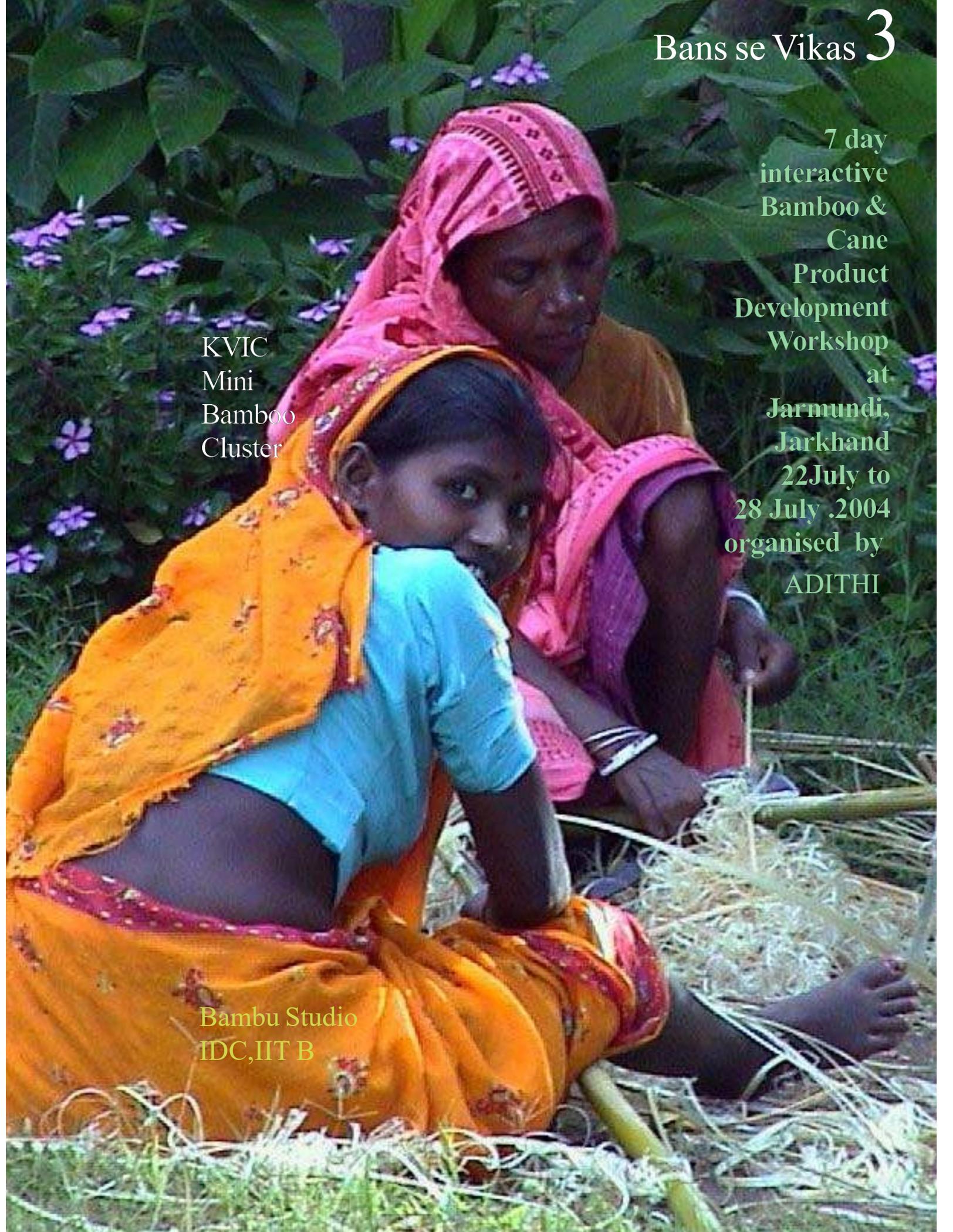


7 day
interactive
Bamboo &
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Product
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at
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22 July to
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ADITHI

KVIC
Mini
Bamboo
Cluster

Bambu Studio
IDC, IIT B





Bans se Vikas 3

Report on
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KVIC
Mini
Bamboo
Cluster
project

Bambu Studio
IDC, IIT Bombay
Mumbai



**KVIC Mini Cluster project
7 day interactive Bamboo and
Cane Product Development
Workshop at
Jarmundi
NGO : ADITHI**

Under KVIC Mini Bamboo Cluster project, 12 centres are being taken up in the states of Jarkhand, West Bengal, Chattisghar, Orissa and North East.

Under the scheme a 7 day workshop is conducted in each of these centres along with technology and design inputs.

Two toolkits, Two sets of 4 hand operated machines. two tables, some special tools and moulds are given to each group organised by the NGO.

25 craft persons are trained. Each craft person is given a mini-toolkit along with the course material.

Two selected trainers from the group are further trained at IDC for a week as part of the scheme.

The comprehensive package enables the NGOs to start off a Mini Bamboo Centre around which a cluster can grow.

This report elucidates the proceedings of the workshop held at Jarmundi, Jarkhand Organised by ADITHI a well known NGO in the area.

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Industrial Design Centre,IIT Bombay
Mumbai-400 076.
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tel: 022 2576 7828(O)



ADITHI



Adithi is a NGO situated in Bihar and Jarkhand. It was started in 1988 by

Ms Viji Srinivasan and her husband, involving local people..

The NGO aims to promote empowerment of women and girl children. The empowerment of resourceless women and girl children is done through *awareness programmes, leadership development, livelihood and income generation programmes in key economic sectors by forming self sustainable groups.*

ADITHI has handed over successfully programmes in their project areas to local NGO's.

ADITHI also provides technical, financial and managerial support to 13 NGO's in the districts of Gaya, Rohtas, and Jehanabad.



ADITHI is working in 2 districts of Jharkhand and 8 districts of Bihar.

ADITHI stands for

Agriculture,
Animal husbandry,
Dairy,
Industries,
Tree plantation,
Handicrafts
Handlooms,
Horticulture,
Home based workers.
Integration of women





Adithi has its main office in Patna.

Address: 2/30 SBI Colony II,
Bailey Road,
Patna - 800 014 Bihar.

Telefax - 0612-2593018

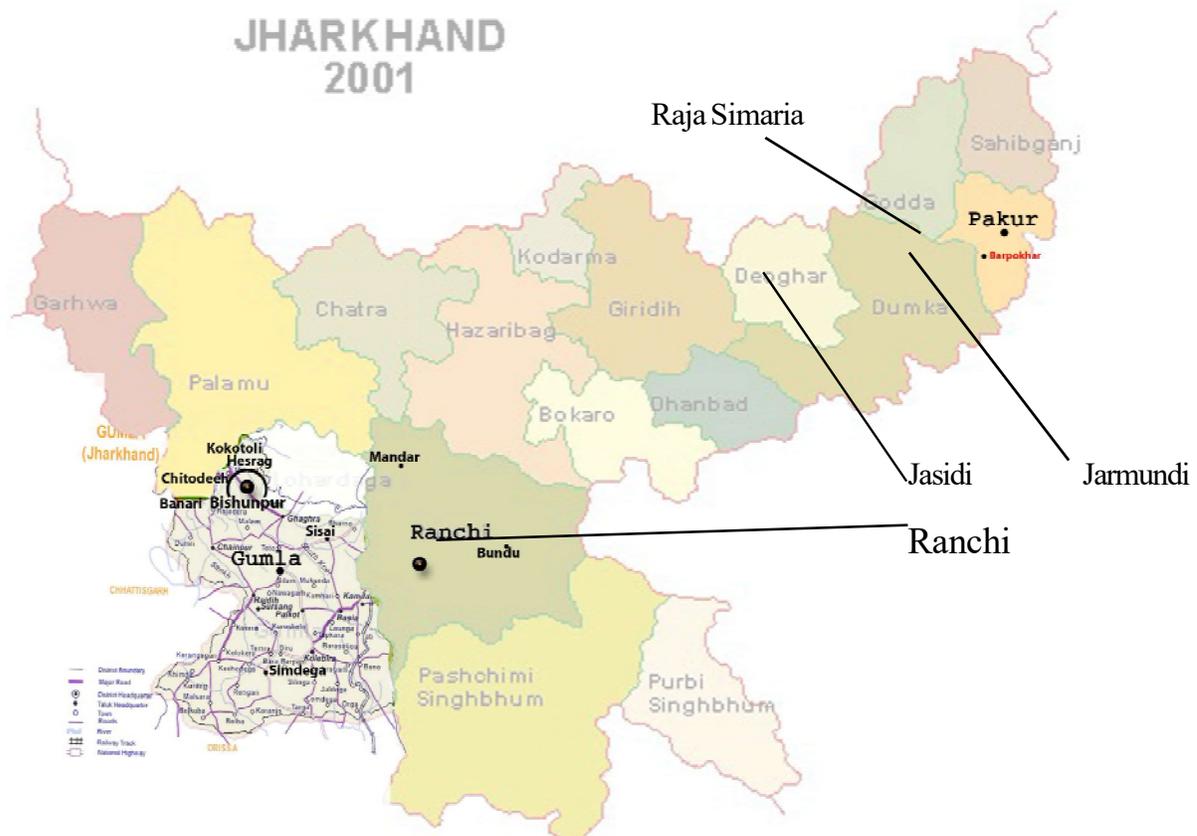
The M.B.C. will be at the village
Raja Simaria
once a shed is built.

Adithi has an office and a Campus
(with women's hostel) at
Jarmundi (Tel:06431 230822).

Patna to Jasidi takes about 5 hours
by train.

Jasidi to Jarmundi - by road about 2
to 3 hours.

Jarmundi to Raja Simaria - 40 min.
to 1 hr
by road.





Identification of MBC



Dr.Skye Morrison



Mr. Congress at IGNOU office



Jarmundi women's hostel



A Survey trip was made by Prof A G Rao, 3 months before the workshop. Mrs Viji Srinivasan, M.D. of ADITHI and Dr Skye Morrison a Canadian Textile designer working in the area accompanied Prof.Rao on the trip to Jarmundi from Patna. The village Raja Simaria is about 15 Kms from Jarmundi. After deliberations it was decided by ADITHI to conduct the workshop at Jarmundi as ADITHI has a womens' hostel there. ADITHI also runs the distant education programme of IGNOU which has become popular. IGNOU class rooms were made available for the bamboo workshop by Dr Misra of IGNOU (co-ordinator of the programme) as it was a holiday time. An additional room nearby was also available for dyeing as well as drying bamboo strips. All participants stayed on the campus during the workshop. Food and shelter was provided by ADITHI for the participants.

Jarmundi campus got an electric connection just before the workshop.

The IDC team stayed in Vasukinath Hotel run by the state government. A vehicle was hired to reach the hotel everyday as it was about 4 Km away.



Dineshji with the Katang sapling

Raw Materials

For Craft purposes 'ROPA' bamboo is used. It is grown around in the villages nearby, but the Mahuli community does not own land. They are forced to buy bamboo at Rs 50/- each. Bangla Katang (with less thorns) and Katang (thorny bamboo) are also grown in the area. These bamboos are used for fencing and house construction.

We found a nearby bamboo plantation in a wasteland where 10,000 saplings have been planted. Most of the saplings were of 'Katang' variety less useful for craft work.

Craft Skills

The craftpersons here belong to the traditional craft community. They are skilled in weaving baskets. Typical double weave baskets made in the villages here are well-made (sometimes coloured).

Inside of the basket is made of 4 mm wide strips. Central spines in wider bamboo strips are used for the outside basket. The fine flat weave mat is kept in the outer basket and shaped into the basket shape by pressing. The rim is fixed around this. One gets a basket with a finely finished mat inside. These baskets are used for variety of uses in the villages and nearby homes. People store Vegetables, grains, atta etc. in these baskets.

Generally women are making the strips and outside basket as well as the fine mat which goes inside. Men are doing the shaping the inside mat as well as fixing the rim outside. Men also sell the baskets in the 'Market'!





The craftpersons also make the 'soops'. Craftpersons often make good quality baskets on special demand when asked by an important person or official. There is a tendency not to make such exclusive variety for the general market as they have a feeling that people are not ready to pay more. As such there is no segmentation of the product based on quality.



Local Markets For Baskets

Baskets are generally sold to middlemen who sell them in the local markets as well as 'Jatras'.

In the market we found baskets coated with cowdung and mud being sold for 25 to 30 rupees to store grain.



Patna Market

We also found colourful baskets in Patna market. Basket makers do not paint these baskets. The shopkeepers are painting with cheap paints to enhance the attraction. For 'chat puja' coloured baskets are preferred as the use remains ceremonial and one time. Where as the regular baskets remain plain. To our surprise we found that the person who was selling the baskets was a degree holder!





In Patna Cycle rickshaws are still a popular mode of transport. The foldable canopies are made of bent bamboo frames. One craftsman in the area who has specialised in bending thick bamboo strips on small coal stove supplies these frames to rickshaw makers. The foldable canopy goes as an accessory to the cycle rickshaw and can be bought separately. It is possible to develop modular furniture items for use in modern houses using this technique and skills of bending bamboo, if a project with as focus is taken up.



Multiple demands of City life has also brought many adaptations in Bamboo craft. A large number of Cane furniture shops have come up in Patna. In these road side shops bamboo furniture items like shelves with plastic bindings costing Rs.100/- to rs.150/- are sold. These are the cheapest shelves one can get in the market. They probably last for a year if they are carefully handled. The bamboo is not treated, so the products are prone to insect and fungus attack. They are not stackable and difficult to transport, so become only viable if made and used in that vicinity. One can also see the stands for street vendors in bamboo made with 'Moda weave' being sold. These items though have regular demand, are limited in volume of sale.



Strategy for Jarmundi

Craftpersons at Raja Simaria, make baskets and other items regularly. A market chain already exists. But the earnings are rather low. Individual incomes may not exceed Rs 40/- to Rs 50/- per day and the demands are seasonal and the earnings go down when the demands are less.

It is essential to introduce 'value added' products which can be sold in the urban markets and markets in the bigger cities like Delhi and Bombay as well as other countries through exhibitions. Since ADITHI is already helping the near by village in selling 'Sujuni' and 'Khatwa' (Applique) work successfully a product line was chosen for the workshop suitable for metro and foreign markets through exhibitions where consumers are looking for expressions in tribal culture.

Following products were chosen keeping this strategy in mind.

Hair Clips

Set of Multipurpose Baskets

Tea Coasters with cloth stand.

Double weave baskets with new weave

Plate with woven mat in natural colours.

All the colouring was done with natural dyes. Local beads were used on the multipurpose baskets to bring 'Tribal Identity'. The craft persons were also encouraged to introduce random elements in the weaves to their liking to bring in their own expression. As the workshop proceeded ADITHI got the orders for 1000 items in each category to be displayed and sold at Toronto and Japan later. the craft group could make only 300 items.

ADITHI also had worked out market plans to take these items to exhibition at Delhi as well as sell 'well- made baskets' in Patna at the time of 'Chat Puja' through ADITHI shop.

Mrs. Viji Srinivasan even had a plan to invite the chief minister Smt. Rabri devi to release the baskets to give it cultural positioning!



PREPARATIONS FOR THE WORKSHOP

For each workshop once a preliminary strategy is worked out and timetable made, list of material required is worked out. A list of material to be procured or prepared by NGO is estimated and sent beforehand. Drawings to get the two tables made, are also sent beforehand. In addition to ensure the events as planned, sufficient Chemicals and dyes are also carried with the team. The NGO is encouraged to procure the items locally though payments are made by IDC. This ensures the ability of the NGO and MBC to carry the skills and techniques acquired at the workshop afterwards.

In spite of thorough planning and pre-intimation, situations are not always as expected.

A flexible approach is taken to accommodate the local shortcomings. Each workshop is also seen as a learning situation by IDC team.

STRIPS ESTIMATION FOR PRODUCTS (for 25 Nos.)

1 COIL TRAY

W=10mm T=1mm L=10 to 11 feet 25X25 = 625 strips

2 COIL BOWL

W=10mm T=1mm L=10 to 11 feet 30X25 = 750 strips

3 COIL TEA COASTER

W=7mm T=0.5mm L=10 to 11 feet 5X25= 125 strips

4 WASTE PAPER BASKET

W=15mm T=2mm L=10 to 11 feet 5X25 =125 strips

T= 2mm L= 11 feet round strips 8X 25 = 200 strips

Processed Cane strips - 2 to 3 kgs (if possible)

STRIP ESTIMATION FOR ALL PRODUCTS

LENGTH FOR ALL STRIPS=11 FEET

WIDTH	THICKNESS	QUANTITY
1. 5mm	0.5mm	100
2. 7mm	0.5mm	150
3. 10mm	0.5mm	2500
4. 10mm	1mm	2000
5. 5mm	1mm	100
6. 15mm	2mm	250
7. 25mm	2mm	50

TOTAL 5150



MATERIAL ESTIMATION

FULL BAMBOO	15 in number 10-11 feet long (for making strips)
DYEING:	
Spatula	2 in number (serving spoon)
Stove	(3 or 5 liter capacity) 2 in number
Balance with weight box	(50 gm upto 1 kg)
ALUMINIUM VESSELS :	15 liters capacity 2 in number 2liter capacity 1 in number
FEVICOL	½ kg 6 in number or 1 kg – 3 nos. 50 gms small 1 in number
TOUCH WOOD CLEAR(MAT)	1 Litre tin
COTTON DUSTERS / old cloth	10 in number
PLASTIC BUCKET	1 in number
PLASTIC BOTTLE	1 litre capacity 1 number(used mineral water bottle)
PLASTIC BOWL	3 in number (for mixing (fevicol + saw dust)
PAINTING BRUSH	3 in number 1inch soft
FEVIQUICK	12 in number
THINNER	2 litres
ROPE (Jute – 10mm)	1 kg
SAND PAPER(different grades)	Dozen each
KATHA	1 kg.
POTASSIUM DICHROMATE	1 kg.
COPER SULPHATE	500 gms



The team who conducted the workshop

Prof.A.G.Rao
Shri Niranjan Rudrapal
Shrimati Gangamma Gowda
Krishna Suthar
Latha

Prof.Rao has wide experience and international exposure in Design and Bamboo craft.

Rudrapal is a skilled craftsman from Tripura working in bambU studio for the last three years.

Gangamma is an expert craftperson from Mumbai, belonging to the craft community in Karnataka.

Latha is a craftperson from Mumbai, belonging to the craft community in Karnataka. She is working with a self help group CHAITANYA.

Krishna is a skilled carpenter and has an expertise in making moulds. He also is trained in Bambu Studio to be a trainer.

Other members at Bambu Studio who are involved in planning and making preparations for the workshop.

Poornima shenoy Designer
Sanjeev Moghe Designer
A.P.Jhon PA to Prof A G Rao



7-day interactive workshop at Jarmundi (Jarkhand)
from 22nd July to 28th July 04
Bamboo for Development

Day-1: 22nd July, 04

9 to 9.30 am	Registration
9.30 to 10 am	Inauguration
10 to 11 am	New Scope for Bamboo Craft
	Introduction to workshop AGR
11 to 1 pm	Introduction to Tool Kits – Video
	Bamboo and Cane Tools, Demo
	NR
1 to 2 pm	Lunch Break
2 to 3 .30 pm (Strip preparation)	Practice session NR, Gma, KS
3.30 to 4.30 pm	Treatment with Borax + Boric acid Gma, NR
4.30 to 5 pm	Review- AGR

Day-2: 23rd July, 04

9 to 10 am	Treatment for fungus + insects + Production Planning -AGR
10 to 12	Dyeing with Katha + Tea
	Gma, NR
12 to 1 pm	Group formation A, B, C
1 to 2 pm	Lunch Break
2 to 4.30 pm	Combination – 1 Gma, NR, KS
4.30 to 5 pm	Review - AGR



Day-3:	24 th July, 04
9 to 10 am	Moulds, Jigs, Fixtures Templates, Detailing for Production, Costing, Cost reductions. AGR
10 to 1 pm	Combination-1
1 to 2 pm	Lunch Break
2 to 4 .30 pm	Combination-1 Gma, NR, KS
4.30 to 5 pm	Review-AGR
Day-4:	25 th july, 04
9 to 10 am	Measurements, Scaling,Drawings AGR
10 to 1 pm	Combination-2 Gma, NR, K.S.+AGR
1 to 2 pm	Lunch Break
2 to 4.30 pm	Combination-2 Gma, NR, K.S.+AGR
4.30 to 5 pm	Review AGR
Day-5	26 th July, 04
9 to 10 am	Tool sharpening, Machine Maintenance -AGR, KS, NR
10 to 1 pm	Dyeing with Haldi-Gma, NR Combination -2, Finishing work
1 to 2 pm	Lunch Break
2 to 4 .30 pm	Combination-3,All Team
4.30 to 5 pm	Review-AGR
Day-6:	27 th July, 04
9 to 10 am	Finishing Stains, Lacquering Smoke finish, Packing & Transportation
10 to 1 pm	Combination-3 Gma, NR, KS
1 to 2 pm	Lunch Break
2 to 4.30 pm	Combination-3 Gma, NR, KS
4.30 to 5 pm	Review -AGR



Day-7: 28th July, 04

9 to 1 pm	Review, Feed Back	All Team
1 to 2 pm	Lunch Break	
2 to 5 pm	Finishing of all products in groups	

	A	B	C
Combination-1	Woven products	Coil Technique Products	CoilTechnique products
Combination-2	Coil Technique Products	Choice of Group	Choice of Group
Combination-3	Choice of Group	Choice of Group	Choice of Group

List Of Participants

Group-A:

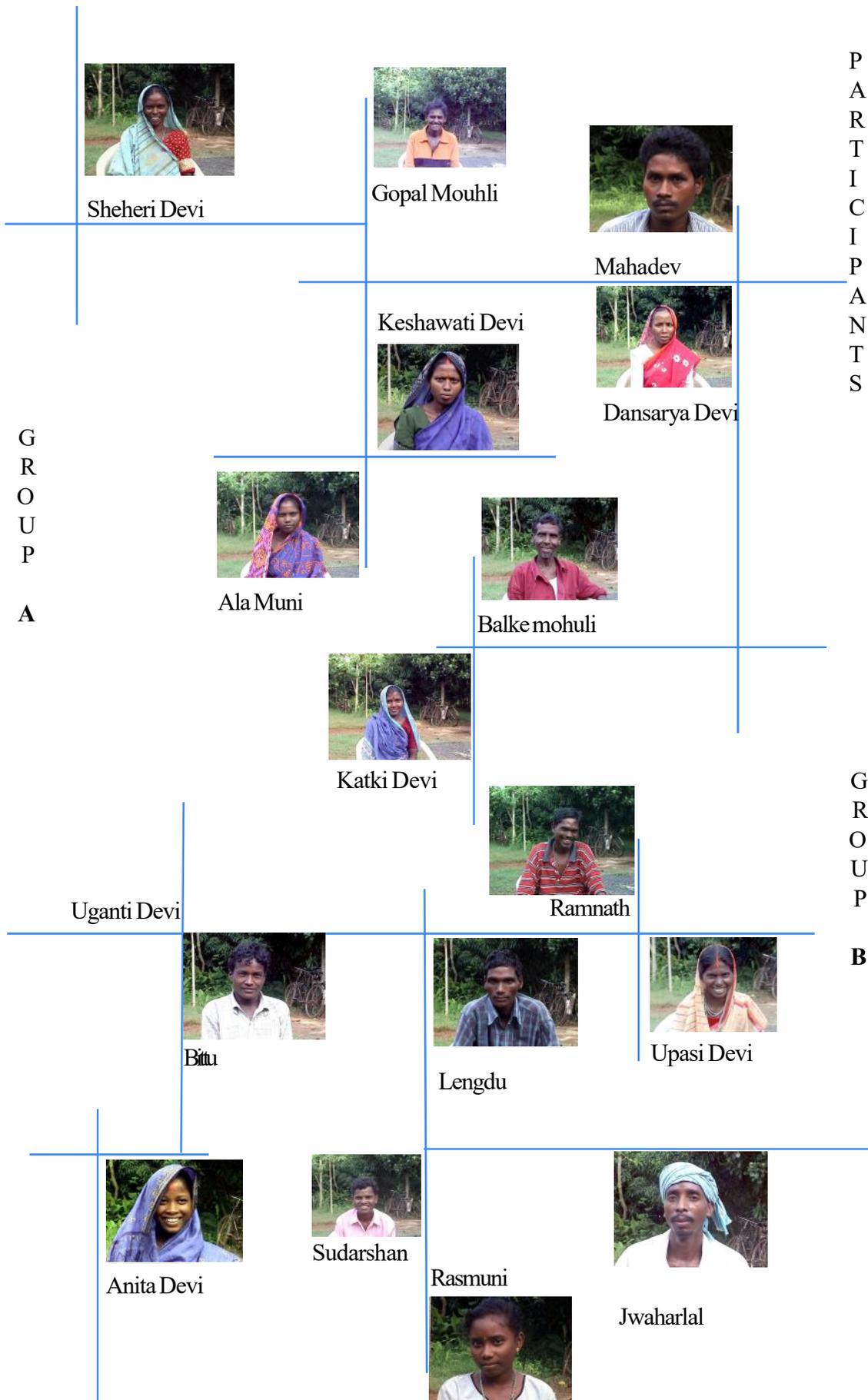
1. **Ms. Shari Devi (Leader)**
2. **Mr. Gopal Mohali**
3. **Mr. Mahadev Mohali**
4. **Ms. Keshvati Devi**
5. **Ms. Dansarya Devi**
6. **Ms. Ala Muni**
7. **Ms. Katki Devi**
8. **Mr. Balke Mohali**

Group-B:

9. **Mr. Ramnath (Leader)**
10. **Mr. Bittu**
11. **Ms. Anita Devi**
12. **Ms. Upasi Devi**
13. **Ms. Uganti Devi**
14. **Mr. Langdu**
15. **Mr. Sudarshan**
16. **Ms. Rasmuni**
17. **Mr. Jawaharlal**

Group-C:

18. **Ms. Ratni Devi**
 19. **Mr. Jagdish Mohali**
 20. **Mr. Huro Mohali**
 21. **Mr. Rama Mohali**
 22. **Ms. Shanti Devi**
 23. **Ms. Buliya Devi**
 24. **Ms. Phagni Devi**
 25. **Ms. Phulia Devi**
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Phulia Devi



Ratni Devi

Hiro Mouhli



Bulia Devi



Shanti Devi



Jagdish Mouhli

Phagni Devi



Rama Mouhli



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All the participants stayed on Campus which gave opportunity for the participants to pay full attention to the tasks at the workshop. One of the women participants after three days said that she is feeling so relaxed as she forgot all her daily problems like getting grain, vegetables, firewood , kerosene etc,. She was indeed enjoying the work and learning at the workshop.

Organising group at ADITHI made excellent arrangements for preparing and serving food for all the participants and our team everyday. Ms.Viji Srinivasan used to instruct the cook everyday with details and demonstrations making the event a memorable experience.





Starting of the workshop

Our team had reached a day before the workshop. 'Ropa' bamboo was bought.

The materials available at Jarmundi, like 'Fevicol' small vessels were purchased. A trip to Dhumka was made by Rudrapal and Congress (from ADITHI) to buy big aluminum vessels, Alum and other items not available at Jarmundi.

Inagural session started little late as some craft persons could not reach in time due to some confusion in locating the ADITHI campus. Mrs Viji Srinivasan introduced our group and gave the bags containing Mini Tool Kit and the course material to each candidate. Prof A G Rao explained what would happen in the workshop. Tool kit video was shown on the lap top. The group got intensely engaged as they had not seen a computer presentation before. Some of the tools shown in the tool kit were new to them.

Video clippings of small machines were also shown.





Tools and Machines, Treatment and colouring

Demonstration and practice on the tools took place after lunch. Three groups were made for group working. On the second day a session was held to explain the proceedings for treatment and natural dye colouring. Later the strips were sized on the width sizer and the new tools like IDC gauge, Splitting knife as well as machines like width sizer were used in the preparation of the strips. Borax, Boric acid treatment was demonstrated by Gangamma and Rudrapal with participation from the group. The precautions like keeping Borax Boric acid away from children were explained and translated into their local dialect. Most of the craft persons were illiterate. Pictures in the colour manual and tool manual were helpful for them to understand the process. Dyeing with Katha was also done after the treatment as the strips were required for making the coasters.





Working in Groups

Two groups started off with coil technique with Rudrapal and Krishna as instructors. The third group took up weaving of multipurpose basket with Gangamma as instructor. Latha assisted Gangamma .





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Dr.Misra and Dineshji seeing the workshop progress



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In **combination -2**, Hair clip was introduced as it caught the imagination of craft persons. Profit margin as well as marketability in the local market is high for the hair clips. Latha who accompanied the group had been training others in making hair clips in Mumbai. She assisted Gangamma in getting the groups trained. Some of the participants felt they “cannot learn” the weaving when they were not successful in the initial stage. However they were persuaded to learn by Mrs Viji Srinivasan and Prof A G Rao during the interactive sessions.



Sanjay examining the tea coasters



Local Expression



Story of Bamboo work expressed by Khatwa work



A special design for tea coaster stand was developed using the local stitching skills. Applique work was successfully used to make these tea coasters later.



When products from tribal areas are reaching cities and other countries 'tribal expressions' are highly valued. Dr Skye Morrison working with ADITHI has been encouraging such local expressions in 'applique' work which sells at good rates. The villagers have been earning 30 paise per square inch. One sheet of 6'X3' has been fetching about Rs 600 making the village rich.

Unfortunately in bamboo craft such expressions have been lacking except for the colouring done for 'Chat puja'.

Efforts were made to find the locally available beads and coloured threads. As a strategy cane binding was replaced with colour threads, to give exclusiveness. A 'fair' ('Jatra') was going on near the hotel where we were staying. Every morning we were walking through the fair. Several shops were selling 'Malas' (necklace) with beads, but when we looked for glass beads, we found that all transparent beads being used were made of acrylic (plastic) After thorough search we could get wooden beads. These were used on the multipurpose basket.

Craft persons were also encouraged to use random weave patterns of their liking instead of limiting to uniform Geometric patterns which were introduced initially. Mrs Viji Srinivasan's participation and presence during the workshop helped in evolving these local expressions.

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Realities at ground level

As the workshop went through the third day, a review was taken of the workshop as it was seen that the speed of output was slow. Craft persons were staying in the campus and started working from early morning i.e. 7am or so. The workshop used to commence after 9 'o' clock after the breakfast. Some of the people were going out in between.



A serious meeting was called with the whole group. Prof Rao, Mrs Viji Srinivasan and Dinesh (who knows the local dialect) and Sanjay Chowdhary were present. The participants were told by Prof A G Rao that the progress was not up to the mark compared to the experience IDC team had with other groups. He expressed his unhappiness at the lack of urgency and seriousness. Mrs Viji Srinivasan asked if they had any problems. Mr Dinesh translated these concerns in their local dialect asking them to be frank in the usefulness of the whole workshop. Slowly people opened up. They said they will not be able to get chemicals for treatment and dyeing and they will not be able to sell the new designs in the local market for a good price.



Then Mrs Viji Srinivasan said that ADITHI will provide the chemicals and place to start with and also place orders for the items. She said a shed will be made available on ADITHI's campus at Jarmundi where crafts person can come out and work. After having discussions among themselves craftpersons said they like to use the place at ADITHI (MBC) for sizing, treatment and finishing and weaving work. They would like to work in the village.

Mrs Viji Srinivasan requested Prof A G Rao to work out the labour cost for each of the items being trained which ADITHI will pay to craftpersons based on their ability to make and competitive rates like what persons get at Mumbai. Following rates were worked out.



Costs of baskets	fixed	material,	Labour	
Multipurpose basket big	8.50		50	60
Multipurpose basket medium	4		30	35
Multipurpose basket small	2.50		30	22.50
Clip+ Stick	(0.20 +1.00)		(10+1.50)	
	1.20		11.50	13.00

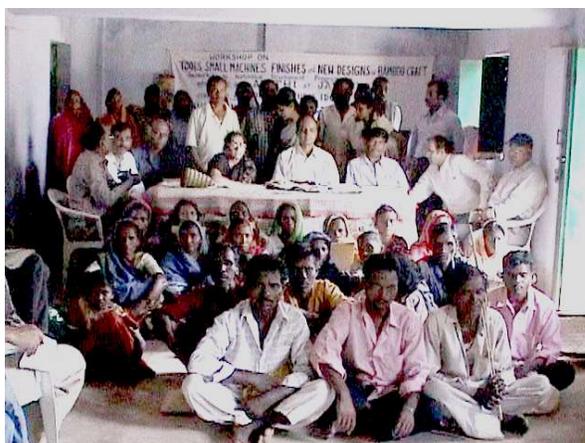


Concluding Session

On 28th, a day before the workshop ended DDC (Deputy District Commissioner) attended the workshop. In the formal function all the products

finished till that time were exhibited along with applique work done through ADITHI which were to be taken to Toronto by two applique workers from the area.

Certificates to each craft person were given. DDC promised the craftpersons to consider their request for a workshed at Raja Simaria where where the MBC will eventually move from ADITHI campus. DDC saw the tool kits, Small Machines moulds and mini tool kits developed by IDC and given to MBC and appreciated the efforts.





On Way To Toronto



Mrs Viji Srinivasn had sent an invitation to the governor, Shri Vedh Marwa to visit ADITHI campus at Jarmundi to celebrate the participation of the two applique workers in Toronto exhibition as well as to see the results of Bamboo Craft workshop. the governor agreed to come a day after the workshop. Several adjustments got made due to this. Prof A G Rao had to postpone his trip to Ranchi. DC of the area visited ADITHI campus along with S P to see the road conditions etc.



The visit got wide publicity. There was a little uncertainty due to the rains which were on and off. Number of press reporters visited. But at the last minute the governor had to cancel his visit due to heavy rains. Never the less the workshop got wide Publicity.



We came to know that the Governor visited jarmundi at a later date and got acquainted with the bamboo work under the KVIC Mini bamboo Cluster Project





List of things given to Adithi after the Workshop.

MOULDS

1 Tea Coaster	05 Nos.
2. Waste paper Basket	1 set
3. Round Tray	1 set.
4. Bowls Big	1 set.
5. Bowls Small	1 set.
6. Multi Purpose Basket	5 sets
7. Small Basket	1 set.
8. Plate Mould	1 Nos.
9. Radius template tray	1 No.
10. Gauge for Tea coasters	5 nos.

TOOL KIT

11. Mini Tool Kit	27 Nos.
12. Tool Kit	02 Bags.

SMALL MACHINES

13. Splitting Machine	02 Nos.
14. Width Sizer	02 Nos.
15. Thickness Sizer	02 Nos.
16. Hand Sander	02 Nos.
17. Splitter	01 No.

CENTRE PIECE

18. Wooden centre piece	50 nos.
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ADHESIVES

19. Feviquik	6 Nos
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CHEMICALS

20. Katha	1 Kg.
21. Potassium di Chromate	1 Kg.
22. Copper Sulphate	1 Kg.
23. Borax	10 Kgs.
24. Boric acid	10 Kgs.
25. Majista Powder	250 gms.
26. Alam	100 gms.
27. Potassium Hydrogen Tartrate	50 gms.
28. Tartaric acid	150 gms (1pack)

MISCELLANEOUS

29. Photo cutter	1 no.
30. Sand paper set	2 nos.
31. Grinder	1 no.
32. Saw dust	1 kg.



What went further

During the workshop limited number of pieces were produced.

A request was made by ADITHI for the services of Mr. Rudrapal for another week so that production of new designs introduced will get stabilised and the production target set for Toronto exhibition could be met with. ADITHI volunteered to pay the additional costs for his stay. It was agreed as a special case as no such provision existed in the format of the project. It added to our experience.

As per Rudrapal's report: 22 People came for 3 days to ADITHI office. They made strips in the night at home and brought it the next morning. Rudrapal demonstrated treatments and dyeing with katha. Haldi and tea dyeing were done once again on their request. after that they took the treated strips to their homes. They made the products in their homes. Rudrapal visited their homes in the village to check the progress. The participants lost lot of time due to poor transport facility from the village to reach ADITHI office in jarmndi. They used to start at 6 am in the morning to reach ADITHI Office at 10 am. Men cycled and women walked the distnce to reach the office. Moving the MBC to the village would have a great advantage. At the end of the week 150 Multipurpose baskets (50 sets), 300 hair clips were made. They were making local products in parallel. They used the colouring technique taught in the workshop to make these local products.

We came to know that all the hair clips and baskets were taken by Mrs Viji Srinivasan and the 2 craft persons to Toronto(Canada) and Japan. All were sold out. There was further demand. The items were also appreciated in Japan where high standards are set for its bamboo craft products. Mrs Viji Srinivasan got in touch with banks at Jarmundi and placed further orders on craft group for the new items. Mr P.K.Das, KVIC officer at Dhumka also promised to monitor the MBC and extend ADITHI all the help required.



Social Conditions.

The Maholi community suffers with some of common social evils. Consumption of alcoholic drinks is common and some men become Alcoholic. Dasarath, husband of one of the participants was an Alcoholic. He was not part of the workshop but he landed up on the third day fully drunk, embarrassing his wife and son who were attending the workshop. He was not in his senses. Mrs Viji Srinivasan tactfully took him out and handed him over to somebody. On the Market day when we visited the place we found half of the shops were selling local alcoholic drinks. Both men and women in the community drink. Lack of other Social and Cultural occupations seem to bring 'drinking' into front stage in their life.

Jarmundi area also suffers with many evils. In the first trip, Prof Rao came across a woman who looked scared to death.

She was being pursued by the villagers for 'a kill' as she had been indentified in the village as a 'Witch'. She was being protected by the inmates at 'ADITHI' campus.

Local tribal law allows the witches to be killed by stoning.

The other evil of the place is that santhal tribal allows men to marry many times. With the result many men have left their first wives at age of 40 and married younger women. Later these women are thrown out of their houses by the husbands.

ADITHI has been taking care of such left out women. Many cases of this kind are in Court. Mrs Viji Srinivasan briefed the journalists about many such cases. ADITHI has been active in taking these cases to the court to get alimony from the husbands. Bonded labour is also prevalent in the area. And ADITHI has been active in getting many bonded labourers released after many battles in the Supreme Court. Dr Misra has been active in these incidents. During the workshop we witnessed one of the released bonded labourer registering for a degree course with IGNOU at Jarmundi campus.



Children are brought to the workshop due to lack of schooling facilities. Though at times it distracts the participants, children get inducted to learning the craft through play.





Visitors to ADITHI campus and visits around



Shri Prabhakar Jadhav

ADITHI campus becomes quite active whenever Ms. Viji Srinivasan comes there. Many visitors come from outside as it is involved in many developmental activities. Prof A G Rao could meet many of these visitors who were also keen to know about bamboo craft. Shri. Prabhakar Jadhav is a retired school teacher who visited ADITHI campus twice. He himself runs an NGO and was keen to know the developments in Bamboo.

Mr Parimal Kumar Singh an agricultural consultant visited during the workshop. He attended the sessions on bamboo treatment. He was quite keen to pursue research through Vikas Foundation, (Address: Kalibari, Civil line, P O Daburgram 814132 Dist Deoghar (Jharkhand) Tel 06342-231575) with whom he is engaged. Prof A G Rao advised him to develop a project report to study on bamboo insect treatment with natural insecticides like **Neem**. Neem is plenty in the area and if local bamboo could be treated with neem, borax, boric acid treatment could be replaced with an eco-friendly treatment.

IGNOU programme which runs at ADITHI campus is very popular and brings in many visitors to the campus everyday. They were all very curious to know about Bamboo as well.



Mr Gokul Mehra

During earlier trip Mr Gokul Mehra project officer ATMA (Agricultural Technology Management Agency) <gmehra1@rediffmail.com> visited the campus. (address Gokul Mehra Aerodrome Road Dumka 814101 tel 06434-223808, 225352) He had long discussions with Prof A G Rao about the bamboo workshop.

Prof. Rao also visited the development officer (Mr. T.P. Singh) at Dumka along with Ms Viji Srinivasan and Dr Skye Morrison. As the offices of the DDC and DO were closed on that day due to HOLI., Mr Singh had a meeting with the team at his Residence.



Mr.S.K.Das with DDC (left side)

KVIC officials at Dumka Mr S K Das was not only present in the concluding session but also visited thrice during the workshop spending long hours in knowing the workshop proceedings.

Prof A G Rao was acquainted with Mr S K Das during an earlier bamboo seminar at Bishunpur. Mr Das gave ADITHI officials several [brochures on KVIC schemes](#) which were displayed at IGNOU office.



Umbrellas with Bamboo Stick

One of the interesting findings in the weekly market was umbrella handles made of bamboo. Umbrella makers were selling umbrellas as well as parts of umbrella. This was a 'great find' as this is an earlier practice, vanishing with the introduction of steel stem for umbrellas. Full bamboo is bent to make the handle. Hollow of the bamboo is used to insert the wire projection which locks the umbrella when opened. On persistence enquiry it was told that these bamboo stems with handles are coming from Mizoram. *This type of bamboo is not grown or is available in Jharkhand.*

The umbrella seller agreed to come to ADITHI campus (which is nearby) and demonstrate making of the bamboo umbrella the next day morning as it was already dark. We were keen on video documentation of the process.

Unfortunately the person did not turn up the next day.





Press coverage

There Was Extensive Coverage On Bamboo Craft, as well as the bamboo Workshop by IIT-B in various Hindi and English Newspapers like Hindustan Times, Telegraph and IIT-B Campus News which featured 'On Way To Toronto' Exhibition and the KVIC- MBC Workshop.

Student News

Ms. Sreelekha K Singh, Ph D student, Deptt. of Chemistry, presented a paper on "Protein Folding and Protein-Solvent Interactions: Biophysical Approach" in 18th Symposium of the Protein Society: Protein Structure Function and Disease held at San Diego California, U.S.A., August 14 - 18, 2004.

Mr. Susanta Paikaray, Research Scholar, Deptt. of Earth Sciences, presented a paper entitled "Origin of the Pyriteferous Bijaigarh Shale in the Vindhyan basin and its Implications" in the poster session of the 32nd International Geological Congress held at Florence, Italy during 20th - 28th August. He was sponsored by IIT Bombay.

Mr. A. V. Bhaskara Rao, Research Scholar in Civil Engg, attended the 13th World Conference on Earthquake Engineering at Vancouver, Canada, held from August 1-6, 2004 and presented paper entitled, "Seismic Response of Adjacent Buildings Connected with Dampers".

Institute celebrates Independence Day

Independence Day was celebrated with great zest and enthusiasm this August 15 by the campusites. Director Prof. Ashok Misra unfurled the flag at

On Way To Toronto



A workshop on 'New designs, tools and Techniques' was held at Jarmundi, Jharkhand for craftpersons from Mohali community of RajaSymari village by the design team of IDC (Industrial Design Centre), IIT Bombay as a part of KVIC sponsored project 'Mini Bamboo Clusters'. The workshop was conducted from July 22 to July 28, 2004 under the expert guidance of Prof. A. G. Rao of IDC and Smt. Viji Srinivasan MD of ADITHI. The workshop was organized by ADITHI an NGO and backed by KVIC.

The participants were trained to make products using simple techniques

using machines and moulds. The crafts persons in this area in addition to bamboo work make appliqué work. The products made during the training imparted by IDC and their own products were exhibited and sold at Toronto, Canada.

Trainers for this workshop included Lata (from a self help group Chaitanya, Mumbai) and IDC Bamboo team: Niranjan Rudrapal (skilled craftsman), Sanjiv Moghe (Designer), Poornima Shenoy (Designer), Gangamma Gowd (Skilled craftsman), Krishna Sutar (Mould Maker and Carpenter) and Mr. John (Assistant).

Bamboo items of Dumka on way to Toronto

By Rajesh Kumar Pandey

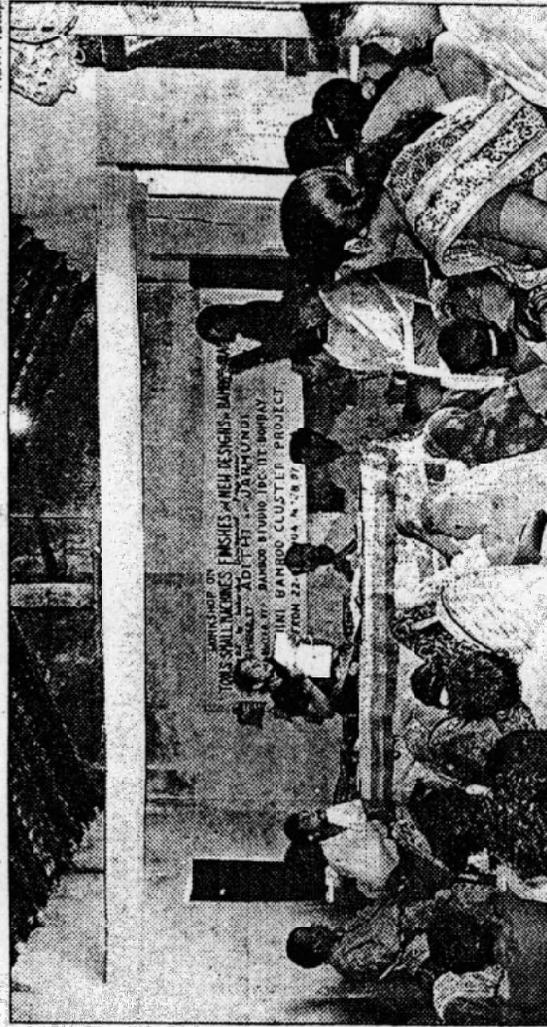
Dumka: The household items made out of bamboo in Dumka are on way to the Canadian capital Toronto.

The Mohuli community of Dumka in a workshop organised by KVIC (Khadi Village Industrial Commission) with the technical support of IIT, Mumbai were imparted extensive training in bamboo craft. With a view to popularising bamboo crafts in international market, local artisans were trained in latest coiling technology which will help to produce different household items.

House hold items as baskets, tea costers, hangers, hair clips etc. made by them will be displayed at an exhibition to be organised at the World Tribal Women Conference to be held in Toronto in August.

Prof A G Rao of IIT Mumbai, under who's guidance the workshop was organised said that there was great demand of bamboo items in national and international market. "Bamboo being eco-friendly and cost effective can easi-

Ravi Pratap



Tribal women participate in large numbers in a workshop on bamboo craft at Jammundi near Dumka on Wednesday.

ly replace plastics. Besides this, it can also provide opportunity to local artisans to earn much more than what they are now earning," added Prof Rao. Adithi, an NGO, which is also playing a major role in organising this workshop has assured to help in extend all necessary support.





रांची, पटना, दिल्ली और लखनऊ से प्रकाशित

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भागलपुर/पटना, बुधवार, 28 जुलाई, 2004 3

दुमका

बांस की कैंची विदेश भेजने की योजना

जरमुंडी (दुमका) (सं.मु.)।
इंडस्ट्रीयल डिजायन सेंटर,
आई.आई.टी. (मुंबई) के
पै.ए.जी.राव के निर्देशन में खादी
उद्योग के तत्वावधान में 'बम्बु
ब्राप्ट' की आधुनिक तकनीक की
जानकारी देने के लिए अदिधि कैम्पस
जरमुंडी में 22 जुलाई से 28 जुलाई
तक एक कार्यशाला का आयोजन
किया जा रहा है। इस
कार्यशाला में बांस से
विभिन्न आकर्षक एवं दैनिक
जीवनोपयोगी वस्तुओं को बनाने का
प्रशिक्षण मोहली जनजाति के राजा
सिमरिया पंचायत दयालपुर के लोगों
को दिया जा रहा है। प्रशिक्षण में
आधुनिक औजारों की जानकारी दिये
जाने के बाद उन्हें मुफ्त में औजारों
का सेट भी दिया जाएगा। इस
प्रशिक्षण से उनकी कार्य क्षमता बढ़ने
के अलावे जीवन स्तर में भी सुधार
आने की आशा है। इनकी बनायी
वस्तुओं को देश के विभिन्न शहरों
एवं विदेशों में बेचने की समुचित
व्यवस्था अदिति द्वारा की जायेगी।

अगस्त माह में कनाडा में आयोजित
विश्व आदिवासी महिला सम्मेलन में
भी इन वस्तुओं को प्रदर्शित किया
जायेगा। विदेशी संस्थाएं आदिवासियों
के उत्थान हेतु उनकी बनायी विभिन्न
कलात्मक वस्तुओं को अच्छे दामों में
खरीदती है। कार्यशाला में प्रशिक्षण
देने के लिए त्रिपुरा से रुद्रपाल एवं
मुंबई से जंगम, कृष्णा सुधार, लता
पहुंचे हैं। बांस एवं
इससे बनी विभिन्न
कलात्मक एवं उपयोगी वस्तुओं की
तकनीक मर रिसर्च एवं विकास करने
वाले आईआईटी के प्रो.राव ने बताया
कि बांस एक इको फ्रेंडली पौध है जो
सस्ता होने के साथ-साथ मात्र 3 वर्षों
में पूर्णरूप से विकसित हो जाता है।
इससे बनी वस्तुएं प्लास्टिक का स्थान
आसानी से ले सकती हैं। साथ ही
निचले तबके के जनजाति एवं अन्य
किसी भी व्यक्ति द्वारा इस आधुनिक
तकनीक का प्रयोग कर अच्छी
कमायी की जा सकती है। इन्हीं बातों
को ध्यान में रखकर इस तकनीक का
विकास किया गया है।



Mini
Bamboo
Cluster
project

Bambu Studio
IDC, IIT B
Mumbai