

9) What types of cotton seeds you sow for cultivation?

- Transgenic: 1
- Non-transgenic: 2
- Both: 3 ()

10) If you sow transgenic cotton seeds, then which year you started GM cultivation?

- | | | |
|-------------|-------------|-------------|
| 2002-03 () | 2005-06 () | 2008-09 () |
| 2003-04 () | 2006-07 () | 2009-10 () |
| 2004-05 () | 2007-08 () | 2010-11 () |

11) What made you shift from non-transgenic cultivation to GM cultivation?

- General Trends: 1
- Economic Benefits: 2
- Others: 3 ()

12) Can you please rate your level of satisfaction with Bt cotton?

- Above Satisfactory: 1
- Satisfactory: 2
- Unsatisfactory: 3 ()

13) Are you aware of environmental sustainability practices (such as water management, pest management, crop management, soil management etc) in cotton cultivation?

- Yes: 1
- No: 2 ()

14) If coded 1 in Q13, then have you practiced such mechanisms in cotton production?

- Yes: 1
- No: 2 ()

➤ If coded 1 in Q 14, then why have you practiced such mechanisms? Please provide a brief reasoning.

.....
.....

➤ If coded 2 in Q 14, then why haven't you practiced such mechanisms? Please provide a brief reasoning.

.....
.....

15) Many species of beneficial insects, which help keep the insect pest population in place, are killed by the heavy utilisation of pesticides. Do you feel that this has an adverse impact upon cotton production in India?

- Yes: 1
- No: 2
- Don't Know: 3 ()

16) Do you follow precautionary measures while spraying pesticides?

- Yes: 1
- No: 2 ()

17) If coded 1 in Q 16, then what precautionary measures do you follow? Please specify them.

- | | | |
|--------|--------|--------|
| 1..... | 3..... | 5..... |
| 2..... | 4..... | 6..... |

18) If coded 2 in Q 16, then why don't you follow precautionary measures? Please provide a brief statement.

.....
.....

19) Do you know that pesticides and fertilizers used in cotton cultivation not only contaminate soil but also surface water?

- Yes: 1
- No: 2 ()

20) If coded 1 in Q 19, then do you follow any precautionary measures?

- Yes: 1
- No: 2 ()

21) If coded 2 in Q 20, then why don't you follow precautionary measures? Please provide a brief statement.

.....
.....

22) Have you ever felt that climate change (such as erratic rainfall patterns, increased temperatures, etc.) has affected cotton production?

- Yes: 1
- No: 2 ()

23) If coded 1 in Q 22, then how has climate change affected cotton production?

- Fabric Quality: 1
- Yield: 2
- Water Quality: 3
- Others: 4
- Specify (.....) ()

24) Increases in surface temperature and precipitation might alter the breeding pattern for some insects/pests. How has this affected the cotton production?

- Positively: 1
- Negatively: 2
- Don't Know: 3 ()

25) Say you adopt environmental sustainability practices in cotton production. How will this change the perception of other stakeholders in cotton value chain? Or will they abide by environmental regulatory framework?

- Yes: 1
- No: 2
- Don't Know: 3 ()

II. Ginners

1. Are you using the latest ginning technology?

- Yes: 1
- No: 2 ()

➤ If coded 1 in Q 1, then what technology are you employing and why? Please provide a brief statement.

.....
.....

➤ If coded 2 in Q 1, then why aren't you employing the latest technology? Please provide a brief statement.

.....
.....

2. Do you know about hazards of chromium lint contamination in lint cotton during ginning process?

- Yes: 1
- No: 2 ()

3. After ginning, what mechanisms you follow for cleaning up residues (such as leaf trash, sticks, foreign matter, etc.)?

.....
.....

4. Do you use varying technology for different types of cotton staples?

Yes: 1

No: 2 ()

5. Do you practice bale to bale tagging of fibre attributes?

Yes: 1

No: 2 ()

6. How do you manage water availability issues for cotton ginning? Please specify them.

1.....

4.....

7.....

2.....

5.....

8.....

3.....

6.....

9.....

III. Spinners

1) What is your plant size? Please specify.

.....

2) Are you employing the latest technology?

Yes: 1

No: 2 ()

➤ If coded 1 in Q 2, then what technology are you employing and why? Please provide a brief statement.

.....
.....

➤ If coded 2 in Q 2, then why aren't you employing the latest technology? Please provide a brief statement.

.....
.....

3) What is the annual order of cotton fibres for your spinning mill?

| <u>Types</u> | <u>Percentage of Total Order</u> |
|--------------------|----------------------------------|
| Short Staple: | () |
| Medium Staple: | () |
| Long Staple: | () |
| Extra Long Staple: | () |

4) Do you have your own waste refinery system?

Yes: 1
No: 2 ()

➤ If coded 1 in Q 4, then what type of waste refinery system do you have? Please explain.

.....
.....

➤ If coded 2 in Q 4, then why don't you have waste refinery system? Please explain.

.....
.....

5) Where do milling effluents go? Please specify.

.....
.....

6) How do you manage water availability issues for cotton spinning? Please specify them.

| | | |
|--------|--------|--------|
| 1..... | 4..... | 7..... |
| 2..... | 5..... | 8..... |
| 3..... | 6..... | 9..... |

IV. Weavers & Knitters

1. What oils and chemicals do you use during weaving and knitting process? Please list them.

| | | |
|--------|--------|--------|
| 1..... | 4..... | 7..... |
| 2..... | 5..... | 8..... |
| 3..... | 6..... | 9..... |

2. What mechanisms do you use for weaving and knitting?

Power Looms: 1
Hand Looms: 2 ()

3. If you are using power looms, then are they technically efficient?
 Yes: 1
 No: 2
 Don't Know: 3 ()
4. If coded 1 in Q 3, then why are they technically efficient? Please give a brief reason.

5. If coded 2 in Q 3, then why aren't they technically efficient? Please give a brief reason.

6. If you are using hand looms, then are you planning to switch to power looms?
 Yes: 1
 No: 2 ()
7. Have you ever felt shortages of cotton fibres during any of your years of plant operation?
 Yes: 1
 No: 2 ()
8. How do you take care of waste products? Please specify.

9. How do you manage water availability issues for weaving and knitting? Please specify.
 1..... 4..... 7.....
 2..... 5..... 8.....
 3..... 6..... 9.....

V. Manufacturers

1. What chemicals do you use for dyeing and printing? Please list them.
 1..... 4..... 7.....
 2..... 5..... 8.....
 3..... 6..... 9.....

2. Are you employing energy efficient technology in the manufacture of clothes?

Yes: 1
No: 2 ()

3. Please explain the waste management system at your site.

1..... 4..... 7.....
2..... 5..... 8.....
3..... 6..... 9.....

4. Is your manufacturing company domestic-oriented or foreign-oriented?

Domestic-oriented: 1
Foreign-oriented: 2
Both: 3 ()

5. How do you manage water availability issues? Please specify them.

1..... 4..... 7.....
2..... 5..... 8.....
3..... 6..... 9.....

VI. Retailers

1. Are you aware of environmental regulatory framework in textiles & clothing sector?

Yes: 1
No: 2 ()

2. If coded 1 in Q 1, then are your clothing suppliers/manufacturers complying with environmental regulatory framework?

Yes: 1
No: 2
Don't Know: 3 ()

3. Do customers care for clothes manufactured in compliance with environmental standards?

Yes: 1
No: 2
Don't Know: 3 ()

4. How do you manage your waste products? Please specify.

.....
.....
.....