Form 1: Cement Nalla Bund (CNB)

	Question	Possible options for answer	Answer	Medium	Whom to ask?	Purpose
	New Construction	y/n				
	A.1 Location					
1	Lat/Long			GPS		
	A.2 Suitability					
1	Depth of nalla	Less than 1.5 m More than 1.5m		VI		Storage capacity
2	Slope of nalla bed (Should be less than 1%)	Steep/moderate/flat		VI		Main structure can fail on slope due to excess water pressure on u/s side
3	On sharp curve	y/n		VI		Erodes (scouring of sides) the side of nalla
4	Bed strata / soil type	<ol> <li>Soil</li> <li>Hard rock</li> <li>Cant found</li> <li>other</li> </ol>		VI	Govt. official	Purpose to fulfill (percolation /storage)
5	How long back water is present	i.e 10m				Appr. Storage capacity
6	Height of bandhara above bed nallah level is correct or not?	Foundation depth + Height of main body app 3m		VI		Structural stability
	A.3 Structural Soundness					

1	Dimensions of main body	Length Breadth	Tape/ laser meter	
-		Height (m)	Ineter	
2	Apron presence	y/n	VI	To avoid d/s erosion
3	Freeboard .3 m	y/n		To escape surplus water easily
4	D/S slope provided	y/n	VI	Structural stability to resist water pressure
_	Flank wall dimensions	Length	Tape/Laser	
5		Breadth Height	meter	
6	Leakages at base	Heavy/light/no/can't figure out	VI	Cracks in the concrete structure causes leakages, reduces strength and fails
7	Leakages at side	Heavy/light/no/can't figure out	VI	
8	Overall Anchorage of all parts	y/n		To carry self load and water load together
9	Silt deposition	Heavy/mild/no		Reduces water storage capacity
10	Condition of main body (only concrete/boulders/etc)	Good/mod/bad	VI	
1.1	Strength of main body	At left corner – 3	Rebound	Concrete grade (mix
11		readings at 1m (top)	hammer	proportions) defines
		(Bottom) - 3		strength of concrete
		At middle $(top) - 3$ (bottom) - 3		
		At right end (top) – 3		
		(bottom) -3		

	Strength of flank wall	Left and right	Rebound				
12	(grade of concrete mix)	Top – 3 readings	hammer				
		Bottom- 3 readings					
		Middle – 3 readings					
	excavated soil is filled with	y/n	VI		Water flow	should n	ot be
13	surrounding the embankment				disturbed and		
	Quality of concrete mix	Mix proportions y/n	VI				
14	(depend on grade)						
	Only boulders in the main	y/n					
15	body						
	Repair Work	y/n					
	Repair method	Reinforcement steel					
	1	repair,					
		Smoothing or					
		leveling of surfaces,					
		Filling of flow to					
		honeycombs or holes,					
		Damaged corners etc					
	A.4 Utility						
	Water available	y/n	VI				
1		-					
2	Water used for	DW, irrigation etc	interview	Farmer			
	Is there a well near by	y/n	interview	Govt	Recharge		
3	(number if many)			official/			
				farmer			
	Well water level increased due						
4	to CNB construction	y/n	 interview	farmer			
В	Beneficiary Interview For	m					

<b>B1</b>	Beneficiary/Far	mer Name						
	Plot Details							
	Plot No		Plot Size (in acers)				Distance from CNB	
	Rain fed/ Irrigated		Single Crop/ Double Crop					
	Cropping Detail	ls						
	Year	Rabi (	Crop	Yield		K	harif Crop	Yield
	2013							
	2014							
	2015							
	2016		T					
<b>B2</b>	Beneficiary/Far	mer Name						
	<b>Plot Details</b>							
	Plot No		Plot Size (in acers)				Distance from CNB	
	Rain fed/ Irrigated		Single Crop Double Crop					
	Cropping Detail	ls						

	Year	Rabi Cro	p	Yield	K	Charif Crop	Yield
	2013						
	2014						
	2015						
	2016						
В3	Beneficiary/Far	mer Name					
	Plot Details						
	Plot No		Plot Size in acers)			Distance from CNB	
	Rain fed/ Irrigated	S	Single Crop Double Cro				
	Cropping Detail	s					
	Year	Rabi Cro	p	Yield	K	Charif Crop	Yield
	2013						
	2014						
	2015						
	2016						

<b>B4</b>	Beneficiary/Far	rmer Name				
	<b>Plot Details</b>					
	Plot No		Plot Size (in acers)		Distance from CNB	
	Rain fed/		Single Crop			
	Irrigated		Double Crop	)		
	Cropping Details					
	Year	Rabi C	Crop	Yield	Kharif Crop	Yield
	2013					
	2014					
	2015					
	2016					

## Form 2: Earthen Nalla Bund

Question			Possible options for answer	Answer	Medium	Whom to ask?	Purpose
	A.1 Location	n					
Lat/Long					GPS		
	A.2 Suitabil	ity					
Gully slop	pe less than						
-	us soil strata ne soil or clay	Y/n			VI		Earthen material to stabilize the structure
Across the	e nalla slope	y/n			VI		To obstruct water flow and store it
Back water	er spread	y/n			VI		Water should not enter into farms
	A.3 Structu	ral sou	ndness				
Cross sectoral trapezoida		y/n			VI		Stable shape
Earth wor							Foundation
Freeboard	1	y/n					Excess water to flow without damage
Core secti		y/n			VI		To prevent seepage through main body
Dimensio		Length Breadt			Tape		•

		Depth					
	compaction	Good/ba	ad/mod		VI		
	Pitching on u/s	y/n			VI		Protect u/s side from erosion and seepage
	COT	Y/N			VI		Collect Seepage water
	Rock toe	y/n			VI		Drain water to outside of structure
	D/s side cushion chamber	1			VI		
	A.4 U	Itility	·		·		
	Water present to which month  Is there a well	ill Name o	f month		interview	farmer	
	near to ENB (n if many)	number y/n	y/n		interview farm	farmer	
	Well water include to ENB construction	reased y/n			interview	farmer	
В	Beneficiary	Interview Forn	1				
B1	Beneficiary/	Farmer Name					
	<b>Plot Details</b>						
	Plot No		Plot Size (in acers)		Dis EN	tance from	om

	Rain fed/ Irrigated		Single Cro Double C	_			
	Cropping Detai	ls					
	Year	Rabi (	Crop	Yield	Kl	narif Crop	Yield
	2013						
	2014						
	2015						
	2016						
<b>B2</b>	Beneficiary/Far	mer Name					
	Plot Details						
	Plot No		Plot Size (in acers)			Distance from ENB	1
	Rain fed/ Irrigated		Single Cro Double C	_			
	Cropping Detai	ls		1			
	Year	Rabi (	Crop	Yield	Kl	narif Crop	Yield
	2013						
	2014						

	2015						
	2016		1				
В3	Beneficiary/I	Farmer Name					
	<b>Plot Details</b>						
	Plot No		Plot Size			Distance from	
			(in acers)			ENB	
	Rain fed/		Single Crop	<b>o</b> /			
	Irrigated		Double Cro				
	Cropping De	tails		T			
	Year	Rabi C	rop	Yield	ŀ	Kharif Crop	Yield
	2013						
	2014						
	2015						
	2016						
<b>B4</b>	Beneficiary/I	Farmer Name					
	<b>Plot Details</b>						
	Plot No		Plot Size			Distance from	
			(in acers)		]	ENB	

Rain fed/	Single (Double	Crop/		
Irrigated	Double	Crop		
<b>Cropping Detail</b>	ls			
Year	Rabi Crop	Yield	Kharif Crop	Yield
2013				
2014				
2015				
2016				

## Form 2: Farm Pond

	Question		Possible options	Answer	Medium	Whom to	Purpose
			for answer			ask?	
		A.1 Location	n				
	Lat/Long				GPS		
	A.2 Suitabil		ity				
1	Pond location in farm		Flat/ hilly/ corner or edge		VI		Rainfall can damage the pond and silt deposits
2	2 Built in nalla		y/n		VI		Flows away with rainwater

		Percolation /								
3	Purpose of pond	storage								
	Pond elevation than	Higher / lower/								
4	nearest stream	same								
	A.3 Struct									
		Length:								
		Breadth:	Tape/ laser							
1	Dimensions	Depth:	meter							
2	Berm present	y/n	VI	Avoid breaching of bund						
3	Plastic cover	y/n	VI	To avoid draining of water						
4	Bund	y/n	VI							
5	Inlet provided	y/n	VI	allow water to enter into pond						
6	Outlet provided	y/n	VI	Allow water to drain						
7	Position of inlet	Correct/ incorrect	VI	At higher elevation in the flow direction						
	Correct location of			On the bund side but not on the way						
0	excavated soil	/	VI	from which water is coming into pond. Avoid on nalla side						
8	deposition  Maintained Slane of	y/n	VI							
9	Maintained Slope of pond sides	y/n		To protect the sides of pond to slide down into the pond.						
	Police States	J' **		government and politic						
10	Soil compacted	y/n		Overall stability of pond						
				Sides sag down into pit and erodes						
11	Pitching or revetment	y/n		sides						
A.4 Utility										

	Water present till which									
1	month	Name of month	int	erview	farmer	To analyze Water	· availahility			
	Is there a well near to	Traine of monen		.01 110 11	Turrior	10 unary 20 Water	- uvuiluoility			
2	pond (number if many)	y/n		interview farmer		Well recharge purpose				
	Well water level	1 31				wen reeninge purpose				
	increased due to pond									
3	construction	y/n	int	terview farmer						
В	Beneficiary Interview Form									
<b>B1</b>	Beneficiary/Farmer Name									
	Plot Details									
	Plot No		Plot Size							
			(in acers)							
	Rain fed/	Single Cr								
	Irrigated		Double Crop							
	Cropping Details									
	Year	Rabi Crop	Yield	Khari	f Crop	Yield	Summer, if any			
	2013									
	2014									
	2015									
	2016									