

Annexure II Interview Schedule

A) Social Condition:

I) Demographic details:

1. Name
2. Age
3. Gender
4. Date of Birth
5. Locality
6. Educational Qualification
7. Community
8. Address

II) Family Composition:

1. Type of family
2. Number of family members
3. Family Tree
4. Head of the family
5. Details of each family member
 - Name of each member
 - Age
 - Gender
 - Educational status

Sr. No.	Name	Relation	Educational Qualification	Completed/ Studying
1				

B) Economic Status:

I) Income and Expense:

1. No. of earning members of the family
2. Monthly income of the family
3. Do you have any other source of income than block making?

4. Expenses:

- Rent Payment
- Insurance(Car, health, life)
- Loans (student, car, home equity loans)
- Monthly expenses (Includes grocery, bills, children education)

II) Savings:

- Do you aware about different methods or schemes for saving? (PPF, PLI, FD...)
- How do you save money?
 - FD
 - PPF
 - PLI/LIC
- Do you have health insurance of your own and each family member?

III) Life style/ Standard of living:

- Type of House
- Area
- Assets owned:
 - Vehicle (Bicycle, Motorcycle, Car)
 - Television
 - Refrigerator
 - Washing Machine

C) Craft Skills:

I) Learning Stage:

- Since when you started learning this craft?
- From whom you learned this craft?
- What inspired you to learn this craft?
- How long it has taken to learn this craft?
- Have you given stipend while learning?
- Process of learning
- Share your experience or some memories of learning stage.

II) Work Experience:

- When you have started practicing the craft?
- Have you worked under someone?
- Name them

- How much you paid?
- Since how long you worked with him?
- How much is your experience?
- Your skills in block making: (means what kind of work you can do or your expertise)
- Share memorable experiences

III) Workshop:

- When you have started your own workshop or started working independently?
- Is your work shop in house or some other place?
- Is it on rent or is your own?
- How much is the rent? (If Rented)
- When you have started this workshop? (for rent)
- Type of workshop: Earlier and Present
- Location
- Facilities
- Area/ work space
- Capacity
- Working hours
- Do you have any workers? (Earlier or Present)
- How many workers are working?
- From where they are coming?
- How much wages given to the worker?
- Is there any holiday or week off?
-

IV) Training Imparted:

- Have you imparted training to any craftsmen?
- Give details of it like: how many, period of training
- Have you get invitation from any college/institute/ Gov. & Non Gov. Organization for imparting training to their students?
- If yes then Name them and give the time duration
- What kind of treatment given to you when you go to such institutes? What you receive after completion of training and workshop?
- Share your experience of workshop/ training
- Is there any benefit you get after undertaking such workshops: (Increase recognition, contacts, business)
- How many students have come to your workplace for learning the craft? From where? Duration.
- Do you charge for giving training?

D) Details of Craft

I) Raw material:

- **Wood**
- Type of Wood
- Characteristic of Wood
- Quality of wood(earlier and present)
- From where do you source the wood? (Earlier and Present)
- How you choose the appropriate wood?
- Cost of wood (Earlier and Present)
- What is your requirement of wood?
- How frequently do you purchase?
- Availability of wood (do you need to take prior information?)
- How is the payment done for wood?
- How much wood you cannot use because of faults?
- What kind of faults found in wood?
- Where do you use the faulty wood?

II) Tools and equipments

- What type of tools used?
- Which material are they made up of?
- Do you make tools by your own?
- Any new/ electronic tools do you used?
- If yes than which kind of and for what purpose?
- What are the costs of those tools?
- What advantage you get after using these tools?

III) Process of Block making

- Sequential process with pictures and video

IV) Designs

- Do you make the design according to the buyer?
- How many designs you have made till date?
- What is a source of inspiration for creating design?
- Which kind of designs you can make?
- Do you modify the designs? What type of modification is required?
- How do you keep record of designs?
- Do you have knowledge about principles of designs?
- Would you like to undergo training for imbibing design skills?
- Is there any special tool for making design? Which and how to use it?

- What things need to be kept in mind while making design?
- When you create new designs?

E) Craft as business:

I) Accounts:

- How do you manage your accounts?
- How do you keep daily notes of work done by each *karigar*?
- How do you keep records of all your orders? (completed and ongoing and to be complete)
- Do you audit the account once in a year? How?
- How do you complete your target of orders?

II) Maintaining records:

- How do you keep records of payment given to your *karigars*, payment received from buyer, bill or receipt of parcel you send to buyers?
- Do you give bills to your customers after purchase?
- Do you know about GST? Is it affecting your business?
- How does the maintained record help you?
- Do you know the different ways of keeping records? If yes then name them
- Would you like to learn and accept new methods of maintaining records?
- How the payment is done from the buyer's side? (After receiving the blocks or in advance)?
- The method of payment (cash/ direct credited in account/?)

III) Traders/ Buyers:

- List of your buyers (Name and address)
- Frequent buyer
- Since how many years they are giving orders to you?
- Do you contact the buyers from yourself or they directly come to you?
- Do you have any foreign buyer?
- How many orders you complete in a year? Or how many blocks you made in a year? (estimated)
- Is there any middle agency between you and your buyers? Do they ask for commission?
- Which is the peak season for block making? Why?
-

V) Details of Visitors:

- How many visitors come to your place?
- How do you treat them?
- How do you demonstrate the craft?
- Do you take charge for demonstration?
- Do they buy blocks from you? Which type of blocks?
- How many buyers from abroad came to visit your place? From Where?
- How did they know about you? Who brought them?
- Talk about students come from different places
- Do you have maintained visitor's book? How many visitors have visited?(Average)
- Other than Visitor's book how you keep record of Visitors?
- Do you get any advantage because of visitors coming at your workshop?
- Is there any increase in the number of visitors in last ten years? Why?
- Categories of different visitors: students, designers, Professors, Govt./Non Gov Organizations, People from abroad
- Share some experiences with visitors.

VI) Market Trend:

- Do you aware about the latest market trend? How it helps you?
- What are the rates for particular blocks in market?
- Is your rate different from the market? High or Economical? Why?
- What things do you keep in mind to be steady in this competitive market?
- What do you feel "the market trend has affected the craft in last 10-20 years"? How?

VII) Marketing:

- How do you source market?
- Do you have knowledge of different method of marketing? Or a good practice of marketing?
- Do you need to advertise? If yes/No. Why?
- Do you use smart phone applications for communicating with customers? Which are they?

VIII) Quality:

- Factors affecting the quality of block

- How do you maintain a good quality?
- Do you have to compromise sometime for quality of raw material? Why?
- Talk about a good quality of block
- How do you check the quality or how do you inspect a block for its quality?

IX) Costing:

- How do you decide the final cost of the block?
- Which things need to be kept in mind while costing?
- What is your profit margin?
- How do you calculate production cost of block?
- Do the buyers negotiate for price?
- Which factors affected the costing of a block?
- The miscellaneous cost
- How much profit you gain on each block after calculating all expenditure?

F) Changes that taken place :

- Talk about the major changes taken place in last decade in terms of raw material, tools, process, designs, market, cost, quality...
- What do you feel by these changes? (Positive and Negative)

G) Problems faced :

- Talk about the different problems faced by all block makers
- What help do you need?

H) Awareness on Different Govt. Schemes:

- Do you aware about the different scheme of Govt. for craft and craftsmen? Which?
- Do they actually help?
- What do you expect from the Government?

I) Development of the Craft:

- How the craft is developed in last decade?
- When the craft was on its peak?
- Talk about the phase when the craft was surviving
- Which factors affected the decline?
- How it is survived?
- Did you get any help and support during the tough period? How? By whom? Which kind of help?

- Share experience of hard time

J) Present status of Craft

- Do you get orders regularly?
- Whether your traders/ customers are same or you work with some other?
- Are you able to complete the order? Whether you give job work to others for your orders?
- What problems you faced and what are the advantages you get (From Govt.)?
- What is present status of this craft according to you?

K) Your contribution to the craft

Through exhibition, workshop, visitors...

L) Promotion:

- Would you like to promote the craft? Why?
- Would you like undergo different training programme for better development?
- Would you like to learn new technologies to upgrade the craft in terms of marketing, quality, time management...?
- Would like to train new people in this craft?

M) Give your valuable suggestion based on your experiences:

- How is your relationship with other block makers?
- Are you helping each other when needed?

N) Discuss the future of block making craft from your angle

Why you can say this?

Appendix II

Interview schedule: Printer/ Trader

Place:

A. Demographic:

Name:

Age:

Gender:

Caste:

Religion:

Community:

B. Craft details:

1. Name of the print:
2. Since when did you have been associated with the craft? Or Share your Work experience in hand block printing:
3. From whom did you learn this craft? If it is passed through generation then specify the hierarchy
4. Who are your clients?

I) Wood blocks:

1. From where do you purchase the blocks for printing?
2. Name the wood block makers from you make purchase.
3. Since how long you are purchasing blocks from Pethapur?
4. Why do you purchase the woodblocks from Pethapur?
5. What qualities a block should have for better printing results?
6. What changes have you seen in wood blocks since you have associated till present time?

Block size:

Type of Design:

Price:

Delivery of blocks:

Packaging:

Shelf life:

Quality:

II) Placing an order:

1. How do you place the order for block making? Earlier and present with reason
2. How much order do you place in at a time? Earlier and present
3. Did you get your order complete on time? Give reasons
4. How frequently do you purchase the block?
5. From whom do you purchase the blocks? Specify the period or span.
6. Do you purchase block from only one craftsman/ particular workshop? Why?
7. Changes made at present for the same and the time from when it started changing.
8. Why do you purchase wood block from Pethapur?
9. What are the peculiar features of wood blocks of Pethapur?
10. Do you purchase block only from Pethapur? If no then please name the other centre and craftsmen. Please give reason.
11. How frequently do you visit the Pethapur and meet the craftsmen personally?

III) Design:

1. Name the different types of designs used
2. Do you give the block makers a particular design to make a block or you select from block maker's design records?
3. How do you communicate with craftsmen regards to design?
 - Mode of communication (letters/post, digital mode such as Email, Whats App...) Since when?
 - Are you satisfied with communicating through digital platform? Why and how it is convenient?
 - What type of source do you send as design reference? Such as copy of design on paper with instruction, picture of the design paper, picture of fabric swatch, etc.
4. Changes taken place in terms of design since your association:
 - Design repeat:
 - No. of Colours used:
5. According to you what has led the changes in design? Why?
6. Do you get suggestion from the craftsmen for modification in design?

IV) Tool and Process:

1. Are you aware of block making procedure?
2. Give your view on changes made in block making process:
 - Are you aware about the block makers have started using electric tools at some stages of block making? Since when they have started using?

- What is your view on it?
 - Is the use of such tools affected the printing quality or shelf life of a block?
3. According to you what major changes taken place in last two decades?
(In terms of carving, finishing, handle making, packaging)

v) State the period of crisis for hand block printing and its causes? How it raised again?

vi) At present the craft has taken over by the *Prajapatis*, only one workshop of *Gajjars* is there. How and why this happened? Specify time span if you are aware?

Give your opinion on following:

- Factors that cause the gradual decrease in number of craftsmen engaged to the craft.
- Up gradation of craftsmen through technology
- Challenges/ Difficulties faced by the block makers

8) Do you see the difference in quality of woodblocks? What could be the reasons?

9) Does it affect the printing quality? How?

Appendix III

To,

Respected Sir/ Madam,

I am Vandita Bhatt, Ph.D. scholar from the Department of Clothing and Textiles, Faculty of Family and Community Sciences, The Maharaja Sayajirao University of Baroda, Vadodara. The title of the research is **“Wood Block Making Craft of Pethapur: Evolution and Promotion”**. The attached questionnaire has been prepared for the fulfillment of one of the objective of the study i.e. to analyze the working pattern of the Craftsmen of Pethapur and their workplace using/ with ergonomic approach.

You are selected as one of the expert for validation of my research tool on above mention subject. Kindly validate the tool in reference to following points.

1. Language
2. Content
3. Questions in line with the objective

Please spare your precious time to evaluate the questionnaire and give valuable suggestions. It would be highly appreciated and incorporated.

Thanking you,

Yours Sincerely,

Vandita Bhatt
(PhD Scholar)

Dr. Reena Bhatia
(Guide)

**Title: Ergonomic Risk Factors faced by the Wood Block Makers of Pethapur,
Gujarat -India: An Analysis**

No.	Section I Demographic and personal information			
	Questions	Category	No. of respondents	Pcentage %
1	Name			
2	Age			
3	Education	Illiterate		
		Primary		
		Secondary		
		Graduate		
4	Marital status	Married		
		Unmarried		
5	Craft experience			
6	Hand dominance	Right		
		Left		
7	Health habits	Drinking, smoking, tobacco if any		
	Section II Job tasks and other information			
No.	Questions	Category	No. of respondents	Percentage %
1	Working hours	8-10		
		10-12		
2	Breaking time	1 time		
		2 time		
		> 2 time		
3	Resting time	30 minutes		
		1 hour		
4	Working pattern	Alone		
		With other		
5	Do you carry your work monthly at same workplace?	Yes		
		No		
6	Does your work rotate between you and your colleagues?	Yes		
		No		
7	Does your work repetitive task many times?	Yes		
		No		
8	Does your workplace having sufficient space for easy movement?	Yes		
		No		

9	Does your workspace have enough sunlight and air circulation/ proper ventilation?	Yes		
		No		
10	Do you use any mechanized tools to reduce physical activity/ reduce load?	Yes		
		No		
11	Is there any environment or other factors that affects your work production/ create disturbance?	Temperature		
		Humidity		
		Noise		
		Other than this please specify		
12	Do you use any back rest for supporting upper back?			
13	Do you use cushioning while working sitting on floor?			
14	Job tasks			
		a. Finishing of wood piece		
		b. Transferring design on to wood piece		
		c. Carving		
		d. Finishing of carved wooden block		

Section III Body part experiencing discomfort while working (* Body part discomfort Scale, developed by Corlett, E. N & Bishop, R.P (1976))

	Body parts	Discomforts						
		ND	LD	MD	SD	DD	UBD	
1	Headache							
2	Neck pain							
3	Shoulder							
4	Upper arm, elbow							
5	Fore arm							
6	Lower back							
7	Upper leg							
8	Lower leg							
9	Knee							
10	Vision/ Eyesight							
11	Breathing problem while using trimmers /wood dust							

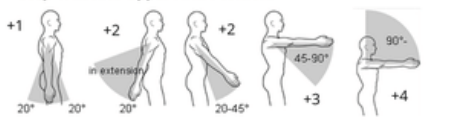
*ND- no discomfort, LD- light discomfort, MD- Moderate discomfort, SD- strong discomfort, DD- Disrupting discomfort, UBD- Unbearable discomfort

Section IV Assessment of Postures (* Using Rapid Upper Limb Assessment (RULA))

	A) Arm and wrist analysis						
	B) Neck, trunk and leg analysis						

A. Arm and Wrist Analysis

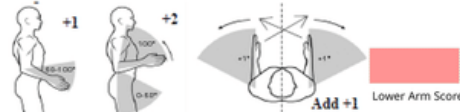
Step 1: Locate Upper Arm Position:



Step 1a: Adjust...
If shoulder is raised: +1
If upper arm is abducted: +1
If arm is supported or person is leaning: -1

Upper Arm Score

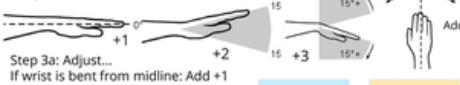
Step 2: Locate Lower Arm Position:



Step 2a: Adjust...
If either arm is working across midline or out to side of body: Add +1

Lower Arm Score

Step 3: Locate Wrist Position:



Step 3a: Adjust...
If wrist is bent from midline: Add +1

Wrist Twist Score

Wrist Score

Step 4: Wrist Twist:

If wrist is twisted in mid-range: +1
If wrist is at or near end of range: +2

Step 5: Look-up Posture Score in Table A:

Using values from steps 1-4 above, locate score in Table A

Step 6: Add Muscle Use Score

If posture mainly static (i.e. held >10 minutes), Or if action repeated occurs 4X per minute: +1

Step 7: Add Force/Load Score

If load < 4.4 lbs. (intermittent): +0
If load 4.4 to 22 lbs. (intermittent): +1
If load 4.4 to 22 lbs. (static or repeated): +2
If more than 22 lbs. or repeated or shocks: +3

Step 8: Find Row in Table C

Add values from steps 5-7 to obtain Wrist and Arm Score. Find row in Table C.

Wrist & Arm Score

Scores

Table A		Wrist Score			
Upper Arm	Lower Arm	Wrist Twist	Wrist Twist	Wrist Twist	Wrist Twist
1	1	1	2	2	3
1	2	2	2	2	3
1	3	2	3	3	3
1	4	2	3	3	3
2	1	3	3	3	3
2	2	3	3	3	3
2	3	3	3	3	3
2	4	3	3	3	3
3	1	4	4	4	4
3	2	4	4	4	4
3	3	4	4	4	4
3	4	4	4	4	4
4	1	5	5	5	5
4	2	5	5	5	5
4	3	5	5	5	5
4	4	5	5	5	5
5	1	6	6	6	6
5	2	6	6	6	6
5	3	6	6	6	6
5	4	6	6	6	6
6	1	7	7	7	7
6	2	7	7	7	7
6	3	7	7	7	7
6	4	7	7	7	7

Table C		Neck, Trunk, Leg Score					
Wrist / Arm Score	Neck	Trunk	Leg	Score	Score	Score	Score
1	1	2	3	4	5	6	7+
2	1	2	3	4	5	6	7+
3	1	2	3	4	5	6	7+
4	1	2	3	4	5	6	7+
5	1	2	3	4	5	6	7+
6	1	2	3	4	5	6	7+
7	1	2	3	4	5	6	7+
8+	1	2	3	4	5	6	7+

Scoring: (final score from Table C)
1-2 = acceptable posture
3-4 = further investigation, change may be needed
5-6 = further investigation, change soon
7 = investigate and implement change

RULA Score

B. Neck, Trunk and Leg Analysis

Step 9: Locate Neck Position:



Step 9a: Adjust...
If neck is twisted: +1
If neck is side bending: +1

Neck Score

Step 10: Locate Trunk Position:



Step 10a: Adjust...
If trunk is twisted: +1
If trunk is side bending: +1

Trunk Score

Step 11: Legs:

If legs and feet are supported: +1
If not: +2

Leg Score

Table B: Trunk Posture Score		Neck					
Neck Posture Score	Legs	Legs	Legs	Legs	Legs	Legs	Legs
1	1	2	3	4	5	6	7
2	1	2	3	4	5	6	7
3	1	2	3	4	5	6	7
4	1	2	3	4	5	6	7
5	1	2	3	4	5	6	7
6	1	2	3	4	5	6	7

Step 12: Look-up Posture Score in Table B:

Using values from steps 9-11 above, locate score in Table B

Posture B Score

Step 13: Add Muscle Use Score

If posture mainly static (i.e. held >10 minutes), Or if action repeated occurs 4X per minute: +1

Muscle Use Score

Step 14: Add Force/Load Score

If load < 4.4 lbs. (intermittent): +0
If load 4.4 to 22 lbs. (intermittent): +1
If load 4.4 to 22 lbs. (static or repeated): +2
If more than 22 lbs. or repeated or shocks: +3

Force / Load Score

Step 15: Find Column in Table C

Add values from steps 12-14 to obtain Neck, Trunk and Leg Score. Find Column in Table C.

15	What do you usually do to get relief from pain in particular region?	Take rest	
		Take medicine/ use ointment	
16	Do you feel this kind of pain regularly?	Yes	
		No	
17	From which age you are facing such problem?		

Appendix IV

Feedback from the participants