training is effective in cost, time and content, compared to all other courses.

### **Success in figures:**

(i) 500 young activists trained in New Mumbai, they have taken lead in cadre development of volunteers and hence we have constant touch with all villages where we plan to start IT Sewa Centers.

(ii) 110 students in ZP School in Murbi (New Mumbai) are getting trained; villages have cordially arranged to pay Rs.20 per student to IT Sewa center, contributing to self sustenance. Underprivileged students are given free education. The 3 other villages in same region are interested in 1v1c's education. This is in accordance with Government decision to spread IT education.

### **The Effect of our IT Education**

- ❖ Interest in School has gone up like anything, more attendance has been recorded.
- ❖ Sensitization about other village issues is automatically done through content and instructions.
- ❖ Girl activists and students have come out and taken leadership, they Feel more self esteem and contribute towards leadership development.

## **E-governance & Right to information @1v1c:**

(i) E-governance saves lot of costs, time and efforts otherwise spent by villagers to take government related works. At this point of time, government is getting fast equipped to offer e-governance at Tahsil level, but finding it difficult to reach villages. 1v1c feels that void.

(ii) But at the same time proper dissemination of information through 1v1c center disallows misappropriation and corruption. This spreading of information is manually difficult and hence technology plays an essential role.

E-governance IT services we have offered so far (with sales figures):

- (1) Employment Card and status check over the net-  
Average 20 (per month)
- (2) Court dates and daily board display – Average 2 (per week)
- (3) Applications sent for jobs by youth -2 in first month of operation

Attempts to move ahead:

1v1c being grassroot agency and does not depend completely on revenues like private entrepreneurs, has more chance to be effective partner for government. We are discussing proposal for partnering with the IT department of government and e-Setu (formal govt. e-governance agency).

Services that can be offered

- (1) Certificates: Birth, Death, Cast, Marriage and Domicile certificate  
(Total 26 certificates.)
- (2) Application forms of government and private institutions, including  
Academic institutions.
- (3) Revenue department services – 7/12 extract, maps of fields,  
transaction and legal documentation
- (4) Computerization of Gram Panchayat work (with consent of local gram  
Panchayat). 1v1c has taken approach of taking all local govt. institutions  
in confidence & building partnership.

Feasibility Projections:

((Dist. Raigad: TBC))

- (1) 3, 00,000 certificates at district level  
(Avg. 3000 around 1v1c IT center, revenue 45000).
- (2) Revenue documentation 200 Acres Avg. land of each village  
(Avg. Spending, Rs.50 per Acre, revenue 10000)

## **Gender**

- Girls of age 16-22 are taking lead to run and operate 1v1c Center

- Murbi (New Mumbai) Center is completely run by girls.
- The women have started speaking in public meetings, expressing their views and they go to neighboring villages, arrange meetings build organization.
  - They are in Decision Making positions in committees addressing above mentioned community issues.
  - The men activists are given orientation to help women activists in time management for routine family work and participation in 1v1c activities easily.

### **Agriculture:**

- We are offering all the information related to fertilizers, pesticides, irrigation & government schemes through our IT center.
- Market rates in all possible surrounding places are collected and displayed at 1v1c centers so that farmers get better deal. For fruits even export opportunities over the net have been explored since past few weeks.
- We have facilitated two way knowledge exchanges between experts and villagers both exchange their knowledge, bring in modern methods and farmers share their traditional methods of tackling problems.

### **Other Services offered at 1v1c center:**

Apart from IT tools being used for above mentioned services, they will also offer routine services at reasonable rates

- Communication : Fax and Emailing
- Internet Surfing
- Scanning
- Printing
- Web Camera : To take photos and recording
- DTP : For preparing Wedding Cards, Posters  
Reports, Audits and other Documents etc.

## **Money Matters:**

1v1c has financial requirements for

- (1) IT Sewa Center in a village**
- (2) Resource Center**

### **IT Sewa Center:**

- (1) Hardware: Minimum set up is provided in the beginning by One Village One Computer Project Trust. This is handed over to IT cooperative formed in a village.

No	Item	Nos.	Total
1.	P4- Computer with 40 GB Hard Disk	1	Rs. 46,500/- (Rupees Fourty Six Thousand Five Hundred )
2.	52 X Multimedia kit	1	
3.	Printer	1	
4.	Scanner	1	
5.	Web Camera	1	
6.	Modem with Internet Connection and telephone line	1	
7.	Wiring and other Electrical Instruments	1	

\*\* Depending upon population/population Density of the area the details of Hardware set up are worked out for each center. For Example: In New Mumbai Server-nodes configuration can be worked out for villages.

\*\* It's a joint decision of villagers and 1v1c team how to scale up the center.

- (2) Place, Building, furniture and other one time infrastructural investment is taken care by villagers.
- (3) Recurring Expenses have to be earned from center revenue. The arrangements for recurring expenses are to be maid by villagers till the Center is set and functioning properly, incidental help can be raised in consultation with 1v1c team.
- (4) Once the revenue flow of center stabilizes it will be divided in four parts:
  - (1) Purchasing & Up Gradation Of Computers
  - (2) Recurring Expenses like Maintenance, Electricity and Telephone Bills
  - (3) Traveling to other centers
  - (4) Individual remunerations according to evaluation patter defined by1V1C.

**Resource Center:**

Resource Center of 1v1c plays important role in training the masses and activists. The resource team is functional in planning the whole movement and organizing, exercising controls on the whole process so that it functions smoothly.

**Hardware Requirements:**

No.	Description	Quantity	Rate in Rupees	Amount in Rupees
1.	Server	01	59000.00	59000.00
2.	Celeron 1.7 nodes	15	26,500.00	3,97,500.00
3.	Offline Smart UPS APC 700VA [Includes Power shoot	01	9,100.00	9,100.00
4	Umax Scanner Ultra slim 600	01	4,000.00	4,000.00
5.	Inkjet Printer HP 3325C	01	3,800.00	3,800.00
6.	Pocket PC Camera	01	6,500.00	6,500.00
7.	TV Tuner card Pinnacle TV+	01	3,500.00	3,500.00
8.	CreativeSBS15 Speaker	01	550.00	550.00
9.	8 Port 10/100 Switch [DX508PS]	01	2,900.00	2,900.00
10.	Cabling with IO & Jack [3 Meters]	03	110.00	330.00
11.	11. SIO including fixing [Dlink/Molex/Krone]	03	750.00	750.00
Total			488930.00	
Sales Tax (4%)			19570.00	
Total			5,08,500.00	

\*\* The hardware requirement of resource center could not be fulfilled in a seed capital we received. We rent the resources from time to time.

- (1) Chief Project Coordinator:  
Planning, conceptualization, controls, theoretical developments  
& overall coordination  
Remuneration: 3, 00,000 for Annual Contract
- (2) Coordinator: Education & Self Sustenance (Business)  
Design of Educational Content and instructions  
Planning and execution of the business aspect  
Remuneration: 3, 00,000 for Annual Contract
- (3) Coordinator: Gender issues and Women's team  
Consulting women on gender issues  
Strategic Planning of community Developments  
Remuneration: 3, 00,000 for Annual Contract
- (4) Organizers -5  
Organizing village Remuneration: 3, 00,000 for Annual Contract  
meeting in groups, explaining concepts of 1v1c, Develop Cadres  
Of volunteers
- Remuneration: 60,000 Annual contracts  
Total: Rs. 12,00,000

**Additional Expenses:**

- (1) Rent (2) Electricity Bill (3) Furniture (4) Provisional & Sundry Expenses  
These Expenses are given to B.T.R.Bhavan trust, New Mumbai head  
Office at C.B.D.Belapur

**Proposals In Pipeline:**

- (1) Interactive Content on Education for Village Students  
(2) Content Development on health and women's issues  
(3) CDs on works of Social Reformers in rural Maharashtra

## **Team 1v1c**

Founder Members:

- (1) **Mr. Anil Shaligram**: Project Coordinator  
(Social activist & Journalist writing on technology and economic issues.)
- (2) **Mr. Krishna Khopkar**  
(Social activist & veteran leader.)
- (3) **Mr. Kumar Shiralkar**  
(Social activist & leader of landless peasants.)
- (4) **Dr. Ashok Dhawale**  
(Social activist and leader of peasants)
- (5) **Ms. Kiran Moghe**  
(Social activist, graduate of London school of economics.)
- (6) **Mr. M.S. Sridhar**  
Head: Technology and Software Development  
(Joint Managing Director: Cyberscape Multimedia Ltd.,)
- (7) **Mr. Prashant Deshpande**  
(Senior Executive (HR), WIPRO Ltd., Bangalore,  
Theory development for 1V1C)

- (1) **Mr. Harshavardhan Purandare**  
Mumbai Head, Asha for Education
- (2) **Asmita M.J.**  
International Consultant on issues of Gender and Social Development

**MOST Importantly 500 young activists spread over New Mumbai and Maharashtra!**

## **Partner Organizations:**

1. Asha For Education: Our closest partner in education, Leading Educational Movement in U.S. which has over 200
2. Virtual University: Ambitious project of United Nations to fight with drought in arid and semi-arid areas, run by ICRISAT. We have been given honor of launching first VU Center. They are ready to implement their solutions to fight drought through our Centers.
3. Maharashtra Foundation U.S., they helped us since beginning and approved seed funding \$40000 for One Village One Computer. They have adopted 1v1c movement and spreading the word in U.S.
4. Marathmoli: Womens Network working closely with 1V1C on Gender Issues
5. Cyberspace Multimedia Ltd, Leading regional technology company, is helping us with all Marathi Technology for free.
6. VJTI Community Polytechnic and Free Software Movement (Head : Prof. Jitendra Shah) is helping with free source software and use of Linux and other Educational tools.)
7. S.P. Jain Business Management School: One of the leading b-schools in India, helps us with their expertise in Business & planning aspects, we are working out close partnership for future.

**Comparison With Other IT for Rural Development Models:-**

<b>Sr.No.</b>	<b>Conventional Tele center</b>	<b>1V1C's IT center</b>
1.	Techno centric	Community centric
2.	Individual Entrepreneurship	Social Entrepreneurship
3.	Isolated Material Benefits dominant	Social Gains Dominant
4.	Acceptance of technology as it is	Social shaping of technology
5.	All gains are appropriable for a set of individuals investing in the venture	Social gains along with personal appropriable gains for all individuals.
6.	Community may remain marginalized	Sociopolitical and cultural community Leadership
7.	Bureaucratic centralized working	Democratic and Politically Assertive community process
8.	High Capital Investment	Low Capital Investment as a lot of investment subsidized by the community
9.	Predetermined and static	Organic and evolving

## **Conferences and Camps :**

We arranged two conferences for young 1v1c activists in New Mumbai.

- (1) 26 th Jan 2003 – 1000 volunteers gathered to discuss their issues and future. The important decisions were taken in meeting to tackle issues of project affected people due to urbanization.
- (2) 15 th August 2002 – Village youth: boys and girls gathered at B.T.R. Bhavan Belapur to unite and stand for issues of their respective villages.

1v1c is constantly arranging camps, apart from routine camps (around 30), we successfully hosted 2 Maharashtra wide camps where ,70 activists got IT training in order to be part of 1v1c movement and run IT centers.

## **Moving Fast :**

After initial phase of experimentation, we have started moving head all over New Mumbai Maharashtra. We have identified and spotted village groups keen on getting involved in 1v1c. We are mentioning a list of centers to be opened in next few months.(Three of which are already functional)

1. Murbi (New Mumbai)
2. Roadpali (Navi Mumbai)
3. Ulwa (Navi Mumbai)
4. Kopra (Navi Mumbai)
5. Peth (Navi Mumbai)
6. Taloja Village (Navi Mumbai )

(These cover around 25 villages in New Mumbai area , total 95 are being targeted.)

### **Centers to be opened in other part of Maharashtra:**

Mod, Nandurbar Dist.,  
Talasari, Thane Dist.,  
Surgana, Nashik Dist,  
Manwat, Parabhani Dist., (Opened)  
Karhad, Satara Dist., (Opened)  
Umaraga, Usmanabad Dist.,  
Sangola, Solapur Dist.,  
Sangamner, Nagar Dist.,