

**UNIT COST FOR
FARM SECTOR ACTIVITIES
FOR GUJARAT STATE
FOR THE YEAR 2018-19**



**National Bank for Agriculture and Rural Development
Gujarat Regional Office, Ahmedabad**

1 Water Resources - Minor Irrigation

I. Block-wise categorisation of overexploited, critical, semi-critical and saline blocks - Gujarat

As per GoI methodology adopted for the assessment, for the purpose of categorisation, long term water table movement trends (Pre and Post Monsoon) are considered. As per Central Ground Water Board's latest available data for West Central Region, November 2013, the details of block wise categorisation of overexploited, critical, semi-critical and saline are as under.

Sr. No.	District #	Overexploited (> 100%)	Critical 90% to 100%	Semi-critical 70% to 90%	Saline
1	Ahmedabad	Daskroi,	Dholka	Detroj-Rampura, Viramgam,	Dhandhuka
2	Amreli	--	--	Khambha	--
3	Banaskantha	Tiharad, Dhanera, Deodar, Kankrej, Palanpur, Vadgam	Deesa, Amirgadh	Danta	Vav, Bhabhar
4	Gandhingar	Mansa, Kalol, Gandhinagar, Dehgam	--	--	--
5	Kutch	Bhachau, Mandvi	Anjar, Bhuj	Nakhtrana	Gandhidham
6	Kheda	--	--	Kapadvanj, Kathlal, Mehmedabad	--
7	Mehsana	Satlasana, Kheralu, Visnagar, Unjha, Vijapur, Mehsana, Becharaji, Kadi	Vadnagar	--	
8	Patan	Patan, Sidhpur, Chanasma	--	--	Harji, Sami, Radhanpur, Santalpur
9	Porbandar	--		Porbandar	
10	Rajkot	--	--	--	Malaya
11	Sabarkantha	--	--	Idar, Prantij, Talod, Vadali	--
12	Surendranagar	--	--	--	Lakhtar
13	Vadodara	--	--	Karjan, Sinor	--

Districts having all 'Safe blocks' not mentioned in the list. (e.g. Anand, Bharuch, Bhavnagar, Dahod, Dang, Jamnagar, Junagadh, Narmada, Navsari, Panchmahal, Surat, Tapi and Valsad). Also the 'Safe blocks' are not mentioned in the list.

Restrictions of CGWA/ CGWB on new MI investments are to be adhered to wherever applicable from time to time. Blocks categorised as sage or semi critical should only be considered for the purpose of financing under MI investment. However, Drip/ Sprinkler/ Under Ground Pipeline/ Rain Water Harvesting Structures to be financed in all blocks. In case of over exploited/ critical blocks, the banks have to ensure that pump set of the same type and HP is financed in the pockets identified after a micro level survey by State Govt.

II Estimate for Shallow Tube Well - Depth 75 meters

Description: Construction of 162 mm Dia and 75 Mtrs Depth Tube well by DTH Rig in Hard rock formation viz. Granite, Basalt, Quartz etc. inclusive of Air Compressor.

No.	Qty.	Unit	Item	Rate per Unit in Rs.	Add 1% Labour	Amount Rs.
1	2	3	4	5	6	7 (2 x 6)
A			Drilling by DTH rig in Hard, rocky formation viz. Granite, Basalt, Quartz etc. inclusive of Air Comp.			
		[1]	Drilling in overburden 400 mm dia			
	6	mtr	0.00 to 6.00 mtr	769.00	776.69	4660.14
		[2]	Drilling by DTH rig in Hard rocky Formation 162 mm dia (61/2")			
	54	mtr	6.00 to 60.00 mtr	332.00	335.32	18107.28
	60	mtr	60.00 to 75.00 mtr	84.75	84.85	5091.00
B			Casing, pipe fitting and lowering			
	7	mtr	0.00 to 6.00 meters (220 Dia pipe) + (1 Mtr A.G.L per Tw)	5.44	5.49	38.43
	1	Job	Cement Grouting	600.00	606.00	606.00
	5	Hrs	Pump Test	1516.00	1531.16	7655.80
C			Material			
	7	Mtr	220 m.m. N.B.M.S. plain pipe (5.4 mm)	1630.00	1646.00	11524.00
	1	No	Inverted Reducer 220/273 mm dia (350 mm)length &5.40 mm thickness	1650.00	1667.00	1666.50
D			Miscellaneous			
	1	No	M.S. Well Top suitable for 220 mm (8") dia O.D	680.00	687.00	686.80
	1	No	M.S. Coupling 220 mm O.D. Pipe 150*10mm (Length*Wall Thickness)	1160.00	1171.60	1171.60
	1	No	M.S. Clamp 220 mm O.D. pipe 700 mm *100mm * 16 mm (Length* Thicknes*Width)	1525.00	1540.25	1540.25
	0	No	M.S. Pipe support (Chapla) for 220 mm dia N.B. Pipe 150*100*8 mm	64.00	64.64	64.64
E	1	Job	Transportation Charges	8500.00		8500.00
F	1	Job	Cost of Chemical Analysis			1300.00
			Total Rs.			62,547.80
			ADD : 17.85% Contingency/Overhead Charges			11,164.78
			Total			73,712.58
			(Say)			75,000.00

III-A Estimate for Shallow Tube Well - Depth 150 meters

Description : Construction of 162 mm Dia and 150 Mtrs Depth Tube well by DTH Rig in Hard rock formation viz. Granite, Basalt, Quartz etc. inclusive of Air Compressor

No.	Qty.	Unit	Item	Rate per Unit in Rs.	Add 1% Labour	Amount in Rs
1	2	3	4	5	6	7 (2 x 6)
A			Drilling by DTH rig in Hard, rocky formation viz. Granite, Basalt, Quartz etc. inclusive of Air Comp.			
		[1]	Drilling in overburden 400 mm dia			
	6	mtr	0.00 to 6.00 mtr	769.00	776.69	4660.14
		[2]	Drilling by DTH rig in Hard rocky Formation 162 mm dia (61/2")			
	54	mtr	6.00 to 60.00 mtr	332.00	335.32	18107.28
	60	mtr	60.00 to 120.00 mtr	339.00	342.39	20543.40
	30	mtr	120.00 to 150.00 mtr	356.00	359.56	10,786.80
B			Casing, pipe fitting and lowering			
	7	mtr	0.00 to 6.00 meters (220 Dia pipe) + (1 Mtr A.G.L per Tw)	3.10	3.13	21.91
	1	Job	Cement Grouting	600.00	606.00	606.00
	5	Hrs	Pump Test	1516.00	1531.16	7655.80
C			Material			
	7			1630.00	1646.00	11524.00
		Mtr	220 m.m. N.B.M.S. plain pipe (5.4 mm)			
	1	No	Inverted Reducer 220/273 mm dia (350 mm)length & 5.40 mm thickness	1650.00	1667.00	1666.50
D			Miscellaneous			
	1	No	M.S. Well Top suitable for 220 mm (8") dia O.D	680.00	687.00	686.80
	1	No	M.S. Coupling 220 mm O.D. Pipe 150*10mm (Length*Wall Thickness)	1160.00	1171.60	1171.60
	1	No	M.S. Clamp 220 mm O.D. pipe 700 mm *100mm * 16 mm (Length* Thicknes*Width)	1525	1540.25	1,540.25
	0	No	M.S. Pipe support (Chapla) for 220 mm dia N.B. Pipe 150*100*8 mm	64	64.64	64.64
E	1	Job	Transportation Charges	8500		8,500.00
F	1	Job	Cost of Chemical Analysis			1300
			Total Rs.			88,770.48
			ADD : 17.85% Contingency/Overhead Charges			1,5845.55
			Total			1,0,4616.03
			(Say)			1,05,000.00

III-B Estimate for Shallow Tube Well - Depth 150 meters in Alluvial Area

No	Item	Rate per Unit (Rs.)	Total Cost (Rs.)
1	Drilling Charges - 150 m	500.00	75,000.00
2	Casing Pipe - 35m	1,100.00	38,500.00
3	Labour Charges for casing, well development, gravel packing etc. (LS)		32,000.00
	Total		1,45,500.00

IV Cost of Pumpset

Shallow tube well

Sr. No.	Capacity (HP)	Diameter of Pump	Cost (Rs.)
1	7	6"	33333
2	12.5	6"	45120
3	15	6"	44172
4	25	6"	56369

Deep tube well

Sr. No.	Capacity (HP)	Diameter of Pump	Cost (Rs.)
1	35	6"	90290
2	60	6"	134322
3	75	6"	160410

V Estimate for Deep Tube Well - Depth 240 meters with M.S. Slotted Pipe

Description: Drilling by Direct Rotary method in all types of stratas except Hard, Soft Rocky formation and gravel & boulder formation including pipe lowering, gravel packing, air compressor and Pump testing satisfactory.

Quantity	Item	Diameter of Holes	Rate in Rs/ Mtr.	Amount in Rs.
	From..... to			
	(A) Drilling			
60 Mtr	0 to 60 meters	400 m.m dia.	925.00	55,500.00
60 Mtr	61 to 120 meters	400 m.m dia.	816.00	48,960.00
60 Mtr	121 to 180 metres	400 m.m dia.	787.00	47,220.00
60 Mtr	181 to 240 meters	400 m.m dia.	795.00	47,700.00
	(B) Lowering of Pipe			
60 Mtr	0 to 60 meters 200 m.m dia.		6.84	410.40
	61 to 120 meters 200 m.m dia.		9.88	592.80
	121 to 180 meters 200 m.m dia.		16.16	969.60
	181 to 240 meters 200 m.m dia.		21.49	1,289.40
	(C) Gravel			
27 CMT	Gravel		2,032.00	54,864.00
27 CMT	Gravel Packing		149.00	4,023.00
10 Hrs	(D) Air Compressor		2,827.00	28,270.00
15 Hrs	(E) Pump Test		1,743.00	26,145.00
	(F) Cost of materials			
160 Mtr	220 m.m M.S. Plain pipe		1,608.00	2,57,280.00
80 Mtr	220 m.m M.S. Slotted pipes (1/8)"		1,752.00	1,40,160.00
1 Set	Cost of pipe accessories :		L.S	20,000.00
1 Job	(G) Cost of Electro Logging		L.S	15,000.00
1 Job	(H) Cost of Chemical Analysis		L.S	10,000.00
			Total :	7,58,384.20
			Say:	7,60,000.00

VI Estimate for Deep Tube Well - Depth 240 meters with PVC Pipe

Description: Drilling by Direct Rotary method in all types of strata except Hard, Soft Rocky formation and gravel & boulder formation including pipe lowering, gravel packing, air compressor and Pump testing satisfactory

Quantity	Item	Diameter of Holes	Rate in Rs./Mtr	Amount in Rs.
	From..... to			
	(A) Drilling			
60 Mtr	0 to 60 meters	400 m.m dia.	925.00	55,500.00
60 Mtr	61 to 120 meters	400 m.m dia.	816.00	48,960.00
60 Mtr	121 to 180 metres	400 m.m dia.	787.00	47,220.00
60 Mtr	181 to 240 meters	400 m.m dia.	795.00	47,700.00
	(B) Lowering of Pipe			
60 Mtr	0 to 60 meters	200 m.m dia.	6.84	410.40
	61 to 120 meters	200 m.m dia.	9.88	592.80
	121 to 180 meters	200 m.m dia.	16.16	969.60
	181 to 240 meters	200 m.m dia.	21.49	1,289.40
	(C) Gravel			
27 CMT	Gravel		2,032.00	54,864.00
27 CMT	Gravel Packing		149.00	4,023.00
10 Hrs	(D) Air Compressor		2,827.00	28,270.00
15 Hrs	(E) Pump Test		1,743.00	26,145.00
	(F) Cost of materials			
160 Mtr	220 m.m M.S. Plain pipe		1,001.00	16,01,600.00
80 Mtr	220 m.m M.S. Slotted pipes (1/8)"		1,150.00	92,000.00
1 Set	Cost of pipe accessories :		L.S	20,000.00
1 Job	(G) Cost of Electro Logging		L.S	15,000.00
1 Job	(H) Cost of Chemical Analysis		L.S	10,000.00
			Total :	6,13,104.20
			Say	6,15,000.00

VII Unit Cost of Dug Well in Alluvial Region (2.5m X 20 m)

Sr. No	Qty	Unit	Item	Rate per Unit (Cu.m)	Amount Rs.
1			Excavation for well in top soils including removing and spreading the excavated stuff as directed with lead upto 50 mt.		
2	13.5	Cum.	For depth 0.00-1.50mt.	126	1,701.00
	13.5	Cum.	For depth 1.50-3.0mt.	138	1,863.00
	12	Cum.	For depth 3.00-4.50mt.	153	1,836.00
	12	Cum.	For depth 4.50-6.0mt.	169	2,028.00
	10.5	Cum.	For depth 6.00-7.50mt	187	1,964.00
	10.5	Cum.	For depth 7.50-9.00mt	207	2,174.00
	9	Cum.	For depth 9.00-10.50mt	229	2,061.00
	9	Cum.	For depth 10.5-12mt	255	2,295.00
	7.5	Cum.	For depth 12-13.50mt	280	2,100.00
	7.5	Cum.	For depth 13.50 to 15mt	305	2,288.00
	6	Cum.	For depth 15-16.50mt	330	1,980.00
	6	Cum.	For depth 16.50-18mt	350	2,100.00
	4.5	Cum.	For depth 18-19.50mt	371	1,670.00
	1.25	Cum.	For depth 19.50-20 mt	391	489.00
	97.5	Cum.	Brick masonry in cement mortar 1:4 for Parapet Wall above ground level upto 0.70 mt complete.	1150	1,12,125.00
3		L.S.	Dewatering		6,000.00
				Total	1,44,674.00
				Say	1,45,000.00

VIII Unit Cost of Dug Well in Hard Rock areas of Saurashtra Region (4m X 20 m Dimension)

Sr. No.	Qty	Unit	Item	Rate per Unit (Cu.m)	Amount Rs.
1			Excavation for well in all soils including hard murrum and removing and spreading the excavated stuff as directed with lead upto 50 mt.		
	29.44	Cum.	For depth 0.00-1.50mt.	649	19,106.00
	29.44	Cum.	For depth 1.50-3.0mt.	665	19,578.00
2			Excavation for well in disintegrated rock or soft rock including removing and spreading the excavated stuff as directed with lead upto 90 mt.		
	18.84	Cum.	For depth 3.00-4.50mt.	680	12,811.00
	18.84	Cum.	For depth 4.50-6.0mt.	696	13,113.00
	18.84	Cum.	For depth 6.00-7.50mt	714	13,452.00
	18.84	Cum.	For depth 7.50-9.00mt	736	13,866.00
	18.84	Cum.	For depth 9.00-10.50mt	767	14,450.00
	18.84		For depth 10.5-12mt	799	15,053.00
	18.84		For depth 12-13.50mt	831	15,656.00
	18.84		For depth 13.50 to 15mt	864	16,278.00
	18.84		For depth 15-16.50mt	896	16,881.00
	18.84		For depth 16.50-18mt	928	17,484.00
	18.84	Cum.	For depth 18-19.50mt	961	18,105.00
	6.28	Cum.	For depth 19.50-20 mt	166	1,042.00
3			Uncoursed rubble masonry with hard stone of approved quality in cement mortar 1:6 (1 cement and 6 course sand) for well staining above ground level upto 0.70 mt complet.		
	5	Cum.	upto 1.50 mt above or below G.L.	1250	6,250.00
	5	Cum.	For depth 1.50-3.0mt.	1350	6,750.00
	3.34	Cum.	Parapet Wall Construction (1mtr.AGL.)	1160	3,874.00
			Use of 20% usable material available from excavate of hard rock.	140	3,400.00
			Dewatering		5,000.00
			TOTAL		2,32,150.00
			SAY		2,32,000.00

IX Unit Cost of Dug Well in Hard Rock areas of South Gujarat Region (4m X15m Dimension)

Sr. No.	Qty	Unit	Item	Rate per Unit (Cu.m)	Amount Rs.
1			Excavation for well in all soils including hard murrum and removing and spreading the excavated stuff as directed with lead upto 50 mt.		
	29.44	Cum.	For depth 0.00-1.50mt.	649	19,107.00
	29.44	Cum.	For depth 1.50-3.0mt.	665	19,578.00
2			Excavation for well in disintegrated rock or soft rock including removing and spreading the excavated stuff as directed with lead upto 90 mt.		
	18.84	Cum.	For depth 3.00-4.50mt.	680	12,811.00
	18.84	Cum.	For depth 4.50-6.0mt.	696	13,113.00
	18.84	Cum.	For depth 6.00-7.50mt	714	13,452.00
	18.84	Cum.	For depth 7.50-9.00mt	736	13,866.00
	18.84	Cum.	For depth 9.00-10.50mt	767	14,450.00
	18.84	Cum.	For depth 10.5-12mt	799	15,053.00
	18.84	Cum.	For depth 12-13.50mt	831	15,656.00
	18.84	Cum.	For depth 13.50 to 15mt	864	16,278.00
3			Uncoursed rubble masonry with hard stone of approved quality in cement mortar 1 :6 (1 cement and 6 course sand) for well staining above ground level upto 0.70 mt complet.		
	5	Cum.	upto 1.50 mt above or below G.L.	1825	9,125.00
	5	Cum.	For depth 1.50-3.0mt.	1925	9,625.00
	3.34	Cum.	Parapet Wall Construction (1mtr.AGL.)	1700	5,678.00
			Use of 20% usable material available from excavate of hard rock	140	3,375.00
			Dewatering		4,700.00
			TOTAL		1,85,866.00
			SAY		1,85,000.00

X Drip Irrigation System

A 1. Hectare plot with plant spacing 6 x 6 Meter

Sr. No.	Item	Qty.	Amount Rs.
1	PVC pipe 63mm dia (4kg/cm.sq.)	54 mtr	2,392.00
2	PVC pipe 50mm dia (6kg/cm.sq.)	102 mtr	4,226.00
3	LLDPE lateral 16mm dia	1760 mtr	13,200.00
4	Dripper 4/8 LPH	1150 No.	3,508.00
5	Micro Tube 6mm dia	890 mtr	3,578.00
6	Control Valve	1 No.	1,260.00
7	Flush valve	1 No.	145.00
8	Ventury	1 Set	2,757.00
9	Screen filter 10m.cube/Hr.	1 No.	1,922.00
10	By pass assembly	1 No.	1,556.00
			34,544.00
	Fitting & accessories 10%		3,454.00
		G. Total	37,998.00
		Say :	38,000.00

Note: Above Prices are exclusive of GST/ other taxes wherever applicable (Service Tax, VAT removed on introduction of GST w.e.f. 01.07.2017)

The above mentioned material requirement is indicative and is subject to variation depending upon the size and shape of the field.

Drip Irrigation System**B 1. Hectare plot with different plant spacing (Lateral size 12 mm) (Excluding Sump Cost)**

Sr. No	Plant Spacing (Metres)	Total Cost (Rs.)
1	12x12	17361.00
2	10x10	18659.00
3	9x9	19487.00
4	8x8	24378.00
5	6x6	28159.00
6	5x5	30329.00
7	4x4	30710.00
8	3x3	36791.00
9	2.5x06	49287.00
10	2x0.6	56905.00
11	1.8x0.6	61390.00
12	1.5x0.6	69733.00
13	1.2x0.6	83565.00
14	1x0.6	99689.00

Drip Irrigation System**C 1. Hectare plot with different plant spacing (Lateral size 16 mm) (Excluding Sump Cost)**

S N	Plant Spacing (Metres)	Total Cost (Rs.)
1	12x12	19384.00
2	10x10	21085.00
3	9x9	22191.00
4	8x8	27412.00
5	6x6	32204.00
6	5x5	35195.00
7	4x4	36777.00
8	3x3	44881.00
9	2.5x06	57581.00
10	2x0.6	67277.00
11	1.8x0.6	73054.00
12	1.5x0.6	83596.00
13	1.2x0.6	100860.00
14	1x0.6	120459.00

Unit Cost for Mini (Impact) Sprinkler Irrigation System**D 1. Hectare plot with different plant spacing (Lateral size 25 mm) (Excluding Sump Cost)**

S N	Plant Spacing (Metres)	Total Cost (Rs.)
1	11x11	49718.00
2	10x10	54186.00
3	9x9	61313.00
4	8x8	65833.00
5	7.5x7.5	73414.00

E 1. Hectare plot with different plant spacing (Lateral size 32 mm) (Excluding Sump Cost)

Sr. N	Plant Spacing (Metres)	Total Cost (Rs.)
1	11x11	55285.00
2	10x10	60307.00
3	9x9	68111.00
4	8x8	73478.00
5	7.5x7.5	81568.00

F Porous pipe based Micro Irrigation System**1. Hectare plot with different plant spacing (Lateral size 9 mm) (Excluding Sump Cost)**

S N	Plant Spacing (Metres)	Total Cost (Rs.)
1	12x12 and above	31922.00
2	10x10	34334.00
3	9x9	36709.00
4	8x8	38208.00
5	6x6	44681.00
6	5x5	50038.00
7	4x4	51752.00
8	3x3	70987.00
9	2.5x0.6	62074.00
10	2x0.6	72667.00
11	1.8x0.6	78501.00
12	1.5x0.6	90409.00
13	1.2x0.6	108088.00
14	1x0.6	125869.00

G Porous pipe based Micro Irrigation System (Excluding Sump Cost)

Sr. No	Plant Spacing (Metres)	Total Cost (Rs.)
1	12x12	33707.00
2	10x10	36461.00
3	9x9	38457.00
4	8x8	40867.00
5	6x6	48220.00
6	5x5	54308.00
7	4x4	55712.00
8	3x3	77782.00
9	2.5x06	69839.00
10	2x0.6	82373.00
11	1.8x0.6	89284.00
12	1.5x0.6	103351.00
13	1.2x0.6	124265.00
14	1x0.6	145281.00

H Porous pipe based Micro Irrigation System

1. Hectare plot with different plant spacing (Lateral size 16 mm) (Excluding Sump Cost)

Sr. No	Plant Spacing (Metres)	Total Cost (Rs.)
1	12x12	37235.00
2	10x10	40561.00
3	9x9	42958.00
4	8x8	45891.00
5	6x6	54763.00
6	5x5	62075.00
7	4x4	64504.00
8	3x3	90212.00
9	2.5x06	77918.00
10	2x0.6	92353.00
11	1.8x0.6	100319.00
12	1.5x0.6	116499.00
13	1.2x0.6	140579.00
14	1x0.6	164764.00

I Porous pipe based Micro Irrigation System

1. Hectare plot with different plant spacing (Lateral size 22 mm) (Excluding Sump Cost)

Sr. No	Plant Spacing (Metres)	Total Cost (Rs.)
1	12x12 & above	40901.00
2	10x10	44930.00
3	9x9	47844.00
4	8x8	51358.00
5	6x6	62061.00
6	5x5	70848.00
7	4x4	72643.00
8	3x3	104171.00
9	2.5x0.6	93872.00
10	2x0.6	112295.00
11	1.8x0.6	122471.00
12	1.5x0.6	143090.00
13	1.2x0.6	173813.00
14	1x0.6	204648.00

Note: In some cases, the location of water source (Bore well/ Open well) is found to be far away from the field to be irrigated. Due to this, requirement of PVC/ HDPE pipe or selection of components from within the approved list with variable dimensions or components other than considered for working out unit cost per ha may be needed consequently exceeding the above unit cost.

J. Sprinkler Irrigation

Sr. No.	Item	Total Cost (Rs.)
1	HDPE Pipe coupler size 63 mm.	
	Area	
i	0.4 ha.	10759.00
ii	1 ha.	17479.00
iii	2 ha.	25066.00
2	HDPE Pipe coupler size 75 mm.	
	Area	
i	1 ha.	18709.00
ii	2 ha.	26730.00
3	HDPE Pipe coupler size 90 mm.	
	Area	
i	3 ha.	32212.00
ii	4 ha.	40587.00
iii	5 ha.	45562.00

Sr. No.	Item	Total Cost (Rs.)
4	Rain Gun Sprinkler Set- Coupler size 63 mm.	
	Area	
i	1 ha.	17742.00
5	Rain Gun Sprinkler Set- Coupler size 75 mm.	
	Area	
i	1 ha.	18848.00
ii	2 ha.	23061.00
6	Rain Gun Sprinkler Set coupler size 90 mm.	
	Area	
i	3 ha.	33839.00
ii	4 ha.	38151.00
iii	5 ha.	43021.00

2 Land Development

Sr. No.	Activity	Unit/ Dimension	Total Cost (Rs.)
1	LD (Levelling/ Bunding/Grading)	Hectare	11660
2	OFD (Land levelling/ bunding/ grading/ drainage/ trench)	Hectare	13800 to 17500
3	Farm Pond/water harvesting structure (unlined ponds)	20x20x1.5 mts.	35000 to 40800
4	Silt application	Hectare	13800
5	Field Channel lining (generally 50 to 75 mts.)	Hectare	17500
6	Land reclamation	Hectare	25400 to 29200
7	Wire Fencing		
i	Regular Model (5ft.)	Meter	265 per m.
ii	Protection model (8 ft. - for protection against Nilgai/wild animals)	Meter	425 per m.

3 Farm Mechanisation :

Sr. No.	Activity	Total Cost (Rs.)
I	Manually operated Implements	
i)	Weeder	2,500.00
ii)	Seed Drill	3,500.00
iii)	Paddy Transplanter	5,800.00
iv)	Paddy Thresher	4,800.00
v)	Fertilizer Broadcaster	2,900.00
vi)	Seed Dressing Drum	5,300.00
II	Animal Driven Implements -	
i)	MB Plough	7,500.00
ii)	Disc Plough	9,600.00

3 Farm Mechanisation :

Sr. No.	Activity	Total Cost (Rs.)
iii)	Cultivator	15,300.00
iv)	Paddy Puddler	5,800.00
v)	Seed drill	11,400.00
vi)	Seed cum Cultivator Drill	17,400.00
vii)	Seed cum Fertilizer Planter	17,400.00
viii)	Potato digger	11,400.00
ix)	Multi-tool carrier	13,200.00
III	Power operated implements -	
i)	MB Plough	47,900.00
ii)	Disc Plough	67,100.00
iii)	Harrow	17,400.00
iv)	Cultivator	47,900.00
v)	Rotavator	1,24,900.00
vi)	Leveller	32,700.00
vii)	Laser leveller	9,07,500.00
viii)	Ridge & Furrow maker	47,900.00
ix)	Seed Drill	53,900.00
x)	Seed cum Cultivator/Drill Planter	57,500.00
xi)	Potato planter	75,500.00
xii)	Sugarcane Planter	84,700.00
xiii)	Vegetable transplanter	86,200.00
xiv)	Paddy Transplanter	4,84,000.00
xv)	Power Weeder	1,14,900.00
xvi)	Aero Blast Sprayer	2,39,800.00
xvii)	Straw Reaper	1,10,000.00
xviii)	Reaper Binder	1,62,100.00
xix)	Thresher	1,73,600.00
xx)	Power Tiller	2,66,200.00
xxi)	Tractor upto 20 HP	3,30,000.00
xxii)	Tractor 21 HP to 30 HP	6,05,000.00
xxiii)	Tractor 31 HP to 40 HP	7,15,000.00
xxiv)	Tractor 41 HP to 50 HP	7,70,000.00
xxv)	Tractor > 50 HP	11,00,000.00

4. Plantation and Horticulture (Normal spacing)

Sr. No.	Activity	Plant Spacing (Mtr.)	Unit (Area)	Unit Cost (Rs.)
i)	Mango	10 x 10	1 ha.	89000.00
	Mango	7.5 x 7.5	1 ha.	149000.00
	Mango (HD)	5 x 5	1 ha.	217000.00
	Mango (HD)	3 x 2	1 ha.	291000.00
ii)	Pomegranate	5 x 5	1 ha.	144000.00
	Pomegranate (HD)	4 x 3.5	1 ha.	240000.00
	Pomegranate (HD)	5 x 2.5	1 ha.	253000.00
	Pomegranate (UHD)	3 x 2	1 ha.	376000.00
iii)	Guava	6 x 6	1 ha.	72240.00
	Guava	3 x 6	1 ha.	110050.00
	Guava	3 x 3	1 ha.	131730.00
	Guava	1.5 x 3	1 ha.	170060.00
	Guava	1 x 2	1 ha.	258400.00
iv)	Date Palm	9 x 9	1 ha.	640000.00
v)	Sapota	10 x 10	1 ha.	90000.00
vi)	Aonla	4 x 5	1 ha.	90000.00
vii)	Coconut	6 x 6	1 ha.	128000.00
viii)	Lime	3 x 3	1 ha.	145000.00
ix)	Custard Apple	5 x 5	1 ha.	114000.00

5. Green House Structure - Naturally ventilated system

Sr. No.	Activity (Area 1 Ha.)	Unit (Area)	Unit Cost (Rs.)
(a)	Tubular Structure		
i)	upto 500 sq. mtr.	1 sq. mtr.	1,060.00
ii)	> 500 upto 1008 sq. mtr.	1 sq. mtr.	935.00
(b)	Wooden Structure	1 sq. mtr.	540.00
(c)	Shade Net House		
i)	Tubular Structure	1 sq. mtr.	710.00
ii)	Wooden Structure	1 sq. mtr.	492.00

6. Floriculture

Sr. No.	Activity	Unit (Area)	Unit Cost (Rs.)
i)	Cut flowers	1 ha.	1,00,000.00
ii)	Bulbulous flowers	1 ha.	1,50,000.00
iii)	Loose Flowers	1 ha.	40,000.00

7 Forestry

Sr. No.	Activity	Plant Spacing (Mtr.)	Unit (Area)	Unit Cost (Rs.)
i)	Bamboo (1 ha.)	5 x 5	1 ha.	42,700.00
ii)	Jatropha	2 x 2	1 ha.	71,000.00
iii)	Teak	2 x 2	1 ha.	1,33,650.00

8 Animal Husbandry

Sr. No.	Activity	Unit	Unit cost 2017-18
5	Animal Husbandry		
A)	Milch Animals		
1	Jaffrabadi buffaloes	2 animal	1,40,000.00
2	Mehsani buffaloes	2 animal	1,30,000.00
3	Gir cows	2 animal	1,20,000.00
4	Jersey cross - breed cows	2 animal	91,000.00
5	HF cross-breed cows	2 animal	1,20,000.00
6	Surti buffaloes	2 animal	80,000.00
7	Banni buffaloes	2 animal	1,40,000.00
8	Sheep	20+1	75,000.00
9	Goat	10+1	45,000.00
B)	Draught Animals		
1	Gir Bullock	2 animal	35,000.00
2	Kankrej Cow	2 animal	80,000.00
3	Kankrej Bullock	2 animal	60,000.00
4	Non-descript Cows	2 animal	40,000.00
5	Non-descript Buffalo	2 animal	80,000.00
6	Camel	1 animal	35,000 to 50,000
C)	Poultry		
1	Rhode Island Red (RIR) structure	25 Birds	6,000.00
2	Broiler Structure	100 Birds	36,000.00

9 Fisheries :

Sr. No.	Activity	Unit	Cost (Rs.)
1	Fibre glass boat	1 No.	5,00,000.00
2	Brackish water farming	1 Hectare	15,00,000.00
3	Brackish water farming	0.5 Hectare	8,00,000.00
4	2 stroke Engine (upto 10 HP)	1 No.	1,20,000.00
5	4 stroke Engine (upto 10 HP)	1 No	1,50,000.00
6	New pond	1 Ha.	7,00,000.00
7	Renovation of old pond	1 Ha.	3,50,000.00
8	Solar fish dryer (Small)	1 No.	1,50,000.00
9	Solar fish dryer (Big)	1 No.	20,00,000.00
10	Flake Ice Slurry	1 No.	10,00,000.00
11	Generator set with flash light	1 No.	40,000.00
12	Insulated fish box	1 No.	18,000.00
13	Rearing Space Development	1 Ha.	6,00,000.00
14	Construction of New Pond for Shrimp farming	1 Ha.	6,00,000.00
15	Polythene Liner (0.5 micron width)	1 Ha.	10,00,000.00
16	Fresh Water Fish culture (Finfish)	1 Ha.	1,50,000.00
17	Establishment of Fish Seed Hatcheries	2 Ha.	25,00,000.00
18	Establishment of Fresh Water/ Brackish water Prawn Hatcheries (Min. capacity of 5 million post larvae per year)	1 No.	50,00,000.00
19	Fibre Rope (Wire Rope)	1,000 Fishing Boat	1,00,000.00
20	Small Feed Mill Plant (1 - 5 quintal Per day)	1 No.	10,00,000.00

7. Storage Godown/ Market Yard

Sr. No.	Capacity of Godown/ Yard	Unit Cost (Rs.)
	Storage Godown/ Market Yard (cold storage)	
a)	160 MT (cost per MT)	11,500.00
b)	200 MT (cost per MT)	11,000.00
c)	300 MT (cost per MT)	9,300.00
d)	Avg. cost per MT	10,500.00
8	Storage Godown (General)	
i	100 MT (cost per MT)	7,700.00
a)	160 MT (cost per MT)	7,200.00
b)	200 MT (cost per MT)	6,500.00
c)	300 MT (cost per MT)	6,000.00
d)	Avg. cost per MT	6,850.00

8 SOLAR PUMPING SYSTEMS *

Sr. No.	Description	Model I	Model II	Model III
a)	Solar shallow well (Surface)			
i	PV array (Wp)	900	1800	2700
ii	Motor Capacity (HP)	1	2	3
iii	Shut off dynamic head (mtrs.)	12	15	25
iv	Unit Cost (with DC motor pumpset)	171000	342000	513000
v	Unit Cost (with AC Induction Motor pumpset)	145350	290700	436050

Sr. No.	Description	Model I	Model II	Model III	Model IV
b)	Solar deep well (Submersible)				
i	PV array (Wp)	1200	1800	3000	4800
ii	Maximum total dynamic head	45	45	70	70
iii	Unit Cost (with DC motor pumpset)	228000	342000	570000	912000
iv	Unit Cost (with AC Induction Motor pumpset)	193800	290700	484500	775200

NB.: i) MS hot dipped galvanized, three times manual tracking facilities.

ii) Cost per watt peak is Rs.190/-

iii) Cost per watt peak is Rs. 161.5 with AC Induction Motor Pumpset.

* For full details please visit www.nabard.org