



**Unit costs for investment activities in  
agriculture and allied sectors  
Madhya Pradesh  
2019- 20**

**National Bank for Agriculture and Rural Development  
Madhya Pradesh Regional Office  
Bhopal**

## **Vision**

*“Development Bank of the Nation  
for fostering rural prosperity”*

## **Mission**

*“Promote sustainable  
and equitable agriculture  
and rural development  
through participative financial  
and non-financial interventions,  
innovations, technology  
and institutional development  
for securing prosperity”*

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## **Disclaimer**

*The unit costs and parameters suggested are based on the information available with NABARD. All Unit costs are indicative in nature and Banks/Govt. agencies may, at their discretion, arrive at the unit costs for respective activities based on the conditions prevailing in their area of operation, technical feasibility, financial viability and bankability of the project. NABARD does not accept any financial liability to anyone using this report for any purpose.*

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**Unit Cost for Investment Activities 2019-20**
**1. Minor Irrigation**

S. No.	Activity	Specifications	Unit Cost (Rs)
1.	Water Resources		
a.	Dug well (hard rock)	5 mtr width/ 12mtr depth	112900
b.	Dug well	(Alluvial) 5mtr width/12mtr depth	83250
2.	Bore well		
a.	Bore well	i) 30 metre depth with diameter-162-175mm	23400
b.	Bore well	ii) 50 metre depth with diameter -162-175mm	32100
c.	Bore well	iii) 80 metre depth with diameter-162-175mm	45500
3.	Tube well		
a.	Tube well	i) 50 metre depth with diameter-162-175mm	107000
b.	Tube well	i) 80 metre depth with diameter-162-175mm	169700
4.	Pump Sets		
a.	1 HP	1 HP	7000-8500
b.	3 HP	3 HP	11000-18000
c.	5 HP	5 HP	30000-41200
d.	8 HP	8 HP	32500-46500
5.	Submersible Pumpsets		
a.	3 HP	3 HP	18000-27000
b.	5 HP	5 HP	21000-28500
c.	6 HP	6 HP	21500-30200
d.	8 HP	8 HP	22500-32400
e.	10 HP	10 HP	24000-35300
6.	Generators		
a.	5 KVA	5 KVA	50000-58000
b.	7.5 KVA	7.5 KVA	54000-65000
c.	10 KVA	10 KVA	61000-67000
d.	Alternators	Per unit	40000-50000

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e.	Pipeline	1 ha.	25000-30000
f.	Drip irrigation	1 ha.	70000-150000
g.	Sprinkler set-HDPE	1ha. model	50000-58000
h.	Sprinkler set -Steel	1 ha model	75000-84000
i.	Lift irrigation	1 ha.	140000-160000
j.	Renovation of dug well		40000
k.	Rain water harvesting structure-Farm pond (black soil)	825 cubic meter	80000-90000

**2. Farm Mechanisation**

S. No.	Activity	Specifications	Unit Cost (Rs)
1.	15 HP tractor	1 unit	240000
2.	30 HP tractor	1 unit	500000
3.	35 HP tractor	1 unit	550000-600000
4.	40 HP tractor	1 unit	600000-675000
5.	45 HP tractor	1 unit	660000-810000
6.	50HP tractor	1 unit	745000-820000
7.	60 HP tractor	1 unit	8.00 to 8.20 lakh
8.	75 HP tractor	1 unit	Rs. 11.75 lakh
9.	90 HP tractor	1 unit	Rs 15.75 lakh
10.	Old tractors	1 unit	273000-446250
11.	Combine harvester	1 unit	18.00 - 22.00 lakh
12.	Power tiller	1 unit	200000
13.	Thresher (8 to 15 Q/hr.)	1 unit	1.50 - 2.50 lakh
14.	Thresher (16 to 25 Q/hr.)	1 unit	3.25 - 3.60 lakh
15.	Rotavator (5ft to 7ft)	1 unit	80000-120000
16.	Potato planter	1 unit	65000-95000
17.	Paddy Trans planter (4 row)	1 unit	150000-225000
18.	MB plough (2 bottom)/Disc Plough (2 disc)	1 unit	35000-55000

**Unit Cost for Investment Activities 2019-20**

19.	Reversible plough (2 bottom mechanical)	1 unit	50000-65000
20.	Reversible plough (2 bottom hydraulic)	1 unit	65000-85000
21.	Cultivator (11 tynes)	1 unit	32000-40000
22.	Harrow (7/11 disc)	1 unit	50000-75000
23.	Power harrow	1 unit	130000-180000
24.	Seed drill (9-13 tyne - single box)	1 unit	35000-55000
25.	Seed Cum fertilizer drill (9-13 tynes - double box)	1 unit	40000-60000
26.	Seed Cum fertilizer drill (9-11 tynes)	1 unit	55000-65000
27.	Raised bed Planter with inclined plate hopper and shapper (4-6 row)	1 unit	90000-120000
28.	Raised bed Planter (4-6 row)	1 unit	75000-85000
29.	Straw Reaper	1 unit	250000-300000
30.	Reaper Cum Binder (Tractor mounted 3/4 wheel)	1 unit	280000-450000
31.	Laser Land Leveler	1 unit	450000
32.	Mulcher	1 unit	175000-200000
33.	Shredder	1 unit	160000-200000
34.	Hey Rake	1 unit	250000-350000
35.	Baler (Round)	1 unit	350000-450000
36.	Baler (Square)	1 unit	1000000-1700000

**3. Land Development**

S. No.	Activity	Specifications	Unit Cost (Rs)
1.	Land levelling (av.slope 2%)	Per ha.	20500
2.	NADEP/Vermi Compost	3 tonne capacity	23400
3.	Vermi hatchery	150 MT/yr.	745500
4.	Tiny vermi compost unit	1.8 tonne	25700
5.	Reclamation of soil (saline/Alkaline)	Per ha.	31500- 81900

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S. No.	Activity	Specifications	Unit Cost (Rs)
6.	Watershed development (Post development treatment)	Per ha.	65100

**4. Plantation and Horticulture**

S. No.	Activity	Specifications	Unit Cost (Rs)
1.	Mango (7.5m x 7.5m)	Ha	134400
2.	Mango High Density (5m x 5m)	Ha	278700
3.	Banana (2.1 m x 2.1 m)	Ha	134300
4.	Papaya (2.25 m x 2.25m)	Ha	97500
5.	Guava (5 m x 5 m)	Ha	118700
6.	Lemon (6 m x 6 m)	Ha	144200
7.	Orange (6m x 6 m)	Ha	144200
8.	Ber (6 m x 8 m)	Ha	93200
9.	Pomegranate (4 m x 4 m)	Ha	145800
10.	Aonla (6 m x 6 m)	Ha	104800
11.	Sapota (8m x 8 m)	Ha	97700
12.	Grapes (4 m x4 m)	Ha	382900
13.	Betel leaf	Ha	120000
14.	Cut flowers	Ha	223300
15.	Bulbs	Ha	260400
16.	Loose flowers	Ha	162300
17.	Poly House (Naturally Ventilated System)	1000 sq mtr	935000
18.	Shade Net House (Tubular Structure)	1000 sq mtr	710000
19.	Bird Net	1000 sq mtr	71000

**5. Forestry**

S. No.	Activity	Specifications	Unit Cost (Rs)
1.	Bamboo Cultivation	Per ha.	24500

**Unit Cost for Investment Activities 2019-20**
**6. Animal Husbandry**

S. No.	Activity	Specifications	Unit Cost (Rs)
1.	Cow (Desi)	2 animals	84200
2.	Cow (Crossbred)	2 animals	169500
3.	Buffalo (graded murah)	2 animals	194000
4.	Mini dairy unit (GMB)	5 animals	573200
5.	Mini dairy unit (GMB)	10 animals	1100000
6.	Heifer buffalo (1 yr. old)	1 animal	47500
7.	Heifer buffalo (upto 3 yr. old)	1 animal	60500
8.	Electric Chaff Cutter	1 unit	45800
9.	Hand Chaff Cutter	1 unit	9500
10.	Salvaging of male buffalo calves	25 calves	540,100
11.	Commercial poultry farm (broilers)	2000 birds	790000
12.	Commercial layer unit	20000 birds	15012500
13.	Poultry Rearing (Low input technology)	500 LIT Birds	185000
14.	Goatery	10 + 1	100000
15.	Sheep	10 + 1	71600
16.	Rabbit unit	10 + 3	236300
17.	Piggery	3+1	83100
18.	Piggery	20 +4	630000

**7. Fisheries and Aquaculture**

S. No.	Activity	Specifications	Unit Cost (Rs)
1.	Construction of new fish pond - Intensive fish culture	Per ha.	850000
2.	Renovation of existing fish pond	Per ha.	200000
3.	Fresh water fish culture	Per ha.	150000



**Unit Cost for Investment Activities 2019-20**

S. No.	Activity	Specifications	Unit Cost (Rs)
4.	Re-circulatory Aquaculture Systems (RAS)	Per ha.	5,364,000
5.	Fish Seed Rearing Unit	Per ha.	750,000
6.	Establishment of fish seed hatcheries	Per ha.	3,000,000
7.	Establishment of fish feed Mills/Plants	01-05 qtls/day	1,000,000
8.	Setting up of Mobile/Retail fish outlet	per kiosk	1,000,000
9.	Cage culture	96 cubic meter	300,000

**8. Renewable Energy**

S. No.	Activity	Specifications	Unit Cost (Rs)
1.	Biogas Unit	1 cub mtr	16300
		2 cub mtr	25000-32000
		3 cub mtr	30000-44000
		4 cub mtr	36000-49000
		6 cub mtr	42000-57000
		Prefab. portable	27300

**9. Sericulture**

S. No.	Activity	Specifications	Unit Cost (Rs)
1	Mulberry Plantation and silk worm rearing	1 Acre	365000-425000
2	Establishment of chawki rearing unit	2 Acre	800000
3	Others – Bullock	1 Pair	50000
4	Bullock carts (Pneumatic tyres)	1	54600



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