

Questionnaire Survey for the Project Titled:

"Socio-Ecological Resilience as a Sustainable Development Strategy under the Context of Emerging Disaster Risks for Rural Settlements in Different Geo-Climatic Zones of India"

Name of Respondent:

Name of Village:

Date of exercise:

Project Coordinating Agency: ***Visvesvaraya National Institute of Technology, Nagpur***

Funded by: ***START International Inc., USA.***

PART A

I Personal Details

- 1) Gender Male/Female
- 2) Age group a) 18-29 b) 30-39 c) 40-49 d) 50-59 e) 60-69 f) 70 & above
- 3) Occupation a) Student b) salaried c) self employed d) unemployed e) retired
- 4) Level of education a) Primary b) higher secondary c) graduate d) post-graduate
- 5) Avg. family income (Rs. Per month) a) <5,000 b) 5,001-10,000 c) 10001- 20,000 d) 20,001- 30,000
e) 30,001-40,000 f) 40,001- 50,000 g) >50,000
- 6) Number of household persons _____
- 7) Disabilities, if any a) Vision b) hearing c) physical
- 8) Since how long are you staying in this locality?
a) 1- 5 yrs c) 6-10 yrs d) 11-20 yrs e) 21-30 yrs f) > 30 yrs

II About property

- 1) What is your house occupancy status?
a) tenant b) owner
- 2) How often do you have to repair the house?
a) Once in a year b) once in two years c) once in 5 years d) never
- 3) Do you have the house insured against disasters?
a) yes b) no

III About transportation:

- 1) What vehicles do you own? (numbers)
a) bicycle b) motorbike c) car d) none
- 2) What is the common mode of travel you use for following distances?
a) 1-2 kms b) 3-5 kms c) 5-10 kms d) >10 kms

i) Walk	ii) Bicycle	iii) Motorcycle
iv) Car	v) Public Transport	

IV About material possessions

- 1) Do you have access to following modes of information?
a) Television b) telephone c) PC and internet d) radio
- 2) What are the other electrical gadgets you own?
a) Air cooler b) air conditioner c) fan d) none
- 3) Do you have any cattle/ live stock?
a) yes b) no

PART B

In the present situation how would you weigh the following assumptions? Weigh 1-10 according to significance, 10 being the highest significant.

Assumption	Relative Weight
1. Food Variety	
2. Forest Produce & Timber	
3. Landslide & Flood Protection	
4. Customs & Rituals	

There are 7 questions. Choose either A or B area in which you would prefer to live, from each of the seven questions.

Q.1	Food Variety	Forest Produce & Timber	Landslide & Flood Protection	Customs & Rituals
A	>10 Food Groups	>80% population dependent	>10% population affected	Closely integrated with nature
B	<6 Food Groups	<50% population dependent	<10% population affected	Somewhat integrated with nature

Q.2	Food Variety	Forest Produce & Timber	Landslide & Flood Protection	Customs & Rituals
A	>10 Food Groups	<50% population dependent	<10% population affected	Closely integrated with nature
B	<6 Food Groups	>80% population dependent	>10% population affected	Somewhat integrated with nature

Q.3	Food Variety	Forest Produce & Timber	Landslide & Flood Protection	Customs & Rituals
A	<6 Food Groups	>80% population dependent	<10% population affected	Closely integrated with nature
B	>10 Food Groups	<50% population dependent	>10% population affected	Somewhat integrated with nature

Q.4	Food Variety	Forest Produce & Timber	Landslide & Flood Protection	Customs & Rituals
A	>10 Food Groups	>80% population dependent	>10% population affected	Somewhat integrated with nature
B	<6 Food Groups	<50% population dependent	<10% population affected	Closely integrated with nature

Q.5	Food Variety	Forest Produce & Timber	Landslide & Flood Protection	Customs & Rituals
A	>10 Food Groups	<50% population dependent	<10% population affected	Somewhat integrated with nature
B	<6 Food Groups	>80% population dependent	>10% population affected	Closely integrated with nature

Q.6	Food Variety	Forest Produce & Timber	Landslide & Flood Protection	Customs & Rituals
A	>10 Food Groups	>80% population dependent	<10% population affected	Somewhat integrated with nature
B	<6 Food Groups	<50% population dependent	>10% population affected	Closely integrated with nature

Q.7	Food Variety	Forest Produce & Timber	Landslide & Flood Protection	Customs & Rituals
A	<6 Food Groups	>80% population dependent	<10% population affected	Somewhat integrated with nature
B	>10 Food Groups	<50% population dependent	>10% population affected	Closely integrated with nature

In the present situation how would you weigh the following assumption? Weigh 1-10 according to significance, 10 being highest significant.

Assumption	Relative Weight
1. Ecosystem Knowledge & Training	
2. Participatory Governance	
3. Active engagement in Ecological Conservation	
4. Monitory provisions for ecological conservation and DRR	

There are 7 questions. Choose either A or B area in which you would prefer to live, from each of the seven questions.

Q.1	Ecosystem Knowledge	Participatory Governance	Ecological Conservation	Monitory Provisions
A	>75% regional biodiversity known	>75% population attend Gram Sabha	<15% population participate proactively	>10% revenue
B	<25% regional biodiversity known	<40% population attend Gram Sabha	>20% population participate proactively	<10% revenue

Q.2	Ecosystem Knowledge	Participatory Governance	Ecological Conservation	Monitory Provisions
A	>75% regional biodiversity known	<40% population attend Gram Sabha	>20% population participate proactively	>10% revenue
B	<25% regional biodiversity known	>75% population attend Gram Sabha	<15% population participate proactively	<10% revenue

Q. 3	Ecosystem Knowledge	Participatory Governance	Ecological Conservation	Monitory Provisions
A	<25% regional biodiversity known	>75% population attend Gram Sabha	>20% population participate proactively	>10% revenue
B	>75% regional biodiversity known	<40% population attend Gram Sabha	<15% population participate proactively	<10% revenue

Q.4	Ecosystem Knowledge	Participatory Governance	Ecological Conservation	Monitory Provisions
A	>75% regional biodiversity known	>75% population attend Gram Sabha	<15% population participate proactively	<10% revenue
B	<25% regional biodiversity known	<40% population attend Gram Sabha	>20% population participate proactively	>10% revenue

Q.5	Ecosystem Knowledge	Participatory Governance	Ecological Conservation	Monitory Provisions
A	>75% regional biodiversity known	<40% population attend Gram Sabha	>20% population participate proactively	<10% revenue
B	<25% regional biodiversity known	>75% population attend Gram Sabha	<15% population participate proactively	>10% revenue

Q.6	Ecosystem Knowledge	Participatory Governance	Ecological Conservation	Monitory Provisions
A	>75% regional biodiversity known	>75% population attend Gram Sabha	>20% population participate proactively	<10% revenue
B	<25% regional biodiversity known	<40% population attend Gram Sabha	<15% population participate proactively	>10% revenue

Q. 7	Ecosystem Knowledge	Participatory Governance	Ecological Conservation	Monitory Provisions
A	<25% regional biodiversity known	>75% population attend Gram Sabha	>20% population participate proactively	<10% revenue
B	>75% regional biodiversity known	<40% population attend Gram Sabha	<15% population participate proactively	>10% revenue

In the present situation how would you weigh the following assumptions? Weigh 1-10 according to significance, 10 being the highest significant.

Assumption	Relative Weight
1. Ethics & norms for resource conservation	
2. Continuity of traditional knowledge systems	
3. Climate Adaptive lifestyle	
4. Recognition for innovations in adaptation & mitigation	

There are 7 questions. Choose either A or B area in which you would prefer to live, from each of the seven questions.

Q. 1	Ethics & Norms	Continuity of TKS	Adaptive style	Life	Recognition for Innovation
A	Stringently followed	>60% TKS followed	<40% housing	vernacular	Recognized with award
B	Loosely followed	<10% TKS followed	>80% housing	vernacular	Poor recognition

Q.2	Ethics & Norms	Continuity of TKS	Adaptive style	Life	Recognition for Innovation
A	Stringently followed	<10% TKS followed	>80% housing	vernacular	Recognized with award
B	Loosely followed	>60% TKS followed	<40% housing	vernacular	Poor recognition

Q.3	Ethics & Norms	Continuity of TKS	Adaptive style	Life	Recognition for Innovation
A	Loosely followed	>60% TKS followed	>80% housing	vernacular	Recognized with award
B	Stringently followed	<10% TKS followed	<40% housing	vernacular	Poor recognition

Q.4	Ethics & Norms	Continuity of TKS	Adaptive style	Life	Recognition for Innovation
A	Stringently followed	>60% TKS followed	<40% housing	vernacular	Poor recognition
B	Loosely followed	<10% TKS followed	>80% housing	vernacular	Recognized with award

Q.5	Ethics & Norms	Continuity of TKS	Adaptive style	Life	Recognition for Innovation
A	Stringently followed	<10% TKS followed	>80% housing	vernacular	Poor recognition
B	Loosely followed	>60% TKS followed	<40% housing	vernacular	Recognized with award

Q.6	Ethics & Norms	Continuity of TKS	Adaptive style	Life	Recognition for Innovation
A	Stringently followed	>60% TKS followed	>80% housing	vernacular	Poor recognition
B	Loosely followed	<10% TKS followed	<40% housing	vernacular	Recognized with award

Q. 7	Ethics & Norms	Continuity of TKS	Adaptive style	Life	Recognition for Innovation
A	Loosely followed	>60% TKS followed	>80% housing	vernacular	Poor recognition
B	Stringently followed	<10% TKS followed	<40% housing	vernacular	Recognized with award

In the present situation how would you weigh the following assumptions? Weigh 1-10 according to significance, 10 being the highest significant.

Assumption	Relative Weight
1. Availability of alternative income source	
2. Distance from livelihood supporting services	
3. Access to financial institutions	
4. Training and development	

There are 7 questions. Choose either A or B area in which you would prefer to live, from each of the seven questions.

Q. 1	Alternative source	Supporting services	Access to financial institutions	Training and development
A	≥3 options	<10 kms	<5% population have access	>5 programs conducted annually
B	<3 options	>30 kms	>20% population have access	<2 programs conducted annually

Q. 2	Alternative source	Supporting services	Access to financial institutions	Training and development
A	≥3 options	>30 kms	>20% population have access	>5 programs conducted annually
B	<3 options	<10 kms	<5% population have access	<2 programs conducted annually

Q. 3	Alternative source	Supporting services	Access to financial institutions	Training and development
A	<3 options	<10 kms	>20% population have access	>5 programs conducted annually
B	≥3 options	>30 kms	<5% population have access	<2 programs conducted annually

Q. 4	Alternative source	Supporting services	Access to financial institutions	Training and development
A	≥3 options	<10 kms	<5% population have access	<2 programs conducted annually
B	<3 options	>30 kms	>20% population have access	>5 programs conducted annually

Q. 5	Alternative source	Supporting services	Access to financial institutions	Training and development
A	≥3 options	>30 kms	>20% population have access	<2 programs conducted annually
B	<3 options	<10 kms	<5% population have access	>5 programs conducted annually

Q. 6	Alternative source	Supporting services	Access to financial institutions	Training and development
A	≥3 options	<10 kms	>20% population have access	>5 programs conducted annually
B	<3 options	>30 kms	<5% population have access	<2 programs conducted annually

Q. 7	Alternative source	Supporting services	Access to financial institutions	Training and development
A	<3 options	<10 kms	>20% population have access	<2 programs conducted annually
B	≥3 options	>30 kms	<5% population have access	>5 programs conducted annually

In the present situation how would you weigh the following assumptions? Weigh 1-10 according to significance, 10 being the highest significant.

Assumption	Relative Weight
1. Early warning systems	
2. Integration of hazard map in planning	
3. Adaptive measures and coping mechanisms against natural calamities	
4. Response mechanism and community capacity	

There are 7 questions. Choose either A or B area in which you would prefer to live, from each of the seven questions.

Q. 1	Early warning systems	Integration of hazard map	Coping mechanisms	Response mechanism
A	Risks communicated monthly	Hazard map updated annually	<50% practiced	<5% population affected
B	Risks communicated annually	Hazard map updated in 5 years	>90% practiced	>10% population affected

Q. 2	Early warning systems	Integration of hazard map	Coping mechanisms	Response mechanism
A	Risks communicated monthly	Hazard map updated in 5 years	>90% practiced	<5% population affected
B	Risks communicated annually	Hazard map updated annually	<50% practiced	>10% population affected

Q. 3	Early warning systems	Integration of hazard map	Coping mechanisms	Response mechanism
A	Risks communicated annually	Hazard map updated annually	>90% practiced	<5% population affected
B	Risks communicated monthly	Hazard map updated in 5 years	<50% practiced	>10% population affected

Q. 4	Early warning systems	Integration of hazard map	Coping mechanisms	Response mechanism
A	Risks communicated monthly	Hazard map updated annually	<50% practiced	>10% population affected
B	Risks communicated annually	Hazard map updated in 5 years	>90% practiced	<5% population affected

Q. 5	Early warning systems	Integration of hazard map	Coping mechanisms	Response mechanism
A	Risks communicated monthly	Hazard map updated in 5 years	>90% practiced	>10% population affected
B	Risks communicated annually	Hazard map updated annually	<50% practiced	<5% population affected

Q. 6	Early warning systems	Integration of hazard map	Coping mechanisms	Response mechanism
A	Risks communicated monthly	Hazard map updated annually	>90% practiced	>10% population affected
B	Risks communicated annually	Hazard map updated in 5 years	<50% practiced	<5% population affected

Q. 7	Early warning systems	Integration of hazard map	Coping mechanisms	Response mechanism
A	Risks communicated annually	Hazard map updated annually	>90% practiced	>10% population affected
B	Risks communicated monthly	Hazard map updated in 5 years	<50% practiced	<5% population affected

In the present situation how would you weigh the following assumptions? Weigh 1-10 according to significance, 10 being the highest significant.

Assumption	Relative Weight
1. Forest Produce & Timber	
2. Ecological Conservation	
3. Continuity of TKS	
4. Alternative source	
5. Coping mechanisms	

There are 15 questions. Choose either A or B area in which you would prefer to live, from each of the seven questions.

Q.1	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	<50% population dependent	<15% population participate proactively	>60% TKS followed	<3 options	<50% practiced
B	>80% population dependent	>20% population participate proactively	<10% TKS followed	≥3 options	>90% practiced

Q.2	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	>80% population dependent	<15% population participate proactively	>60% TKS followed	≥3 options	>90% practiced
B	<50% population dependent	>20% population participate proactively	<10% TKS followed	<3 options	<50% practiced

Q.3	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	<50% population dependent	<15% population participate proactively	<10% TKS followed	<3 options	>90% practiced
B	>80% population dependent	>20% population participate proactively	>60% TKS followed	≥3 options	<50% practiced

Q.4	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	<50% population dependent	>20% population participate proactively	<10% TKS followed	≥3 options	<50% practiced
B	>80% population dependent	<15% population participate proactively	>60% TKS followed	<3 options	>90% practiced

Q.5	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	>80% population dependent	>20% population participate proactively	>60% TKS followed	<3 options	>90% practiced
B	<50% population dependent	<15% population participate proactively	<10% TKS followed	≥3 options	<50% practiced

Q.6	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	>80% population dependent	<15% population participate proactively	>60% TKS followed	≥3 options	<50% practiced
B	<50% population dependent	>20% population participate proactively	<10% TKS followed	<3 options	>90% practiced

Q.07	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	<50% population dependent	>20% population participate proactively	>60% TKS followed	≥3 options	>90% practiced
B	>80% population dependent	<15% population participate proactively	<10% TKS followed	<3 options	<50% practiced

Q.08	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	>80% population dependent	>20% population participate proactively	<10% TKS followed	<3 options	<50% practiced
B	<50% population dependent	<15% population participate proactively	>60% TKS followed	≥3 options	>90% practiced

Q.09	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	<50% population dependent	<15% population participate proactively	<10% TKS followed	≥3 options	>90% practiced
B	>80% population dependent	>20% population participate proactively	>60% TKS followed	<3 options	<50% practiced

Q.10	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	<50% population dependent	>20% population participate proactively	>60% TKS followed	≥3 options	<50% practiced
B	>80% population dependent	<15% population participate proactively	<10% TKS followed	<3 options	>90% practiced

Q.11	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	>80% population dependent	<15% population participate proactively	<10% TKS followed	≥3 options	<50% practiced
B	<50% population dependent	>20% population participate proactively	>60% TKS followed	<3 options	>90% practiced

Q.12	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	<50% population dependent	<15% population participate proactively	>60% TKS followed	≥3 options	<50% practiced
B	>80% population dependent	>20% population participate proactively	<10% TKS followed	<3 options	>90% practiced

Q.13	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	<50% population dependent	>20% population participate proactively	>60% TKS followed	<3 options	<50% practiced
B	>80% population dependent	<15% population participate proactively	<10% TKS followed	≥3 options	>90% practiced

Q.14	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	>80% population dependent	<15% population participate proactively	>60% TKS followed	<3 options 0	<50% practiced
B	<50% population dependent	>20% population participate proactively	<10% TKS followed	≥3 options	>90% practiced

Q.15	Forest Produce & Timber	Ecological Conservation	Continuity of TKS	Alternative source	Coping mechanisms
A	<50% population dependent	<15% population participate proactively	>60% TKS followed	<3 options	>90% practiced
B	>80% population dependent	>20% population participate proactively	<10% TKS followed	≥3 options	<50% practiced