

**राज्यस्तरीय बँकर समिती,  
महाराष्ट्र राज्य**

**STATE LEVEL BANKERS' COMMITTEE,  
MAHARASHTRA STATE**



**संयोजक / CONVENER**  
**बैंक ऑफ महाराष्ट्र**  
**Bank of Maharashtra**  
भारत सरकार का उद्यम

**एक परिवार एक बैंक**

प्र.का.: 'लोकमंगल', 1501, शिवाजीनगर, पुणे- 411005.  
H.O. : 'Lokmangal', 1501, Shivajinagar, Pune - 411005.

AX1 / SLBC / Unit Cost / 2018-19 / 356 - 433

Date : 17.04.2018

**All Member Banks  
All Lead District Managers  
SLBC Maharashtra**

Dear Sir,

**Sub : Approved Unit Costs for various investment activities in agriculture and allied sectors for 2018-19**

A meeting of State Level unit Cost Committee was convened by NABARD, Maharashtra R.O. on 23.03.2018. NABARD has provided copy of Unit Costs for various investment activities in agriculture and allied sectors for 2018-19. The same is enclosed herewith.

The Unit Costs approved for the year 2018-19 are indicative and banks can increase / decrease the same by 10-20% wherever found necessary.

All Member Banks and Lead District Managers are requested to note the contents for information, dissemination to all concerned and further necessary action.

Thanks and regards,

Yours faithfully,

*(Signature)*

Dy. Gen. Manager,  
Member Secretary,  
SLBC, Maharashtra.



## Annexure I

## Minor Irrigation

Unit Cost 2018-19

| Sr | Item of Investment                                                                                                                                                                                                                                                                                                                                                    | Specifications                                                                         | (Rs)   |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------|
| 1  | Dug-well in Sandstone and Metamorphic formation in Vidarbha region (applicable to Gadchiroli, Chandrapur, Bhandara districts and part of Nagpur district)                                                                                                                                                                                                             | dia 3m,depth 18m, depth of lining 8m                                                   | 130000 |
| 2  | Dug-cum-borewell in alluvial formation of Tapi & Purna basins in Vidarbha Region Akola, Amravati, Buldhana & Dhule dists.                                                                                                                                                                                                                                             | dia 3m,20m depth, RCC lining of 0.45m thickness,20m height Boring-150mm dia, 20m depth | 110000 |
|    | DUG WELLS IN DECCAN TRAP                                                                                                                                                                                                                                                                                                                                              |                                                                                        |        |
| 3  | Dug well in Konkan region (Thane, Raigad, Ratnagiri and Sindhudurg districts)                                                                                                                                                                                                                                                                                         | dia 4.5 m, 10 m depth of lining 3 m                                                    | 100000 |
| 4  | Dug well in Pune region (Pune, Sangli, Satara, Solapur and Kolhapur districts)                                                                                                                                                                                                                                                                                        | dia 4.5 m, 15 m depth of lining 4 m                                                    | 130000 |
| 5  | Dug well in Amravati region (Amravati, Akola, Washim, Yavatmal and Buldana districts)                                                                                                                                                                                                                                                                                 | dia 4.5 m, 15 m depth of lining 4 m                                                    | 100000 |
| 6  | Dug well in Nagpur region (Chandrapur, Nagpur, Gadchiroli, Wardha, Bhandara & Gondia districts)                                                                                                                                                                                                                                                                       | dia 4.5 m, 15 m depth of lining 4 m                                                    | 100000 |
| 7  | Dugwell in Aurangabad region (Aurangabad, Beed, Osmanabad, Parbhani, Hingoli, Nanded, Latur & Jalna districts)                                                                                                                                                                                                                                                        | dia 6.0 m, depth 15 m, depth of lining 4 m                                             | 110000 |
| 8  | Dugwell in Nasik (East) region (Ahmednagar, Nasik, Dhule & Nandurbar districts)                                                                                                                                                                                                                                                                                       | dia 5.0 m, depth 15 m depth of lining 4 m, boring 150 mm x 15 m                        | 115000 |
| 9  | Dug well in Nasik (West) region (Akkalkuwa & Akrani in Nandurbar district, Akole in A'Nagar dist. and Surgana, Peint, Igatpuri & Kalwan in Nasik dist.                                                                                                                                                                                                                | dia 5.0 m, 10 m depth of lining 4 m                                                    | 100000 |
|    | BORE WELLS                                                                                                                                                                                                                                                                                                                                                            |                                                                                        |        |
| 10 | Bore well in Sandstone & Metamorphic formation in Vidarbha Region (applicable to Gadchiroli, Gondia, Chandrapur, Bhandara districts & part of Nagpur district, Dhadgaon and Akkalkua tehsils of Nandurbar district and Dharani and Chikaldara of Amravati district) 150 mm dia. Well drilling, PVC casing pipe of 180 mm dia, bore well yield testing, survey charges |                                                                                        | 30000  |
| 11 | Tube-cum-borewell in alluvial formation of Tapi & Purna basins in Vidarbha Region Akola, Amravati, Buldhana, Dhule & Jalgaon dists.                                                                                                                                                                                                                                   |                                                                                        | 195000 |



|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 12 | Bore well in Lateritic formation (generally in Konkan Region i.e., Thane, Raigad, Ratnagiri & Sindhudurg districts Bore well drilling 150 mm dia, MS casing 150 mm dia, bore well yield testing, survey charges                                                                                                                                                                                                                                                                                                                      | 35000 |
| 13 | Bore well in Deccan Trap formation i.e Pune Region (Pune, Sangli, Satara, Solapur & Kolhapur districts), Nasik (East) Region (Ahmednagar, Nasik, Dhule & Nandurbar districts), Nasik (West) Region (Akkalkuwa & Akrani in Nandurbar district, Akole in A'Nagar district & Surgana, Peint, Igatpur & Kalwan in Nasik dist. Aurangabad Region (Aurangabad, Beed, Osmanabad, Parbhani, Hingoli, Nanded, Latur & Jalna districts), etc 150 mm dia. Well drilling, PVC casing pipe of 180 mm dia, bore well yield testing, survey charges | 26000 |

Unit Cost for dugwell may be considered as per the cost calculated under govt. programmes in the district.

#### PUMPING SYSTEM

| Sr  | Item of Investment                                                           | UNIT COST 2018-19 (Rs) |
|-----|------------------------------------------------------------------------------|------------------------|
| a   | PUMPSETS                                                                     |                        |
| i   | Submersible Pumpsets                                                         |                        |
| 1   | 3 HP                                                                         | 40,000                 |
| 2   | 5 HP                                                                         | 55,000                 |
| ii  | Electric Pumpsets with accessories and installation charges                  |                        |
| 1   | 2 HP                                                                         | 15,000                 |
| 2   | 3 HP                                                                         | 20,000                 |
| 3   | 5 HP                                                                         | 30,000                 |
| 4   | 7.5 HP                                                                       | 35,000                 |
| iii | Diesel Pumpsets with accessories & installation charges                      |                        |
| 1   | 5 HP                                                                         | 35,000                 |
| 2   | 7.5 HP                                                                       | 40,000                 |
| iv  | Petrol start Kerosene run pumpsets with accessories and installation charges |                        |
| 1   | 2 HP                                                                         | 15,000                 |
| 2   | 3.5 HP                                                                       | 20,000                 |
| b   | PUMPHOUSE                                                                    |                        |
| 1   | Pumphouse (2.5 m x 2.5 m x 2.1 m)                                            | 15000                  |

For solar pumpsets bench cost and subsidy available as per circular No.252 / DOR.GSS.60 / 2014 dated 17/12/2014 addressed to CBs, RRBs, StCB and SCARDBs.

Drip Irrigation Systems with Drippers for various Plantation and Horticulture Crops and Floriculture

| Sr                                                                     | Crop                                                    | Specifications                      | (Rs) / ha. |
|------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------------|
| i                                                                      | Mango / Chiku / Tamarind                                | 10 x 10m                            | 25000      |
| ii                                                                     | Coconut                                                 | 8 x 8m                              | 41000      |
| iii                                                                    | Coconut                                                 | 7 x 7m                              | 34000      |
| iv                                                                     | Guava, Lemon, Orange, Mosambi, Cashew                   | 6 x 6m                              | 40000      |
| v                                                                      | Custard Apple, Pomegranate, Ber, Fig, Drumstick         | 5 x 5m                              | 36000      |
| vi                                                                     | Papaya, Arecanut, Tondali, Drumstick                    | 3 x 3m                              | 58000      |
| vii                                                                    | Grape                                                   | 3 x 1.5m                            | 60000      |
| viii                                                                   | Grape                                                   | 1.80 x 1.20m                        | 100000     |
| ix                                                                     | Banana                                                  | 2.50 x 2.50m                        | 60000      |
| x                                                                      | Banana                                                  | 1.50 x 1.50m                        | 85000      |
| xi                                                                     | Sugarcane                                               | 1.40 x 0.60 x 0.30m                 | 100000     |
|                                                                        | Sugarcane                                               | sub surface irrigation (per 0.4 ha) | 50000      |
| xii                                                                    | Cotton pair row, Sugarcane                              | 2.30 x 0.75 x 1.50m                 | 60000      |
| xiii                                                                   | Cotton, Ginger                                          | 1 x 1m                              | 100000     |
| xiv                                                                    | Vegetable, Rose                                         | 0.75 x 0.75m                        | 100000     |
| xv                                                                     | Strawberry                                              | 0.75 x 0.60 x 0.30m                 | 100000     |
| xvi                                                                    | Other Flowers (Nishigandha, Gladioli and Chrysanthemum) | 0.20 x 0.30 m                       | 100000     |
| xvii                                                                   | Mulberry                                                | 1.5x0.9x0.6 m                       | 60000      |
| Sprinkler Irrigation System (for field crops like pulses and oilseeds) |                                                         |                                     |            |

| Sr | Particulars      | (Rs)  |
|----|------------------|-------|
| i  | 63 mm HDPE pipes | 25000 |
| ii | 75 mm HDPE pipes | 30000 |



## FARM MECHANISATION

| Sr | Activities                                                          | (Rs)              |
|----|---------------------------------------------------------------------|-------------------|
| 1  | Tractor, Trailer, Reaper, Combined Harvester, other farm implements | As per quotations |
| 2  | Conventional carts                                                  |                   |
| a  | Capacity 5 qtl.                                                     | 16000             |
| b  | Capacity 8 qtl.                                                     | 20000             |
| 3  | MAIDC tyre carts                                                    |                   |
| a  | Capacity 2 T                                                        | 26620             |
| b  | Capacity 3 T                                                        | 28380             |
| c  | Locally fabricated                                                  | 21780             |
| 4  | MAIDC Steel carts                                                   |                   |
| a  | 1 MT                                                                | 36300             |
| b  | 2 MT                                                                | 37400             |
| c  | 3 MT                                                                | 38500             |
| d  | Locally fabricated 3.5 MT                                           | 40700             |

## PLANTATION AND HORTICULTURE

| Sr | Crops             | (Rs / Ha.) |
|----|-------------------|------------|
| 1  | Mango             | 145550     |
| 2  | Grapes            | 1054000    |
| 3  | Pomegranate       | 205188     |
| 4  | Mandarin orange   | 176218     |
| 5  | Sweet orange      | 160705     |
| 6  | Acid lime         | 167438     |
| 7  | Aonla             | 78886      |
| 8  | Sapota            | 128603     |
| 9  | Custard apple     | 114300     |
| 10 | Cashew nut        | 93829      |
| 11 | Fig               | 158470     |
| 12 | Bamboo plantation | 30000      |

Banks in Konkan area may need to consider suitable / needbased revision in unit cost wherever necessary.

## SHADENET FOR FLOWERS AND VEGETABLES

| Sr | ACTIVITY             |         |
|----|----------------------|---------|
| 1  | 10 R Shade net House | 363100  |
| 2  | 20 R Shade net House | 627400  |
| 3  | 40 R Shade net House | 1128600 |

## CULTIVATION OF FLOWERS AND VEGETABLES (Cost per 0.5 Ha)

|   |                      |        |
|---|----------------------|--------|
| 1 | 1st red / Dutch rose | 575000 |
| 2 | Carnation            | 645000 |
| 3 | Gerbera              | 580000 |
| 4 | Capsicum             | 520000 |

## LAND DEVELOPMENT

| Sr  | Item of investment                      | Specifications                               | Rs     |
|-----|-----------------------------------------|----------------------------------------------|--------|
| 1   | Graded bunding                          | 0.95 Sq M cross section, 210 m length per ha | 15700  |
| 2   | Farm bunding                            |                                              |        |
| i   | upto 4% field slope light soil          | 0.80 Sq M c/s 200 m/ha                       | 12800  |
| ii  | upto 4% field slope medium soil         | 1 Sq M c/s 200 m/ha                          | 15600  |
| iii | upto 4% field slope heavy soil          | 1.2 Sq M c/s 200 m/ha                        | 18400  |
| 3   | Field drainage for wet lands            | 2.52 Sq M cross section 65 m / ha            | 29600  |
| 4   | Half dug out community tanks            | M3-10000/ha 10                               | 556000 |
| i   | Half dug out community tanks (m3 10000) | M3-8000/ha8                                  | 480000 |
| ii  | Half dug out community tanks (m3 10000) | M3-5000/ha5                                  | 339000 |
| iii | Half dug out community tanks (m3 10000) | M3-2000/ha2                                  | 175000 |
| iv  | Half dug out community tanks (m3 10000) | M3-500/ha 0.5                                | 65500  |
| 5   | Land levelling & shaping/ha             | (a) Slope : upto : 1%                        | 7700   |
|     |                                         | (b) Slope : 1-2%                             | 11700  |
|     |                                         | (c) Slope : 2-3%                             | 15500  |
| 6   | Fencing (running mts)                   | Barbed (1.8 mt.)                             | 145    |



### FISHERIES

| Sr | ACTIVITIES                  | (Rs) / Ha.(WSA) |
|----|-----------------------------|-----------------|
| 1  | Composite Pond :New         | 206800          |
| 2  | Composite pond : Renovation | 176220          |
| 3  | Scampi Monoculture          | 338000          |
| 4  | Scampi Poly culture         | 317240          |
| 5  | Shrimp Farming              | 448140          |

### UNIT COST OF 2 CB COWS

| Sr | Items                                     | Unit specifications | Physical units | Unit Cost (Rs. / unit) | Total Cost (Rs.) |
|----|-------------------------------------------|---------------------|----------------|------------------------|------------------|
| 1  | Cost of animals                           | No.                 | 2              | 55000                  | 110000           |
| 2  | Insurance                                 | No.                 | 2              | 2750                   | 5500             |
| 3  | Conc. Feed (for first animal for 30 days) | Kg                  | 135            | 17                     | 2295             |
| 4  | Misc. cost                                | Lump sum            |                |                        | 2205             |
|    | Total cost                                |                     |                |                        | 120000           |
|    | Margin money (15% of TFO)                 |                     |                |                        | 18000            |
|    | Bank loan (85% of TFO)                    |                     |                |                        | 102000           |

### UNIT COST OF BUFFALOES

| Sr | Items                                     | Unit specifications | Physical units | Unit Cost (Rs. / unit) | Total Cost (Rs.) |
|----|-------------------------------------------|---------------------|----------------|------------------------|------------------|
| 1  | Cost of animals                           | No.                 | 2              | 63000                  | 126000           |
| 2  | Insurance                                 | No.                 | 2              | 3150                   | 6300             |
| 3  | Conc. Feed (for first animal for 30 days) | Kg                  | 120            | 17                     | 2040             |
| 4  | Misc. cost                                |                     |                |                        | 1660             |
|    | Total cost                                |                     |                |                        | 136000           |
|    | Margin money (15% of TFO)                 |                     |                |                        | 20400            |
|    | Bank loan (85% of TFO)                    |                     |                |                        | 115600           |

## Annexure II

## Unit cost for Mango cultivation under Ultra High Density Farming

Variety : Kesar  
 Spacing : 3m x 2m  
 Unit area : 1 acre  
 No. of pts/ acre : 666

Amt in Rs

| No. of pts/ acre |                                     | 666   |          | Amt in Rs |        |                              |        |           |        |            |       |
|------------------|-------------------------------------|-------|----------|-----------|--------|------------------------------|--------|-----------|--------|------------|-------|
|                  | Particular                          | Unit  | No/ Rate | 1'st Year |        | 2'nd Year                    |        | 3'rd Year |        | 4'th Year  |       |
| A)               | INPUT MATERIALS                     |       |          | Qty       | Amount | Qty                          | Amount | Qty       | Amount |            |       |
| 1                | Planting materials                  |       |          |           |        |                              |        |           |        |            |       |
|                  | Total Plants                        | Nos   | 40       | 666       | 26640  |                              |        |           |        |            |       |
|                  | Gap Filling                         | Nos   | 40       |           |        | 70                           | 2800   |           |        |            |       |
| 2                | Manures and Fertilisers             |       |          |           |        |                              |        |           |        |            |       |
| a                | Organic Manure                      | MT    | 1000     | 3.3       | 3300   | 3.3                          | 3300   | 6.66      | 6660   | 9.99       | 9990  |
| b                | Fertilizers & Pesticides            |       |          |           |        |                              |        |           |        |            |       |
| i                | N:P2O5:K2O                          | gm/pt |          | 35:15:25  | 1123   | 45:25:50                     | 1881   | 75:50:75  | 3298   | 120:75:100 | 4833  |
| ii               | Micro nutrients                     | LS    |          |           | 250    |                              | 500    |           | 1000   |            | 1000  |
| c                | Pesticides/ fungicides              | LS    |          |           | 1000   |                              | 3000   |           | 13000  |            | 20000 |
|                  | Subtotal - Input                    |       |          |           | 32313  |                              | 11481  |           | 23958  |            | 35823 |
|                  |                                     |       |          |           |        |                              |        |           |        |            |       |
| B)               | OPERATIONS                          |       |          |           |        |                              |        |           |        |            |       |
| a                | Land preparation (machinery)        | acre  | 1000     |           | 1000   |                              |        |           |        |            |       |
| b                | Pit digging, filling, planting      | No.   | 45       | 666       | 29970  |                              | 1500   |           |        |            |       |
| c                | Irrigation/ fertigation             |       |          |           | 3000   |                              | 3000   |           | 3000   |            | 3000  |
| d                | Application of chemicals            | MD    | 250      | 2         | 500    | 5                            | 1250   | 8         | 2000   | 8          | 2000  |
| e                | Interculture/ Pruning/ training     | MD    | 200      | 5         | 1000   | 10                           | 2000   | 15        | 3000   | 15         | 3000  |
| f                | Harvesting cost                     | MD    | 200      |           |        |                              |        | 5         | 1000   | 5          | 1000  |
|                  | Subtotal - Operations               |       |          |           | 35470  |                              | 7750   |           | 9000   |            | 9000  |
| C)               | TOTAL EXPENSES PER ACRE             |       |          |           | 67783  |                              | 19231  |           | 32958  |            | 44823 |
|                  |                                     |       |          |           |        |                              |        |           |        |            |       |
|                  | UNIT COST - Capitalised for 3 years |       |          |           | 119972 | Rounded off to Rs 1,20,000/- |        |           |        |            |       |

|                                                 |  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 |
|-------------------------------------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>D] Capital Investment</b>                    |  |        |        |        |        |        |        |        |        |
| MI System                                       |  | 30000  |        |        |        |        |        |        |        |
| Orchard                                         |  | 67783  | 19231  | 32958  |        |        |        |        |        |
| Total                                           |  | 97783  | 19231  | 32958  |        |        |        |        |        |
| <b>E] Maintenance expenses</b>                  |  |        |        |        | 44823  | 49306  | 54236  | 59660  | 65626  |
| <b>F] TOTAL EXPENSES</b>                        |  | 97783  | 19231  | 32958  | 44823  | 49306  | 54236  | 59660  | 65626  |
| (10% increase considered from 5th year onwards) |  |        |        |        |        |        |        |        |        |
| <b>G] Income</b>                                |  |        |        |        |        |        |        |        |        |
| Yield (MT/Acre)                                 |  | 0.0    | 0.0    | 3.0    | 4.0    | 5.0    | 6.0    | 6.0    | 6.0    |
| Income @ Rs 20 per Kg                           |  |        |        | 60000  | 80000  | 100000 | 120000 | 120000 | 120000 |
| Net income from orchards                        |  |        |        | 27042  | 35177  | 50694  | 65764  | 60340  | 54374  |

|    |                    |        |        |       |       |        |        |        |        |        |        |
|----|--------------------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| H] | Financial Analysis |        |        |       |       |        |        |        |        |        |        |
|    | Years ----->       | 1      | 2      | 3     | 4     | 5      | 6      | 7      | 8      | 9      | 10     |
|    | Cost               | 97783  | 19231  | 32958 | 44823 | 49306  | 54236  | 59660  | 65626  | 72188  | 79407  |
|    | Benefit            | 0      | 0      | 60000 | 80000 | 100000 | 120000 | 120000 | 120000 | 120000 | 120000 |
|    | Net benefit        | -97783 | -19231 | 27042 | 35177 | 50694  | 65764  | 60340  | 54374  | 47812  | 40593  |
|    | IRR                | 26%    |        |       |       |        |        |        |        |        |        |
|    | NPV of costs       | 278860 |        |       |       |        |        |        |        |        |        |
|    | NPV of benefits    | 334903 |        |       |       |        |        |        |        |        |        |
|    | Net Present Worth  | 56042  |        |       |       |        |        |        |        |        |        |
|    | B C Ratio          | 1.20   |        |       |       |        |        |        |        |        |        |

| <b>I] Repayment schedule</b> |                |          |                |           |       |       |             |  |
|------------------------------|----------------|----------|----------------|-----------|-------|-------|-------------|--|
| Year                         | Loan disbursed | Loan o/s | Interest @ 10% | Repayment |       |       |             |  |
|                              |                |          |                | Interest  | Prin  | Total | Net benefit |  |
| 1                            | 61005          | 61005    | 6100           | 6100      | 0     | 6100  | 0           |  |
| 2                            | 17308          | 78313    | 7831           | 7831      | 0     | 7831  | 0           |  |
| 3                            | 29662          | 107975   | 10797          | 10797     | 0     | 10797 | 16245       |  |
| 4                            | 0              | 107975   | 10797          | 10797     | 10309 | 21106 | 14071       |  |
| 5                            | 0              | 97666    | 9767           | 9767      | 20650 | 30417 | 20278       |  |
| 6                            | 0              | 77016    | 7702           | 7702      | 31757 | 39458 | 26306       |  |
| 7                            | 0              | 45260    | 4526           | 4526      | 31678 | 36204 | 24136       |  |
| 8                            | 0              | 13581    | 1358           | 1358      | 13581 | 14940 | 39435       |  |

## Assumptions

Rate of Interest at 10%; Loan at 90% of the proposed UC

60% of net income reckoned towards payment of interest and repayment of principle

Repayment in 8 years with 3 years moratorium for principle

Expenses - 10% increase considered from year 5 onwards

Income - kept on a conservative basis; no increase considered over the years in price of Mango.



## Annexure III

Unit cost for Pomegranate cultivation under Ultra High Density Farming

Variety : Bhagwa  
 Spacing : 3m x 2m  
 Unit area : 1 acre  
 No. of pts/ acre : 666

(Amt Rs)

|   | Particular                             | Unit    | No/ Rate | 1st Year    |        | 2nd Year    |        | 3rd Year    |        | 4th Year    |        |
|---|----------------------------------------|---------|----------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
| A | INPUT MATERIALS                        |         |          | Qty         | Amount | Qty         | Amount | Qty         | Amount |             |        |
| 1 | Planting materials                     |         |          |             |        |             |        |             |        |             |        |
|   | Total Plants                           | Nos     | 30       | 666         | 19,980 |             |        |             |        |             |        |
|   | Gap Filling                            | Nos     | 30       |             |        | 70          | 2,100  |             |        |             |        |
| 2 | Manures and Fertilisers                |         |          |             |        |             |        |             |        |             |        |
| a | Organic Manure                         | MT      | 1000     | 3.33        | 3,330  | 6.66        | 6,660  | 9.99        | 9,990  | 9.99        | 9,990  |
| b | Fertilizers & Pesticides               |         |          |             |        |             |        |             |        |             |        |
| i | N:P2O5:K2O                             | gm / pt |          | 100:100:100 | 4,923  | 200:150:150 | 7,782  | 250:175:175 | 9,211  | 300:200:225 | 10,986 |
| c | Pesticides/ fungicides/ micronutrients | LS      |          |             | 5,000  |             | 11,000 |             | 18,000 |             | 24,000 |
|   | Subtotal - Input                       |         |          |             | 33,233 |             | 27,542 |             | 37,201 |             | 44,976 |

| B | OPERATIONS                          |          |      |     |          |                              |        |    |        |    |        |
|---|-------------------------------------|----------|------|-----|----------|------------------------------|--------|----|--------|----|--------|
| a | Land preparation (machinery)        | acre     | 1000 |     | 1,000    |                              |        |    |        |    |        |
| b | Pit digging, filling, planting      | No.      | 45   | 666 | 29,970   |                              | 1,500  |    |        |    |        |
| c | Irrigation/ fertigation             |          |      |     | 3,000    |                              | 3,000  |    | 3,000  |    | 3,000  |
| d | Application of chemicals            | Man Days | 250  | 2   | 500      | 5                            | 1,250  | 8  | 2,000  | 8  | 2,000  |
| e | Interculture/ Pruning/ training     | Man Days | 200  | 5   | 1,000    | 10                           | 2,000  | 15 | 3,000  | 15 | 3,000  |
| f | Harvesting cost                     | Man Days | 200  |     |          |                              |        | 5  | 1,000  | 5  | 1,000  |
|   | Subtotal - Operations               |          |      |     | 35,470   |                              | 7,750  |    | 9,000  |    | 9,000  |
| C | TOTAL EXPENSES PER ACRE             |          |      |     | 68,703   |                              | 35,292 |    | 46,201 |    | 53,976 |
|   | UNIT COST - Capitalised for 3 years |          |      |     | 1,50,195 | Rounded off to Rs 1,50,000/- |        |    |        |    |        |

|   |                                   | Year 1 | Year 2 | Year 3 | Year 4 | Year 5   | Year 6   | Year 7   | Year 8   |
|---|-----------------------------------|--------|--------|--------|--------|----------|----------|----------|----------|
| D | Investment                        |        |        |        |        |          |          |          |          |
|   | MI System                         | 30000  |        |        |        |          |          |          |          |
|   | Orchard                           | 68,703 | 35,292 | 46,201 |        |          |          |          |          |
|   | Total                             | 98,703 | 35,292 | 46,201 |        |          |          |          |          |
| E | ance expenses                     |        |        |        | 53,976 | 59,373   | 65,311   | 71,842   | 79,026   |
| F | TOTAL EXPENSES                    | 98,703 | 35,292 | 46,201 | 53,976 | 59,373   | 65,311   | 71,842   | 79,026   |
|   | considered from 5th year onwards) |        |        |        |        |          |          |          |          |
| G | INCOME                            |        |        |        |        |          |          |          |          |
|   | Yield (MT/Acre)                   | 0      | 0      | 2      | 4      | 6        | 6.5      | 6.5      | 6.5      |
|   | Income @ Rs 23 per Kg             |        |        | 46,000 | 92,000 | 1,38,000 | 1,49,500 | 1,49,500 | 1,49,500 |
|   | Net income from orchard           |        |        | -201   | 38,024 | 78,627   | 84,189   | 77,658   | 70,474   |
|   |                                   |        |        | 2000   | 4000   | 6000     | 6500     | 6500     | 6500     |

| H | Financial Analysis |        |        | 3.003003003 | 6.00600601 | 9.009009009 | 9.75976  | 9.75975976 | 9.75976 |        |        |
|---|--------------------|--------|--------|-------------|------------|-------------|----------|------------|---------|--------|--------|
|   | Years ----->       | 1      | 2      | 3           | 4          | 5           | 6        | 7          | 8       | 9      | 10     |
|   | Cost               | 98703  | 35292  | 46201       | 53976      | 59373       | 65311    | 71842      | 79026   | 86929  | 95621  |
|   | Benefit            | 0      | 0      | 46,000      | 92,000     | 1,38,000    | 1,49,500 | 149500     | 149500  | 149500 | 149500 |
|   | Net benefit        | -98703 | -35292 | -201        | 38024      | 78627       | 84189    | 77658      | 70474   | 62571  | 53879  |
|   | IRR                | 26%    |        |             |            |             |          |            |         |        |        |
|   | NPV of costs       | 332696 |        |             |            |             |          |            |         |        |        |
|   | NPV of benefits    | 400616 |        |             |            |             |          |            |         |        |        |
|   | Net Present Worth  | 67920  |        |             |            |             |          |            |         |        |        |
|   | B C Ratio          | 1.2    |        |             |            |             |          |            |         |        |        |

| I | Repayment schedule |                |          |                |           |       |       |             |  |
|---|--------------------|----------------|----------|----------------|-----------|-------|-------|-------------|--|
|   | Year               | Loan disbursed | Loan o/s | Interest @ 10% | Repayment |       |       |             |  |
|   |                    |                |          |                | Interest  | Prin  | Total | Net benefit |  |
|   | 1                  | 61832          | 61832    | 6183           | 6183      | 0     | 6183  | 0           |  |
|   | 2                  | 31762          | 93595    | 9359           | 9359      | 0     | 9359  | 0           |  |
|   | 3                  | 41581          | 135176   | 13518          | 13518     | 0     | 13518 | 0           |  |
|   | 4                  | 0              | 135176   | 13518          | 13518     | 9297  | 22814 | 15210       |  |
|   | 5                  | 0              | 125879   | 12588          | 12588     | 34588 | 47176 | 31451       |  |
|   | 6                  | 0              | 91291    | 9129           | 9129      | 41384 | 50514 | 33676       |  |
|   | 7                  | 0              | 49906    | 4991           | 4991      | 49906 | 46595 | 31063       |  |

## Assumptions

Rate of Interest at 10%; Loan at 90% of the proposed UC

60% of net income reckoned towards payment of interest and repayment of principle

Repayment in 7 years with 3 years moratorium for principle

Expenses - 10% increase considered from year 5 onwards

Income - kept on a conservative basis; no increase considered over the years in price of Pomegranate