

ANNEX IV USED STUDY TOOLS

XIII: Study Tools Used for Primary Assessment

XIII/1: FGD tool for Pani Panchayat

Actual _____ and certified _____ ayacut area of MI point;
Collection of PP member list (Executive/ General body);
Crop water budgeting;
Availability of water in different season;
Land holding including operational holding of all member of command area;
Meeting or resolution book, meeting register (General/ Executive);
Collect last three-year financial statement (audit statement, ledger & cash book) from PP;
Collect crop wise production/ yield details in last three years from PP;
Tax collection mechanism;

Sl.	Name of Pani Panchayat (PP)				Date of Registration				
	Number of Member	1. SC	_____	2. ST	_____	3. Other	_____	4. Total	_____
		5. No. of Female Member			_____				
	Name of President				Social Category of President		1. SC	2. ST	3. Other
	Does entire command area get irrigation?			1. Kharif	2. Rabi (Winter)		3. Boro (Summer)		4. Never
	Source of Irrigation in Command Area?			% of Share in Kharif	% of Share in Rabi		% of Share in Boro		
	Natural Rain Water:								
	Major Irrigation Project:								
	Minor Irrigation Project (MIP):								
	Local pond/ tank:								
	River/ Lift irrigation (RLIP):								
	Other...								
	Season wise cropping, pesticide and Fertilizer use:								
	Crop varieties	Monsoon	Winter	Summer	Name of used Pesticide		Name of used Fertilizer		
	Paddy								
	Ground nut								
	Brinjal								
	Pulses (Dal)								

<i>Tomato</i>					
<i>Okra (Bhendi)</i>					
<i>Sweet Potato (Kondamul)</i>					
<i>Potato</i>					
<i>Cauliflower</i>					
<i>Cabbage</i>					
<i>Mustard</i>					
<i>Beans</i>					
<i>Bitter Gourd (Karela)</i>					
<i>Sugarcane</i>					
<i>Garlic</i>					
<i>Onion</i>					
<i>Cucumber</i>					
<i>Watermelon</i>					
<i>Sunflower</i>					
<i>Chilli</i>					
<i>Others...</i>					

What are the climatic risk on crop cultivation?						
1. Fall of immature seed/ fruit/ flower					7.	
2. Increased pest attack					8.	
3. Drought or drought like condition					9.	
4. Damage to root due to prolonged flooding					10.	
5. Reduce in productivity					11.	
6.					12.	
Are you aware of climate resilient / stress tolerance crop variant/ seed?					Yes	No
What are the climate resilient/ stress tolerance crop you cultivate?						
1. Bt. cotton			4.		7	
2. Sweet Potato			5		8	
3. Hybrid paddy			6		9	
Does people cultivate fish in Major or Minor Irrigation tank?					Yes	No
Are you aware of climate resilient / stress tolerance fish species?					Yes	No
Sources of Water & Land Pollution within command area?		1. Use of Pesticide		2. Use of Fertilizer		3. Use of Fish Feeding
		4. Use of Hormone		5.		6.
		7.		8.		9.
Presence of any natural breeding/ nesting point/ fishery at any downstream of canal/ river (Within 15 km)?						
Address					Type # (Put 1/2/3/4)	Distance from MI Point (in Km.)
1.						
2.						
3.						
4.						
5.						
6.						
7.						
# Type: 1) Fish Breeding; 2) Crocodile nesting; 3) Turtle nesting; 4) Fishery						
Is there any migratory path within command area?						
Type of path (Elephant pass/___ / ___?)			Address			
1.						

2.						
3.						
Presence of cultural and sensitive features within tank command area?						
Cultural Resource (Put)		Number	Sensitive receptor(Put)		Number	
<i>Temple</i>			<i>School</i>			
<i>Church</i>			<i>Hospital</i>			
<i>Masjid</i>			<i>Children Park</i>			
<i>Graveyard</i>			<i>Playground</i>			
Presence of Sacred groove/ Archaeological site/ Polluting industry within tank command area?						
Name		Type # (Put 1/ 2/ 3)	Address			
1.						
2.						
3.						
4.						
5.						
# Type: 1) Sacred groove (Worshipping/ God tree); 2) Archaeological site; 3) Polluting industry						
Presence of Natural Habitat/ Mine/ Heavy Polluting industry within 10 km. radius of command area?						
Feature	Name	Distance from MI point (in Km.)	Address			
<i>Forest</i>						
<i>Wild Life Sanctuary</i>						
<i>Lake like Chilika</i>						
<i>Critically Polluted Area</i>						
<i>Heavy Polluting Industry</i>						
<i>Mine</i>						
Is there any privately owned or Encroached (Jabardakhal)/ structure expected to be affected due to project implementation?					Yes	No
Location	Type of Structure # (Put number)	Number of Structure	SC	ST	Others	

# Type of Structure: 1) Pucca House; 2) Semi Pucca House; 3) Kutchha House; 4) House cum shop; 5) Pucca Shop; 6) Semi Pucca shop; 6) Kutchha Shop; 7) Cattle House; 8) Mandir; 9) Masjid; 10) Graveyard						
Type of public utilities expected to be affected during project implementation (Put tick & give Number)						
Utilities	<i>1. Bus stand</i>	<i>2. Electric Post</i>	<i>3. Light post</i>	<i>4. Toilet</i>	<i>5. RLI point</i>	<i>6. Drinking Water Source</i>
Number						
How frequent do you conduct soil testing (Put)			Annually	For each Crop	Never	
Application of manure as per soil test (Put)			For All Crop	For Selected Crop	Not Applied	
Use organic manures only / maximum (Put)			For All Crop	For Selected Crop	Not Applied	
Maximum use of synthetic/ chemical fertilizer (Put)			For All Crop	For Selected Crop	Not Applied	
Application of Vermin compost (Put)			For All Crop	For Selected Crop	Not Applied	
Green manuring (Put)			Annually	Seasonally	Never	
Azolla /Blue Green Algae Application (Put)			For All Crop	For Selected Crop	Not Applied	
Bacterial culture treatment (seed treated with bacteria) (Put)			All Pulses	Selected Pulses	Not Applied	
Cultivation of Nitrogen fixing crops (Put)			Regularly	Occasionally	Never	
Integrated pest management (IPM) (Put)						
Pheromone trapping			For All Crop	For Selected Crop	Not Applied	
Light trapping			For All Crop	For Selected Crop	Not Applied	
Biological Treatment (Predator spray)			For All Crop	For Selected Crop	Not Applied	
Synthetic / inorganic spray / treatment			For All Crop	For Selected Crop	Not Applied	
Organic spray			For All Crop	For Selected Crop	Not Applied	
Mechanical pest treatment (Manual)			For All Crop	For Selected Crop	Not Applied	
Micro/ Pressurized Irrigation facilities within command area? (Put)						
Use of drip irrigation system		1. Owning & using	2. Not owning & not using	3. Owning & not using	4. Not owning & using	
Use of sprinkler irrigation system		1. Owning & using	2. Not owning & not using	3. Owning & not using	4. Not owning & using	
Farming Practices adopted within Command Area (Put)						
Mixed cropping		<i>Kharif</i>	<i>Rabi</i>	<i>Summer</i>	<i>All</i>	<i>Never</i>
Intercropping		<i>Kharif</i>	<i>Rabi</i>	<i>Summer</i>	<i>All</i>	<i>Never</i>
Integrated farming system					1. Yes	2. No
Weed treatment (Weeding)		1. Manual	2. Mechanical	3. Chemical	4. No weeding	

Soil amendment / treatment (acidic / alkaline)				1. Yes	2. No		
Crop rotation				1. Yes	2. No		
System of rice intensification (SRI)	Kharif	Rabi	Boro	All Season	Never		
Number of Dal mill available within block?				_____ No	None		
Number of Dal mill owned by Adivasi person				_____ No	None		
Number of Rice Mill available within block?				_____ No	None		
Number of Rice mill owned by Adivasi person				_____ No	None		
Name of Dal Mill unit:		Address:		Distance from MI Point	_____ Km.		
Sources of Pollution in Dal Mill	Environmental Concern/ Issue		Adopted Mitigation Measures				
1.							
2.							
3.							
Name of Rice Mill unit:		Address:		Distance from MI Point	_____ Km.		
Sources of Pollution in Rice Mill	Environmental Concern/ Issue		Adopted Mitigation Measures				
1.							
2.							
3.							
Participation of women in agriculture							
Frequency of conducting meeting by PP	Twice in a month	Monthly	Once in two months	Quarterly	Half-yearly	Yearly	Other
Executive Body							
General Body							
Women participation in Meeting	Very Low	Low	Moderate	High	Very High		
Executive Body							
General Body							
Participation of Adivasi member in meeting							
Frequency of participation by women members	All	Most of the meetings	Irregular	Very Low			
Executive Body							
General Body							
Frequency of Participation of Adivasi member in meeting							
Women Participation in decision making process	Very Low	Low	Moderate	High	Very High		
Participation of Adivasi member in decision making process							
Participation of women in cultivation?							

Participation of Adivasi women in cultivation?					
Participation of women in selling agricultural product?					
Participation of Adivasi people in selling agricultural product?					
How frequent do you prepare crop water budgeting?	Seasonally	Annually	Bi-annual	Others	
Who prepare crop water budgeting?	PP	Irrigation Dept.	Agri. Dept.		
Date of preparing last crop water budgeting?					_____
How frequent do you collect water tax from each member?	Monthly	Seasonally	Half-yearly	Yearly	Other
One-time contribution of each member?				Rs. _____/-	

Date:

Name of Researchers:

FGD Attendance sheet:

Sl. No.	Name of Fisherman	Signature
1		
2		
3		
4		
5		
6		
7		
8.		
9.		
10.		
11.		
12.		

XIII/2: FGD tool for FPO

Sl .	1. Name of FPO: _____	2. Year of Registration: _____	Not applied	Applied		
3.	District Name: _____	Block Name: _____	GP Name: _____	Village Name: _____		
4.	Number of members of FPO	I. SC: __	ST: __	Others: __	Total: __	Female: __
5.	Business Activity by FPO? (Put)					
	Input Supply(Put)	Temporary Storing (Put)	Supply (Put)	Processing(Put)		
	<i>Fertilizer</i>			<i>Pickle Making</i>		
	<i>Pesticide</i>			<i>Jam/ Jelly making</i>		
	<i>Hormone</i>			<i>Dall Mill</i>		
	<i>Seed/ seedling</i>			<i>Hatchery</i>		
	<i>Fish fingerling</i>			<i>Others...</i>		
	<i>Raw/ Primary agri-product.</i>			<i>Others...</i>		
	<i>Raw/ Primary forest-product.</i>			<i>Others...</i>		
	<i>Raw/ Primary Horticulture product</i>					
	<i>Others...</i>					
	<i>Others...</i>					
	<i>Others...</i>					
6.	List down item name of input supply by FPO					
a)	List of Fertilizer	Pesticide	Hormone	Seed	Seedling	
	1	1	1	1	1	
	2	2	2	2	2	
	3	3	3	3	3	
	4	4	4	4	4	
	5	5	5	5	5	
	6	6	6	6	6	
	7	7	7	7	7	
b)	List of Fish fingerling	Agri-product.	Horticulture product	Forest-product.		
	1	1	1	1		
	2	2	2	2		
	3	3	3	3		
	4	4	4	4		
	5	5	5	5		
c)	List of Pickle	Jam/ Jelly	Dall Mill	Fish Hatchery		
	1	1	1	1		
	2	2	2	2		
	3	3	3	3		
	4	4	4	4		

	5	5	5	5			
7.	Women participation in decision making? (Put)	<i>Nil</i>	<i>Very Low</i>	<i>Low</i>	<i>Moderate</i>	<i>High</i>	<i>Very High</i>
8.	Active involvement of women members in FPO business activity? (Put)	<i>Nil</i>	<i>Very Low</i>	<i>Low</i>	<i>Moderate</i>	<i>High</i>	<i>Very High</i>
9.	Participation of women members in regular meeting? (Put)	<i>Nil</i>	<i>Very Low</i>	<i>Low</i>	<i>Moderate</i>	<i>High</i>	<i>Very High</i>
10	Number of different age grouped women members in FPO/ FPC?	<i>Teenager</i>	<i>Married</i>	<i>Unmarried</i>	<i>Widow</i>	<i>Senior Citizen</i>	
		_____	_____	_____	_____	_____	
11	Adivasi member's participation in decision making? (Put)	<i>Nil</i>	<i>Very Low</i>	<i>Low</i>	<i>Moderate</i>	<i>High</i>	<i>Very High</i>
12	Active involvement of Adivasi members in FPO business activity? (Put)	<i>Nil</i>	<i>Very Low</i>	<i>Low</i>	<i>Moderate</i>	<i>High</i>	<i>Very High</i>
13	Participation of Adivasi members in regular FPO meeting?	<i>Nil</i>	<i>Very Low</i>	<i>Low</i>	<i>Moderate</i>	<i>High</i>	<i>Very High</i>
14	Number of different age grouped Adivasi members in FPO/ FPC?	<i>Teenager</i>	<i>Married</i>	<i>Unmarried</i>	<i>Widow/er</i>	<i>Senior Citizen</i>	
		_____	_____	_____	_____	_____	

Date:

Name of Researchers:

FGD Attendance sheet:

Sl. No.	Name of FPO Member	Signature
1		
2		
3		
4		
5		
6		
7		
8.		
9.		
10.		
11.		
12.		
13.		
14.		

XIII/3: FGD tool for SHG

1. Collect list of SHG members with their educational details, age, occupation;
2. Collect Meeting register;
3. Collect audit statement/ cash book and other related financial documents;

Sl.	Name of SHG:				Year of Registration:			
	District Name:	Block Name:	Gram Panchayat:		Village Name:			
Does this SHG currently functioning?						Yes	No	
Loan Taken History in Last Three Years from SHG?								
	Name of SHG member taken Loan	SC/ST/Other	Occupation# Primar y Secondar y		Year of Loan	Purpose of loan		
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
# Occupation: Housewife- 1; Cultivator- 2; Agricultural Labourer- 3; Daily Wage Earner- 4; Salaried- 5; Craft Artisan- 6, Business- 7; Student- 8; Others (specify)- 9.								
	How frequent each member deposit money?	Weekly	Bi-weekly	Monthl y	Bi-monthly	Quarterl y	Other..	
	Per month/ cycle contribution of members? (in Rs.)	—	—	—	—	—	—	
	Name of Bank where A/c. Exist?	1. Name: _____					2. None	
	Type of Bank A/c.						1. Saving	2. Current
How do you utilise available fund?								
1. Loan to SHG members as per requirement				4. Investment in SHG driven trading/ business.				
2. Loan to non-SHG members				5. None among above options				
3. Invest in business activity by non-SHG members				6. Others..				
Name of business activity by SHG group?								
	Business Activity				Years of Operatio n	Capital Investme nt	% of Portabilit y	

1								
2								
3								
4								
How many members are involved in IGA activity?			___ Nos	None				
Name of IGA activity by SHG members?								
1.		2						
3.		4.						
5.		6.						
Do you update attendance register on regular basis?			Yes	No	Not Present			
Do you update meeting resolution on regular basis?			Yes	No	Not Present			
Source of funding?	1. Saving by members	2. Bank Loan	3. Income from investment	4. Business Profit	5. Grant	6. Other...		
Training Received by SHG Members in last three years?								
Training Tropic		Year of Training	Training Location	Organised by				
1								
2								
3								
4								
5								
Will you be interested to involve in business activity:								
Sl. No.			Sl. No.					
___ Mushroom			___ Backyard Nutritional Garden (Papaya, Banana, Drumstick, Klime, Guava, Yam)					
___ Fish Processing			___					
___ Lemon Grass Cultivation			___					
___			___					
___			___					
Will you be interested in receiving training on:								
Sl. No.			Sl. No.					
___ Demonstration of climate resilient culture			___ Integrated farming Syatem (IFS)					
___ Demonstration of cage culture			___ Demonstration of Integrated Farming system					
___ Demonstration of self replicating fish species			___ Demonstration of aquapoics					
___ Demonstration on Stress tolerant fish/ crop varieties			___ Demonstration of RAS (Recirculatory aqua culture system)					
___ SRI/DSR demonstration			___					
___			___					
Participation of Adivasi members in regular meeting?			Nil	Low	Very low	Moderate	High	Very High

	Participation of Adivasi members in decision making?	<i>Nil</i>	<i>Low</i>	<i>Very low</i>	<i>Moderate</i>	<i>High</i>	<i>Very High</i>
	Participation of Adivasi members in IGA activity?	<i>Nil</i>	<i>Low</i>	<i>Very low</i>	<i>Moderate</i>	<i>High</i>	<i>Very High</i>

XIII/4: FGD tool for fisherfolk

1. Consult with Fisher Community, Fishery Dept., Processing Unit, Fish Feed Mill.
2. Collect list of Hatchery, Ornamental Fish Farming Unit, Feed Mill, Fish Export House, Processing Unit from Block/ district level Fishery Dept. (OPDC).
3. Capture 2-3 photograph of each EGD.

1.	Source of Fish Fingerling	Name of Unit	Distance from MI Tank (in Km.)	Name of Available Fish Fingerling		
		1. Own home made	XXXXX	XXXXXX	1. 2.	3. 4.
	2. Mobile trader	XXXXXX	XXXXXX	1. 2.	3. 4.	5. 6.
	3. Nearby Market	1		1. 2.	3. 4.	5. 6.
		2		1. 2.	3. 4.	5. 6.
		3		1. 2.	3. 4.	5. 6.
		4		1. 2.	3. 4.	5. 6.
	4. Fish Hatchery	1		1. 2.	3. 4.	5. 6.
		2		1. 2.	3. 4.	5. 6.
		3		1. 2.	3. 4.	5. 6.
		4		1. 2.	3. 4.	5. 6.
	4. Others Source (Name)	1		1. 2.	3. 4.	5. 6.
		2		1. 2.	3. 4.	5. 6.
	5. Others Source (Name)	1		1. 2.	3. 4.	5. 6.
		2		1. 2.	3. 4.	5. 6.
2.	Are any women involved in Fish Fingerling selling in local market?			Yes	No	Can't Say
3.	Number of Adivasi household involved in Fish Fingerling selling?			_____ No	None	Can't say

4.	Participation of women in fish catching net making?	Nil	Low	Very Low	Moderate	High	Very High	
5.	Name of majorly cultivated fish in Pond/ tank/ local water bodies?							
	1. Rohi	2. Bhakur	3. Mirikali	4. Mourali	5. Jalanga	6. Kalibaisi		
	7.	8.	9.	10.	11.	12.		
	13.	14.	15.	16.	17.	18.		
6.	Does women assist male member of family in pisciculture?					Yes	No	
7.	Number of Adivasi household involved in commercial pisciculture?				_____ No	None	Can't say	
8.	Involvement of Adivasi women in fish catching?	Nil	Low	Very Low	Moderate	High	Very High	
9.	Participation of women workers in pisciculture?	Nil	Low	Very Low	Moderate	High	Very High	
10.	Participation of Adivasi women in pisciculture?	Nil	Low	Very Low	Moderate	High	Very High	
11.	Where you sell this fish?	1. Local traders	2. Local Market	3. Processing Unit		4. Hotel		
		5. Export House	6. Direct Export	7. Others....				
12.	Involvement of Adivasi women in fish selling/trading?	Nil	Low	Very Low	Moderate	High	Very High	
13.	How many Adivasi house is involved in fish selling in local market?				_____ No.	None	Can't say	
14.	How do you measure pollution level in fish pond?	1. Visual Measures		2. Change in water colour		3. Odour in water		
		4.		5.		6.		
15.	How do you transport fish to local market or processing unit or exporter?	1			2			
		3			4			
16.	Does local trader/ people use ice box for fish preservation?				1. Yes	2. No	3. Can't Say	
17.	Environmental adverse effect due to use of fish feed							
	<i>Name of Fish feed</i>	<i>Source of Feed (1. House Grown/ 2. Purchased from Market/ 3. Mill)</i>	<i>Adverse Effect</i>			<i>Mitigation Measures taken</i>		
	1.							
	2.							
	3.							
	4.							
18.	Name of fish feed mill:			19. Address:			20. Distance from MI Point	
							_____ Km.	
21.	Source of Pollution from fish feed mill							
	<i>Input Material</i>	<i>Generated Waste</i>	<i>Environmental Issues</i>			<i>Mitigation Measures taken</i>		

22.	Number of women workers involved in mill?			_____No.	None		Can't say	
23.	Women workers participation in fish feed mill?		<i>Nil</i>	<i>Low</i>	<i>Very Low</i>	<i>Moderate</i>	<i>High</i>	<i>Very High</i>
24.	How many Adivasi person is involved in fish feed mill?			_____No	None		Can't Say	
25.	Number of Adivasi women involved in fish feed mill?			_____No	None		Can't Say	
26.	Involvement of Adivasi women in fish feed mill?		<i>Nil</i>	<i>Low</i>	<i>Very Low</i>	<i>Moderate</i>	<i>High</i>	<i>Very High</i>
27.	Is any child labour involve in fish feed mill?						<i>Yes</i>	<i>No</i>
29.	On occurrence of fish disease what measures to you adopt?							
	<i>Diseases</i>		<i>Measures Taken/ Used Medicine</i>		<i>Environmental Effect of Medicine</i>			
	1.							
	2.							
	3.							
	4.							
	5.							
	6.							
	7.							
30.	Is there any fish processing unit in nearby area?			<i>1. Yes</i>	<i>2. No</i>	<i>3. Can't Say</i>		
31.	Name of Processing Unit:		32. Address:			33. Distance from MI Point		<u> </u> Km.
34.	If Yes, provide details of fish Processing Unit							
	<i>Type of Processing</i>		<i>Generated Waste</i>		<i>Environmental Issues</i>		<i>Mitigation Measures taken</i>	
	1							
	2							

	3								
	4								
	5								
35.	Number of women workers involved in fish processing unit?			___No.	None		Can't say		
36.	Women workers participation in fish processing?			<i>Nil</i>	<i>Low</i>	<i>Very Low</i>	<i>Moderate</i>	<i>High</i>	
37.	How many Adivasi person is involved in fish processing unit?			___No	None		Can't Say		
38.	Number of Adivasi women involved in fish processing unit?			___No	None		Can't Say		
39.	Involvement of Adivasi women in fish processing industry?			<i>Nil</i>	<i>Low</i>	<i>Very Low</i>	<i>Moderate</i>	<i>High</i>	
40.	Is any child labour involve in fish processing unit?							<i>Yes</i>	<i>No</i>
41.	Is there any Fish Export House in nearby area?			<i>Yes</i>		<i>No</i>		<i>Can't Say</i>	
42.	Name of Fish Export Unit:		43. Address:			44. Distance from MI Point		___ Km.	
45.	Generated Waste from Fish Export House		Environmental Effect/ Issues			Mitigation Measures taken			
	1								
	2								
	3								
	4								
46.	Number of women workers involved in fish export unit?			___No.	None		Can't say		
47.	Women workers participation in fish export unit?			<i>Nil</i>	<i>Low</i>	<i>Very Low</i>	<i>Moderate</i>	<i>High</i>	
48.	How many Adivasi person is involved in fish export unit?			___No	None		Can't Say		
49.	Number of Adivasi women involved in fish export unit?			___No	None		Can't Say		
50.	Involvement of Adivasi women in fish export industry?			<i>Nil</i>	<i>Low</i>	<i>Very Low</i>	<i>Moderate</i>	<i>High</i>	
51.	Is any child labour involve in fish processing unit?							<i>Yes</i>	<i>No</i>
52.	Are you interested to participate in demonstration on:								
	1. <i>Pangasius culture</i>			2. <i>Climate resilient culture</i>			3. <i>Cage culture</i>		
	4. <i>Self-replicating species</i>			5. <i>Germ Plasm</i>			6. <i>Aquaponics</i>		
	7. <i>Integrated Farming system</i>			8. <i>Recirculatory aqua culture system</i>					
53.	Is there any Ornamental Fish Culture Unit?			1. <i>Yes</i>		2. <i>No</i>		3. <i>Can't Say</i>	
54.	Name of Unit:		55. Address:			56. Distance from MI point		___ Km.	
57.	Name of Ornamental Fish Cultured:		1. _____		2. _____		3. _____		
			4. _____		5. _____		6. _____		
58.	Where do you cultivate ornamental fish?			1. <i>Earthen Pond</i>			2. <i>Pond with concrete bed</i>		
				3. _____			4. _____		

59.	Do you cultivate ornamental fish with indigenous species?						1. Yes	2. No
60.	If Yes, Risk of cultivating ornamental fish with indigenous species?		1.			2.		
			3.			4.		
61.	<i>Used Feed</i>	<i>Used Medicine</i>	<i>Generated Waste Material</i>			<i>Environmental Issues/ effect</i>		
	1							
	2.							
	3.							
	4.							
	5.							
62.	Number of women workers involved in Ornamental Fish Culture Unit?					___No.	None	Can't say
63.	Women workers participation in Ornamental Fish Culture Unit?		Nil	Low	Very Low	Moderate	High	Very High
64.	How many Adivasi person is involved in Ornamental Fish Culture Unit?					___No	None	Can't Say
65.	Number of Adivasi women involved in Ornamental Fish Culture Unit?					___No	None	Can't Say
66.	Involvement of Adivasi women in Ornamental Fish Culture industry?		Nil	Low	Very Low	Moderate	High	Very High
67.	Is any child labour involve in this Ornamental Fish Culture Unit?						Yes	No
68.	Is there any fish Hatchery in this block?						Yes	No
69.	Number of different type of fish Hatchery in the block?			Fixed Nos.:		Portable Nos.:		
70.	Name of Hatchery:	71. Owner Type: (Own/ Private Company/ Govt.)	72. Address:			73. Distance from MI Point		___Km
74.	Type of Hatching Unit?					Portable	Fixed	
75.	Pollution from Hatchery							
	<i>Used Medicine/ Hormone</i>		<i>Adverse Environmental Effect</i>			<i>Adopted Mitigation Measures</i>		
	1							
	2							
	3							
	4							
76.	Number of women workers involved in Hatchery Unit?					___No	None	Can't say
77.	Women workers participation in Hatchery Unit?		Nil	Low	Very Low	Moderate	High	Very High
78.	How many Adivasi person is involved in Hatchery Unit?					___No	None	Can't Say
79.	Number of Adivasi women involved in Hatchery Unit?					___No	None	Can't Say

80.	Involvement of Adivasi women in fish Hatching Unit?	<i>Nil</i>	<i>Low</i>	<i>Very Low</i>	<i>Moderate</i>	<i>High</i>	<i>Very High</i>
81.	Is any child labour involve in this Hatchery Unit?					<i>Yes</i>	<i>No</i>
82.	Does people perform integrated fish farming system in pond/ waterbody?					<i>Yes</i>	<i>No</i>
83.	Does people culture indigenous species along with exotic species in same pond?					<i>Yes</i>	<i>No</i>
84.	Environmental Risk of Integrated fish farming?						
	<i>Risk/ Environmental Effect</i>	<i>Adopted Mitigation Measures</i>					
	1						
	2						
	3						
	4						
	5						
85.	Is there any downstream fishery location?	1.			2.		
	3.	4.			5. None		
86.	Is there any natural breeding point of Fish at any downstream point of canal/ river?	1.			2.		
		3.			4. None		

Date:

Name of Researchers:

FGD Attendance sheet:

Sl. No.	Name of Fisherman	Signature
1		
2		
3		
4		
5		
6		
7		
8.		
9.		
10.		
11.		
12.		

XIII/5: Consultation Checklist for DFO Brahmapur

S	Duration of Natural Breeding of Turtle							
1.	Is there any decrease in Turtle Population at Rishikulla point in last ten years							
	Reason of decrease?							
	Has pesticided use in command area and downstream transportation impacted Flora Species?							
	Period of Nesting by olive ridley turtles?							
	Extent of nesting area	Address	From	To				
	Species name of Turtle?							
	Species Name			Local Name	Scientific Name	2018	2017	2016
	1							
	2							
	3							
	4							
	Anticipated Impact on Turtle species							
	Is there any decrease / increase in species number			Last 5 Years		Decrease	Increase	No Change
				Last 10 Years				
	If decrease, reason of decrease in number?							
	Factors affecting nesting of olive ridley turtles?							
	Reason			Mitigation Measures				
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	Does any of project activities impact olive ridley turtles?							
	Impact			Mitigation Measures	Implementing Agency	M&S Agency	Budget	
	1							
	2							
	3							
	4							

5					

XIII/6: Consultation Checklist for CCF, Simlipal

1. Consult with Simlipal Forest Authority/ DFO.
2. Collect list of Flora and Fauna species available within Simlipal forest.
3. Consult with Block Level Bio-diversity Board on available flora & fauna species and collect People Bio-diversity Report (PBR).
4. Collect list of Flora and Fauna species available in project block/ district.

1.	Will there be any impact on Simlipal forest due to project implementation?			Yes	No
2.	Impact	Mitigation Measures	Implementing Agency	Budget for EMP	
	1				
	2				
	3				
	4				
	5				
	6				
3.	Does animal drinks water from this MI tank and nearby canal system?		Yes	No	Can't say
4.	Name of Vulnerable Animal Species found outside of Simlipal Forest	1.	2.	3.	
		4.	5.	6.	
		7.	8.	9.	
5.	Is there any Migratory Route in Project District?		Yes	No	Can't Say
6.	Migratory Route Address	Type of Route (Cattel / Elephant/.../... pass?)	Period of Pass (Month/ season)	Time of Pass	
	1				
	2				
	3				
	4				
	5				
	6				

Date:

Name of Researcher:

XIII/ 7: Consultation Checklist for Line Departments

Integrated Tribal Development Agencies (ITDAs)

Points of Discussion with Integrated Tribal Development Agencies (ITDAs):

1. Tribal Demography in the ITDA Area (Collected Tribal Profile from ITDA);
2. Number of tribal village / GPs where tribal concentration is
 - a. Less than 25 %
 - b. 25% to 50%
 - c. More than 50%
3. Education, Health, Economic Status of Tribal (Data from ITDA);
4. Schemes / Projects / Programs Implemented by ITDA for Tribal Development (Collected Progress Report / Annual Report);
5. Key Tribal Issues, prospects and suggested Measures
 - a. Agriculture (land holding, land under FRA, use of land given under FRA, inputs, agricultural credit, production, productivity, agricultural practices, use of fertilizer and pesticides, farming seasons (only Kharif or Kharif and Rabi);
 - b. Horticulture (type of crops cultivated, production, productivity etc.);
 - c. Fishery (use of tank for fishery, getting fish seeds, no. of times catch fish etc.)
 - d. Irrigation (area irrigated, irrigation sources, irrigation in Kharif& Rabi, availability of pump sets for irrigation, surface and ground water irrigation, own irrigation sources-bore well open well etc.);
 - e. Infrastructure (type of infrastructures available such as agro-processing units, cold storage, warehouse, pack house, transit godown, community godown, ice factory, dal mill, rice mill / huller, oil extraction unit etc.);
 - f. Agribusiness (marketing mechanism, Existence of FPO / FPC, collective marketing / individual marketing, value addition of MFP / agricultural / horticultural commodities etc.);
 - g. Health (health care units, health care services mortality, morbidity, malnutrition etc.)
 - h. Education (enrolment, retention, girl's education, drop out, special education drive, scholarship, skill development, pre-placement training etc.);
 - i. Migration (intensity of migration, places of migration, women & children migration, migration period, registration for migration at GP level etc.);
 - j. Forest Produce Collection (MFP) (types of MFPs collected, scope of processing of MFPs, selling mechanism, season of collection of MFPs, issues in collection of MFPs etc.);
 - k. Indebtedness (major source of credit, access to institutional credit, SHGs as creditor, key challenges in accessing institutional credit etc.); and
 - l. Livelihood (overall engagement pattern, key economic activities and average income, key livelihood challenges, initiatives for livelihood improvement of tribals)
6. Key Measures taken by ITDA in this regard and critical gap

Integrated Tribal Development Agencies (ITDAs)

Points of Discussion with Integrated Tribal Development Agencies (ITDAs)

1. Name of ITDA:

Date:

2. Block Name:

District:

3. Name of Respondent:

Name of Respondent	Designation
1	
2	
3	
4	

4. Tribal Demography in the ITDA Area (Collected Tribal Profile from ITDA);

5. Number of tribal village / GPs where tribal concentration is

a. Less than 25 %:- _____ Nos.

b. 25% to 50%: _____ No.

c. More than 50%: _____ No.

6. Education, Health, Economic Status of Tribal (Data from ITDA);

7. Schemes / Projects / Programs Implemented by ITDA for Tribal Development (Collected Progress Report / Annual Report);

8. Key Tribal Issues, prospects and suggested Measures (follow guidance given in 1st Page)

Tropic	Problem/ Issues	Measures taken by ITDA	suggested Measures for Improvement
--------	-----------------	------------------------	------------------------------------

Tropic	Problem/ Issues	Measures taken by ITDA	suggested Measures for Improvement
Agriculture			
Horticulture			
Fishery			
Irrigation			
Agri processing Infrastructure			
Agri Business			

Tropic	Problem/ Issues	Measures taken by ITDA	suggested Measures for Improvement
Health			
Education			
Migration			
Forest Product Collection			
Credit			
Livelihood			

Name of Researcher:

Dept. of Agriculture

Points of Discussion with Dept. of Agriculture

1. Block Name:

District:

Date:

2. Name of Respondent:

Name of Respondent	Designation
1	
2	
3	
4	

Does dept. has adopted any Integrated Pest and Nutrition Management Practices: Yes/ No/ taken by ATMA.

Des dept. conduct awareness raising programme on safe use of fertilizer/ and pesticide: Yes/ No.

If yes, mention name of project/ scheme under which this such practice is adopted by dept.

3. Crop Diseases & Pesticide Use

Crop Name	Diseases	Used Pesticide
1		
2		
3		
4		
5		
6		
7		

8		
---	--	--

4. Schemes / Projects / Programs Implemented by Dept. of Agriculture (Collected Progress Report / Annual Report);

5. Use of Ground water for irrigation purpose: Kharif season ____% during Rabi season _____%

6. Sources of Irrigation during Rabi Season: 1)___ 2)___ 3)___

7. Problem Faced in implementing schemes/ project/ programs (specially Environmental & Social issued as well shortage of manpower)

Problem Faced/ Issues/ Challenges	Adopted Measures	Suggestion/ Recommendation for Further Improvement
1)		
2		
3		
4		
5		

4. Discuss thoroughly on following Topic:

Tropic	Environmental/ Social Issues	Adopted Measures
Irrigation Water		
Pesticide Use		
Awareness of farmers on safe use of pesticide/ fertilizer		

Tropic	Environmental/ Social Issues	Adopted Measures
Ground Water Extraction		
Sources of Irrigation		
Pollution from Processing Unit (Dal mill/ rice mill)		
Women Participation in 1) Agriculture		
2) Agri Processing		
Industrial Pollution on Agri land		
Shortage of Agri Labour		
Shortage of Cold Storage		
Excess Production		
Drought		
Crop loss due to flood/ cyclone/ animal attack		

Tropic	Environmental/ Social Issues	Adopted Measures
Salt Water Intrusion		

Name of Researcher:

Dept. of Fishery

Points of Discussion with Dept. of Fishery

1. Block Name:

District Name:

Date:

2. Name of Respondent:

Name of Respondent	Designation
1	
2	
3	
4	

3. Does Fishery department cultivate fish in Minor Irrigation (MI) tank: Yes/ No.

4. If no, Who else cultivate fish in Minor Irrigation tank: _____

5. To whom lease is given for pisciculture in MI tank: Cooperative/ Individual Person/ SHG/ Pani Panchayat

6. Who allot this lease: *Dept. of Fishery/ GP/ Irrigation Dept/ Pani Panchayat/ Other (Mention Name)*_____

7. For how many years one time lease is given: *1 Year/ 2 Year/ 3 Year/ 4 Year/ 5 Year*

8. Does department regularly monitor pisciculture practices in MI tank: *Yes/ No/ Do not authorized*

9. Do you regular conduct disease surveillance programme: Yes/ No/ No such initiative taken by dept.

10. How frequent do you conduct disease surveillance: _____

11. Dominant fish species name cultivated in MI tank or local pond: 1) _____ 2) _____ 3) _____

4) _____ 5) _____ 6) _____

7) _____

12. Diseases & Medicine Use

Fish Diseases	Used Medicine/ Measures Taken
---------------	-------------------------------

Fish Diseases	Used Medicine/ Measures Taken
1	
2	
3	
4	
5	
6	
7	
8	

10. Schemes / Projects / Programs Implemented by Dept. of Fishery (Collected Progress Report / Annual Report);

11. Problem experienced during scheme/ project implementation

Problem Faced/ Issues/ Challenges	Adopted Measures	Suggestion/ Recommendation for Further Improvement
1)		
2		
3		
4		
5		

12. Discuss thoroughly on following Topic in relation with Fishery at MI tank/ pond water/ fish processing/ Fish Hatchery and obtain environmental and social issues:

Tropic	Environmental/ Social Issues	Adopted Measures
Conflict using water for Pisciculture and Irrigation		
Impact on fish from used Pesticide in agriculture		
Excess use of medicine by fisherman		
Thieving of Fish from MI pond or pond		
Involvement of Adivasi in Fishing		
Women Participation in 1) Pisciculture		
2) Fish Processing		
Pollution from Fish Hatchery		
Fish disease related issues		

Topic	Environmental/ Social Issues	Adopted Measures
Use of Icebox by fisherman		
Fish Export		
Fish feed mill		
Awareness of Fisherman on safe practice of pisciculture		

Name of Researcher:

XIII/8: Consultation with Fertilizer/ Pesticide Distributor/ Retailer

1. Consult with pesticide and fertilizer distributor/ dealer or local trader
2. Collect fertilizer and pesticide consumption details from Dept. of Agri.
3. Collect distributor/ dealer list from Agri. Dept.

1.	Unit name of distributor:						
2.	Owner name:				3. Contact Number of Owner:		
4.	Total number of authorised distributors in District?					_____ Nos	
5.	Name of authorised distributors/ dealer			Address of Dealer			
	1.						
	2.						
	3.						
	4.						
6.	Where from you purchase Pesticide?	1.			2.		
7.	Where from you purchase Fertilizer?	1.			2.		
8.	In which Blocks you are supplying/ selling Pesticide?	1.	2.	3.	4.		
9.	In which Blocks you are supplying/ selling Fertilizer?	1.	2.	3.	4.		
10.	Whom you supply/ sell pesticide/ fertilizer?	1. Farmer	2. Local shop	3. Agri- cooperative	4. FPO		
11.	How many local shops of pesticide and fertilizer are available in your locality?					_____ Nos	
12.	Where from farmers purchase Pesticide?	1. Local Dealer	2. Local shop	3. Other. (name)___			
13.	Where from farmers purchase Fertilizer?	1. Local Dealer	2. Local shop	3. Other. (name)___			
14.	Name of commonly used pesticide	Applicable Crop Name			Consumption (in Qt)		
					2017	2016	
	1.						
	2.						
	3.						
	4.						
	5.						
15.	Name of commonly used Bio - Pesticide	Applicable Crop Name			Consumption (in Qt)		
					2017	2016	
	1.						
	2.						
	3.						
	4.						
	5.						

6.				
16.	Name of commonly used Synthetic Fertilizer	Applicable Crop Name	Consumption (in Qt)	
			2017	2016
	1.			
	2.			
	3.			
	4.			
	5.			
17.	Name of commonly used Organic/ Bio Fertilizer	Applicable Crop Name	Consumption (in Qt)	
			2017	2016
	1.			
	2.			
	3.			
	4.			
	5.			
18.	Are you aware of banned pesticide?		<i>1. Yes</i>	<i>2. No</i>
19.	If yes, give some name of banned pesticide?	1	2.	
		3.	4.	
20.	How you came to know about banned pesticide?			
	<i>1. Knowledge sharing by Agri. Dept.</i>	<i>2. Attending training/ seminar on it</i>	<i>3. News Paper/ magazine</i>	<i>4. Other source (name) _____</i>
21.	Have you ever taken any training on pesticide/ fertilizer use?		<i>1. Yes</i>	<i>2. No</i>
22.	If yes, provide details of training			
	Training Tropic	Organizer	Year of Training	Place of Training
	1			
	2			
	3			
	4			
23.	Is there any instance of vermi composting in your village?		<i>1. Yes</i>	<i>2. No</i>
			<i>3. Can't Say</i>	
24.	How many vermi-composting units are there in your village?		<i>Functional: _____</i>	<i>Total: _____</i>
25.	Whether use/ consumption of organic/ bio fertilizer increasing year by year?		<i>1. Yes</i>	<i>2. No</i>
			<i>3. Can't Say</i>	
26.	Reason of nominal or non-increase of organic/ bio fertilizer use?	1.	2.	
		3.	4.	
27.	Are local farmers aware of banned pesticide?	<i>1. Few people</i>	<i>2. Many people</i>	<i>3. None</i>
				<i>4. Can't say</i>

Date:

Name of Researchers: