

BHAVANTAR BHARPAYEE YOJANA (BBY)

A Risk Mitigation Scheme for Horticulture Producers during Low Price in Markets in Haryana



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Bhavantar Bharpayee Yojana (BBY) - A Risk Mitigation Scheme for Horticulture Producers during Low Price in Markets in Haryana

1. Introduction:

It has been experienced that producers are forced to sell horticultural produce like potato, onion and tomato at a through away price at different times in a year. Prices of some of the horticulture commodities especially onion and potato are highly volatile. The State Government has taken cognizance of this issues and has felt that there is need to device a mechanism to support the producers so that they are saved of losses during such situations.

Such scheme should contain short and long term solutions to support producers during distress sale and low prices periods. Upon analyzing the marketing data of produce arrival and wholesale prices during the last 10 years available on AgMarket portal and data of HSAMB and cost of production, it came out that producers suffers largely during the main harvesting period and there is need to support them during that period.

Keeping in view above factors, this scheme has been devised with the following objectives and implementation strategies.

2. Objectives:

- i. To mitigate the risk of producers by incentivizing during low prices in the market for perishable commodities like fruits & vegetables and other crops as deemed fit to be included.
- ii. To create corpus fund for facilitation of producers in marketing of their produce.
- iii. To help producers to support them in diversification in agriculture.

3. Implementation Strategy:

- 1) To fix "Base Price", that will become basis of incentive when prices fall below Base Price. The Base Price shall be determined by a Committee constituted for this purpose by taking into account the production cost of a crop.
- 2) To fix "Benchmark Period" of produce which includes Benchmark Sowing Period and Benchmark Harvesting & Sale Period in wholesale market during which producers shall be eligible for incentives? The Benchmark Period shall be determined by a Committee constituted for this purpose by taking into account arrival of produce in wholesale market.
- 3) To fix "Benchmark Yield" upto which producers are eligible for incentive. The Benchmark Yield shall be determined by a Committee constituted for this purpose by taking into account potential and average yield in the State.

4. Implementation Mechanism:

- 4.1 On the basis of recommendation of Committee Base Price, Benchmark Period and Benchmark Yield shall be fixed.
- 4.2 Department of Horticulture shall prepare a scheme for budget allocation and get due approval from the Govt. The allocated funds shall be transferred into the corpus fund to be maintained by HSAMB.
- 4.3 A Corpus Fund shall be created in "HSAMB" as assessed on the basis of recommendation of Committee on fixing the Base Price, the Benchmark Period and the Benchmark Yield (pl. see Committee report).
- 4.4 An Independent Cell shall be created in HSAMB for management of corpus fund and implementation of the programme.
- 4.5 An e-portal shall be developed by HSAMB for dispersal of incentives on the produce arrived in the market. In subsequent years, it will be linked with e-girdawari for area authentication and other such portals maintained by state and GOI for monitoring and reporting.
- 4.6 Producer Registration: A farmer, the producer is eligible to take advantage of the scheme subject to following conditions:
 - 4.6.1 Only registered producer on MFMB shall be eligible under this scheme.
 - 4.6.2 The producer can be land owner, lease holder or tenant.
 - 4.6.3 Registration of producer shall be free of cost (except e-disha centres) and he/she need to register on e-portal and fill up required information viz. land details, kind of crop, area sown under crop etc. to take benefit of the scheme.
 - 4.6.4 Registration shall remain open during the benchmark sowing period and 15 days after last date of sowing mentioned in the benchmark period for that particular crop. The period shall be fixed under the scheme for a particular crop.
 - 4.6.5 Registration on MFMB Portal can be done through Common Service Centres (CSC)/ e-Disha Centres or through portals of HSAMB or Agriculture/ Horticulture departments or internet kiosks on mobile app.
- 4.7 The **area authentication** is subject to verification within 15 to 30 days (depending upon the crop) after closing date of registration by Horticulture Extension Field Officers.
 - Mobile based application shall be used for area authentication/ physical verification of registered area of crops under BBY and measurement through GPS coordinates and photo of site/ crops.
 - As the early potato has already been harvested and wheat/ other crop has been sown in that harvested area and physical verification at this stage is not feasible. However, District Horticulture Officer/ Horticulture Development Officer along with concerned revenue officer/ Patwari will authenticate/ verify such type of field, to ensuring that there was early potato crop sown in that field and upload information on portal accordingly.

- A farmer who is registered in one particular district but having land in other district; the application of such farmer shall be forwarded to DHO concerned where his/her land falls. After verification the application shall be sent back to original district.
- 4.8 Producers who don't register themselves during the opening window of registration shall not be eligible under this scheme.
- 4.9 The online processing, right from registration to disbursal of payment to producers, shall be executed by independent cell situated in HSAMB Head Quarter and shall work in close co-ordination with market secretaries in the HSAMB markets through e-Portal.
- 4.10 Determination of Benchmark Period: "Benchmark Period" of produce shall be fixed, it includes Benchmark Sowing Period and Benchmark Harvesting & Sale Period in wholesale market during which producers shall be eligible for incentives. This period shall be determined by a Committee to be constituted for the purpose on the basis of harvesting period and arrival data in the market. The Committee determined the sowing, harvesting and sale period of different crops and is as under:
 - 4.10.1 The online registration, verification and sale period shall be as under:

Table-1

| Crop | Registration & Verification | | Benchmark Harvesting | |
|--------------|-----------------------------|----------------------|----------------------|-------------------|
| | Period | | and Sale Period in | |
| | | | wholesale market | |
| | Opening Date | Closing Date | During | |
| Bhindi | 1 February | 31 March | 15 April - 30 June | 15 Aug to 30 Sept |
| Chilli | 1 February | 31 March | 15 April - 30 June | |
| Bottle gourd | 1 February | 31 March | 15 April - 30 June | 15 Aug to 30 Sept |
| Bitter gourd | 1 February | 31 March | 15 April - 30 June | 15 Aug to 30 Sept |
| Cabbage | 1 October | 30 Nov | 1 Dec – 31 March | |
| Radish | 1 October | 30 Nov | 1 Dec – 31 March | |
| Tomato | 15 Dec | 15 Feb | 1 April-15 June | |
| Onion | 15 Dec | 15 Feb | 1 April-31 May | 1 Nov to 15 Dec |
| Potato | 15 Sept | 31 October | 1 Dec-31 March | |
| Cauliflower | 15 Sept | 31 October | 1 Dec-31 March | 15 Aug to 30 Sept |
| Carrot | 1 October | 30 Nove | 1 Dec -28 Feb | |
| Pea | 1 October | 30 Nov | 1 Dec -28 Feb | |
| Capsicum | 10 Feb | 15 March | 1 April – 30 June | |
| Brinjal | 10 Feb | 15 March | 1 April – 30 June | 15 Aug to 31 Oct |
| Turmeric | 1 June | 31 July | 1 March – 30 April | |
| Garlic | 1 October | 30 Nov | 1 April – 15 May | |
| Mango | 1 March | 15 May | 15 June – 31 Aug | |
| Kinnow | 1 Sept | 30 Nov | 1 Dec -28 Feb | |
| Guava | 15 April | 15 May | 1 July - 31 Aug | |
| Litchi | 15 th Jan | 31st March | 15 May to 31 July | |
| Ber | 15 th Sept | 15 th Nov | 1 Feb to 31 March | |

4.11 Determination of Financial Implication: A ten year data of market arrival and wholesale price was studied. On the basis of lowest price in ten years and Base

Price and total arrival in the markets in Haryana, the financial liability has been estimated as under:

Table-2 (Rs. in Crore)

| | One Year Incentive Liability (Rs. in Crore) | | | | |
|------------------------------------|---|---|---------|--|--|
| Sn. | Crop | Minimum rate in the last 10 years and last year produce arrival in the market | | | |
| | | 2017-18 | 2018-19 | | |
| 1 | Potato | 0.00 | 98.24 | | |
| 2 | Onion | 11.35 | 11.35 | | |
| 3 | Tomato | 15.64 | 15.64 | | |
| 4 | Cauliflower | 0.00 | 12.19 | | |
| | Total | 26.99 | 137.42 | | |
| Admn. Charges @5% 1.35 6.87 | | 6.87 | | | |
| | Grand Total | 28.34 | 144.29 | | |

Note: Please refer Annexure-3 to Annexure-6 for detailed calculations of liabilities.

- 4.12 **Incentive Period:** Incentives shall be given only during prescribed Sale Period for particular crop under the scheme.
- **4.13 Mandi Zones :**Seven Mandi Zones have been identified for calculation of zone wise Mode Rate. Zone wise detail is as under:

| Sn. | Name of Zone | Districts under Zone | |
|-----|--------------|---|--|
| 1 | Ambala | Ambala, Yamuna Nagar, Kurukshetra, Panchkula, | |
| 2 | Karnal | Karnal, Panipat, Sonepat | |
| 3 | Rohtak | Rohtak, Jind, Kaithal, Jhajjar | |
| 4 | Gurugram | Gurugram, Nuh | |
| 5 | Hisar | Hisar, Fatehabad, Sirsa | |
| 6 | Bhiwani | Bhiwani, C. Dadri, Rewari, Narnaul | |
| 7 | Faridabad | Faridabad, Palwal | |

- 1. HSAMB will depute Mandi wise In-charge who will ensure online entry of the "H" register on daily basis of that particular Mandi.
- 2. The BBY modal will be determined by the software of HSAMB on daily basis.
- 3. BBY rate of a particular zone will remain applicable of the produce of particular zone only.
- 4. Day wise BBY rate shall be declared separately in all the above seven Mandi Zones on the basis of Mandi wise Mode rate.

4.14 **Dispersal of Incentives**:

- 4.14.1 Dispersal of incentive shall be managed through portal to be maintained by HSAMB.
- 4.14.2 During sale period, if wholesale price of particular commodity/crop falls below the "Base Price", then producer get eligible for incentive. Incentive shall be dispersed on the basis of difference in average daily wholesale price in the market to be fixed and maintained by implementing cell in HSAMB and Base

Price and multiplied by sale quantity on J-Form or Benchmark Yield per acre so fixed whichever is lower.

Incentive = Base Price - (minus) Daily Wholesale Price x (multiply)

Sale Quantity* on J-Form or Benchmark Yield (whichever is lower)

- * Only those farmers who will sale their produce on J-Form shall be considered for incentive. However, upper limit of quantity to be considered for incentive shall be either quantity sold on J-Form or Benchmark Yield so fixed whichever is lower.
- 4.14.3 Average Daily Wholesale Price shall be taken on the basis of <u>average</u> wholesale market rate assessed daily (of Mandi where produce has been sold and neighboring mandis) during the arrival period of produce. The data shall be maintained by the HSAMB on their portal. The payment settlement period shall be in 15 days.
- 4.14.4 The amount of compensation should be apportioned between the land owner and the tenant in ratio in which crop is shared between the two. In case, a fixed rent is payable by the tenant, the tenant will get the entire amount of admissible compensation. The payment to share croppers and *Siris* will be made as per their share of crops in the records of as per local customs. The compensation can also be disbursed on the basis of special power of attorney (SPA) available with the *Siris*/share croppers/ tenants etc.
- 4.14.5 In subsequent years, it will be linked with e-NAM wholesale auction
- 4.14.6 Determination of quantity sold:
 - a. The J- Form shall be the basis of the produce sold in the market and also to determine the quantity of produce sold by the producer in Market Yards or Collection Centres.
 - b. The quantity shall also be assessed on the basis of benchmark yield. The benchmark yield fixed by the Committee is as under:

Table:3

| Sn. | Crop | Benchmark Yield (qt. per acre) |
|-----|--------------|-----------------------------------|
| 1 | Tomato | 140 |
| 2 | Onion | 100 |
| 3 | Potato | 120 |
| 4 | Cauliflower | 100 |
| 5 | Bhindi | 70 |
| 6 | Bottle gourd | 110 |
| 7 | Bitter gourd | 40 |
| 8 | Brinjal | 110 |
| 9 | Carrot | 100 |
| 10 | Cabbage | 100 |
| 11 | Chilli | 70 |
| 12 | Capsicum | 80 |
| 13 | Pea | 50 |
| 14 | Radish | 100 |
| 15 | Turmeric | 80 |
| 16 | Garlic | 50 |
| 17 | Mango | 50 |
| 18 | Guava | 70 |
| 19 | Kinnow | 104 |
| 20 | Ber | 77 |
| 21 | Litchi | 40 |

- c. The J-form shall be issued by purchaser and shall be generated online in subsequent years.
- 4.14.7 The incentive shall be released automatically in Aadhaar Seeded bank account of beneficiary through online process or payment gateway of e-portal.

4.15 Maintenance of Corpus Fund:

- 4.15.1 Department of Horticulture will contribute fund in the form of Grant-in-Aid towards corpus fund to be maintained by HSAMB.
- 4.15.2 Corpus fund shall be replenished by way of fund transfer by Horticulture Department to HSAMB and shall be assessed yearly on the basis of arrival and financial implication of previous year and/or market fees as determined and decided by the Govt.
- 4.15.3 The corpus fund shall be used only for incentivizing the producers under the scheme.

4.16 **Default liabilities on account of producer**:

- 4.16.1 The producer is to ensure his/her registration on e-portal, failing which he/she will not be eligible for incentive under the scheme.
- 4.16.2 The producer is to ensure his/her registration during scheme opening period (period fixed for registration for particular crop). Registration shall remain open during the cultivation period and 15 days after closing date of harvesting period. The period shall be fixed under the scheme for a particular crop.

- 4.16.3 The producer is to ensure his/her sale of produce during fixed sale period in the designated market places in the State.
- 4.16.4 The producer is to obtain J-Form of quantity sold so as to claim the incentives in the scheme.
- 4.17 To ensure that crop pattern doesn't largely change and mono-cropping doesn't happen, State would have following enabling provisions so that maximum no. of beneficiaries may be covered within available budget under the scheme during a year.
 - a. State has the right to limit the Benchmark Yield and total quantity of produce and total area per producer for the purpose of incentive under the scheme.
 - b. State has right to fix the Base Price for determination of maximum incentive that may be provided to one beneficiary.

5. Calculation of BBY Rate:

In addition to BBY rate of the day, there shall be rate cushioning of Rs. 50/- per quintal to the nearest whole point while fixing of BBY rate of the day. The BBY rate shall be Rs. 0/ 50/ 100/ 150/ 200/ 250/ 300/ 350/ 400/ 450 per quintal and if rate falls in between the price range then rate shall be calculated to be nearest whole point. If BBY mode rate of the day for a particular zone is in between Rs. 301/- to Rs. 349/- per qtl. then BBY rate will be fixed as Rs. 300/- per qtl and if it is in between Rs. 351/- to Rs. 399/- then BBY rate will be fixed as Rs. 350/- per qtl.

6. Quality Parameters:

Quality parameters of commodities i.e. Potato, Tomato, Cauliflower & Onion available on e-NAM portal will be adopted for produce of registered farmers under BBY. In case of any issue regarding poor/ unsalable commodity quality, the quality parameters in concerned Mandis, will be assessed by Secretary (Mandi) and HDO of the block concerned. They shall physically check that commodity keeping in view of e-NAM quality parameters and will decide whether the produce is fit for sale or not.

7. Crops to be covered:

- a. Initially only four crops shall be taken under the scheme namely: Potato, Tomato, Onion and Cauliflower
- b. In subsequent years, more crops may be included based on assessment of the market rates of other crops.
- c. List of Crops covered under BBY: (21 crops)

Table:4

| Vegetables | | | | |
|-------------|--------------|-----------------|-----------------|-------------|
| 1. Tomato | 2. Onion | 3. Potato | 4. Cauliflower | 5. Pea |
| 6. Carrot | 7. Bhindi | 8. Bottle Gourd | 9. Bitter Gourd | 10. Brinjal |
| 11. Chilly | 12. Capsicum | 13. Cabbage | 14. Radish | |
| | | Spices | | |
| 1. Turmeric | 2. Garlic | | | |
| Fruits | | | | |
| 1. Kinnow | 2. Guava | 3. Mango | 4.Ber | 5. Litchi |

8. Cost of Cultivation, Base Prices and Benchmark Crop Yield:

- a) The "Base Price and Benchmark Yield" under the scheme shall be fixed and revised (as and when required) by a Committee.
- b) The Govt. vide notification dated 17.08.2016 constituted a Committee and had three meetings on 29-08-2017, 27-11-2017 and on 14.12.2017. The final report on Base Price and Benchmark Yield of identified four crops i.e. potato, onion, tomato & cauliflower determined by the Committee. 4th meeting was convened on 05-04-2019 and protected price of four crops revised on 13.05.2019, 5th meeting was held on 02-07-2019 & 6th meeting was held on 07-11-2019 Base price Bench mark yield Registration Period and Sale period of kinnow, Guava, Carrot, Pea, Capsicum & Brinjal was determined by the Committee. 7th meeting was held on 18-11-2019 Base price Bench mark yield Registration Period and Sale period of Bhindi, Chilli, Bottle gourd, Bitter gourd, Turmeric, Cabbage, Radish, Garlic & Mango was determined by the Committee, 8th meeting was held on 19.03.2021 Base price Bench mark yield Registration Period and Sale period of Litchi & Ber was determined by the Committee.

Table - 5

| Sn. | Стор | Benchmark Yield (qt. per acre) | Protected Price (Rs. per qtl.) |
|-----|--------------|-----------------------------------|-----------------------------------|
| | • | Vegetables | <u> </u> |
| 1 | Tomato | 140 | 500 |
| 2 | Onion | 100 | 650 |
| 3 | Potato | 120 | 600 |
| 4 | Cauliflower | 100 | 750 |
| 5 | Bhindi | 70 | 1050 |
| 6 | Bottle gourd | 110 | 450 |
| 7 | Bitter gourd | 40 | 1350 |
| 8 | Brinjal | 110 | 500 |
| 9 | Carrot | 100 | 700 |
| 10 | Cabbage | 100 | 650 |
| 11 | Chilli | 70 | 950 |
| 12 | Capsicum | 80 | 900 |
| 13 | Pea | 50 | 1100 |
| 14 | Radish | 100 | 450 |
| | -1 | Spices | -1 |
| 15 | Turmeric | 80 | 1400 |
| 16 | Garlic | 50 | 2300 |
| | | Fruits | |
| 17 | Mango | 50 | 1950 |
| 18 | Guava | 70 | 1300 |
| 19 | Kinnow | 104 | 1100 |
| 20 | Ber | 77 | 1500 |
| 21 | Litchi | 40 | 2400 |

9. Budget Provision:

a. After approval of scheme from Govt., the budget shall be transferred as Grant-in-Aid to corpus fund to be maintained by HSAMB.

10. Responsible Agencies:

- a. Horticulture Department shall be responsible for seasonal assessment and data analysis based on the field survey regarding coverage of area and estimated production based on Statistical Methodology.
- b. CCSHAU, ICAR, Haryana Kisan Ayog, HSAMB and Horticulture Department shall determine the Base Price and Benchmark Yield under the scheme as and when required.
- c. Haryana State Agricultural Marketing Board (HSAMB) shall be responsible for maintaining the e-portal and that will be subsequently linked with the e-NAM/e-Girdawari. The payment to beneficiary shall be through this portal to be linked subsequently with payment gateway.

11. Market Intervention by Govt. Agencies for Procurement of Produce

HSAMB will make necessary arrangement for procurement/ disposal of unsold produce of farmer and for this they will set up a Help Desk for farmers in each Fruit and Vegetable Mandi.

1) Record of produce in H-register

- Secretary Market Committee shall ensure to record all the sale proceeds on H-register.
- Online H-register will be maintained for arrival of all the produce of all the farmers in the Mandi instead of pick & choose. The rates on which the produce was sold of individual farmer shall be mentioned in the H-register.
- o Mode rate of that Mandi will be calculated by considering all the sale proceeds during the day on the basis of entries in the H-register. HSAMB shall develop a calculation sheet and that will be linked to BBY Portal.

2) Market Intervention and Modus Operandii

- o HSAMB will set up a Help Desk in each Fruit and Vegetable Market to facilitate the farmers to approach for their unsold produce and other issues.
- o In case, produce of any farmer remains unsold during the day (tomato and cauliflower) and for one or two days (onion and potato). The unsold quantity shall be assessed by Chairman/ Vice-Chairman and Secretary of the concerned Market Committee and they shall intervene to facilitate procurement/ disposal of produce of farmer. For this the Local Market Committee shall designate one/two commission agents.
- The designated commission agents will purchase such produce on the designated day at the last/ lowest price of that day or previous day for that particular commodity.
 - HSAMB shall compensate the agent for the offering last lowest price and also give service charges as decided by HSAMB.
 - HSAMB shall compensate the farmer on the basis of BBY rate of day and protected price.

The quantity so purchased by the agent shall be disposed of by the designated commission agents. The disposal of quantity shall be assessed by Chairman/Vice-Chairman and Secretary of the concerned Market Committee. It will be sold further by commission agent with the permission of them.

12. Scheme Publicity: A wide publicity shall be made through various sources like print and electronic media, awareness camps, orientation and training programs, meeting with producers groups, HSAMB staff, commission agents and other involved stake holders. Mass contact programme shall also be conducted in the form of field days and awareness campaigns under different programmes & schemes of Agriculture & Horticulture Departments.

13. Programme Monitoring:

a. State Level Monitoring Committee (SLMC):

A state level monitoring Committee with following composition will be constituted to monitor and evaluate the program at state level time to time:

1. Chief Secretary Chairman 2. ACS/Finance Member 3. PS/ACS, Food & Supplies Member 4. PS (Agriculture &FW) Member 5. Special Secretary/Revenue Member 6. CGM, NABARD, Chandigarh Member 7. Director, Agriculture & FW Member 8. DG Horticulture Member 9. Director Land Record Member 10. Director Extension, Horticulture University: Member 11. CA, HSAMB Member Sec.

b. District Level Monitoring Committee (DLMC):

A District Level Monitoring Committee with following composition will be constituted to monitor and evaluate the program at district level time to time:

Deputy Commissioner : Chairman
 Deputy Director Agriculture : Member
 District Manager NABARD : Member
 District Horticulture Officer : Member
 District Revenue Officer : Member

6. DMEO, HSAMB : Member Secretary

The State & District Level Monitoring Committees shall review the scheme from time to time and give suggestions for its effective implementation.

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A. Market Arrival of Selected Crops in wholesale markets in Haryana:

(Source: HSAMB) (Arrival in Lakh Qtl.)

| Year | Potato | Onion | Tomato | Cauliflower |
|------|--------|-------|--------|-------------|
| 2008 | 33.44 | 14.45 | - | - |
| 2009 | 41.16 | 15.89 | - | - |
| 2010 | 37.31 | 14.52 | - | - |
| 2011 | 44.63 | 14.76 | 1 | - |
| 2012 | 48.74 | 18.15 | 13.54 | 6.38 |
| 2013 | 40.70 | 17.92 | 14.22 | 6.99 |
| 2014 | 40.09 | 14.33 | 12.23 | 6.90 |
| 2015 | 37.75 | 13.77 | 11.24 | 5.17 |
| 2016 | 39.33 | 14.12 | 10.57 | 5.28 |
| 2017 | 41.64 | 16.70 | 10.79 | 5.30 |

| Year | Kinnow | Guava | Carrot | Pea | Capsicum | Brinjal |
|------|--------|-------|--------|------|----------|---------|
| 2010 | 0.93 | 2.36 | 1.46 | 0.57 | 0.10 | 1.65 |
| 2011 | 1.17 | 1.36 | 6.68 | 3.35 | 0.34 | 1.83 |
| 2012 | 1.47 | 1.92 | 3.97 | 1.88 | 0.73 | 2.60 |
| 2013 | 1.34 | 1.63 | 5.60 | 2.34 | 0.55 | 3.13 |
| 2014 | 1.31 | 1.90 | 6.16 | 3.29 | 0.39 | 2.79 |
| 2015 | 1.49 | 1.12 | 3.05 | 1.74 | 0.24 | 2.33 |
| 2016 | 1.51 | 0.72 | 2.31 | 1.77 | 0.23 | 2.07 |
| 2017 | 1.51 | 0.60 | 1.72 | 1.99 | 0.43 | 2.65 |
| 2018 | 1.41 | 0.88 | 2.68 | 2.27 | 0.43 | 1.76 |
| 2019 | 1.33 | 0.48 | 3.34 | 2.48 | 0.54 | 1.44 |

| Year | Bhindi | chilly | Bottle | Bitter | Radish | Cabbage | Garlic | Turmeric | Mango |
|------|--------|--------|--------|--------|--------|---------|--------|----------|-------|
| | | | gourd | gourd | | | | | |
| 2010 | 0.95 | 1.04 | 1.18 | 0.57 | 2.66 | 1.32 | 0.21 | - | 6.36 |
| 2011 | 1.54 | 1.51 | 1.97 | 0.81 | 2.68 | 2.08 | 0.11 | - | 5.26 |
| 2012 | 2.02 | 1.41 | 1.97 | 0.90 | 2.51 | 2.28 | 0.35 | - | 5.38 |
| 2013 | 6.02 | 1.46 | 1.99 | 1.05 | 3.13 | 2.58 | 0.25 | - | 6.03 |
| 2014 | 1.43 | 0.94 | 1.88 | 0.52 | 2.11 | 1.64 | 0.14 | - | 4.36 |
| 2015 | 1.02 | 0.86 | 2.35 | 0.53 | 1.84 | 1.47 | 0.08 | - | 3.25 |
| 2016 | 1.72 | 1.05 | 4.65 | 1.05 | 1.37 | 1.50 | 0.11 | - | 3.31 |
| 2017 | 1.10 | 1.09 | 3.81 | 0.49 | 2.09 | 2.36 | 0.16 | - | 2.56 |
| 2018 | 1.16 | 0.90 | 2.53 | 0.48 | 1.38 | 1.02 | 0.18 | - | 3.33 |
| 2019 | 1.16 | 0.46 | 2.16 | 0.29 | 0.30 | 0.46 | 0.08 | - | 2.18 |

| Year | Litchi | Ber |
|------|--------|-----|

| 2011 | 0.10 | 0.14 |
|------|------|-------|
| 2012 | 0.04 | 0.19 |
| 2013 | 0.11 | 0.08 |
| 2014 | 0.02 | 0.08 |
| 2015 | 0.04 | 0.08 |
| 2016 | 0.07 | 0.07 |
| 2017 | 0.01 | 0.07 |
| 2018 | 0.04 | 0.09 |
| 2019 | 0.03 | 0.02 |
| 2020 | 0.01 | 0.008 |

| Crop | Potato | Onion | Tomato | Cauliflower | |
|-----------|--------|-------|--------|-------------|--|
| Area (ha) | 34529 | 31005 | 31821 | 39513 | |
| | | | | | |

| Crop | Kinnow | Guava | Carrot | Pea | Capsicum | Brinjal |
|-----------|--------|-------|--------|-------|----------|---------|
| Area (ha) | 21789 | 12595 | 28972 | 15586 | 4430 | 16994 |

| Crop | Bhindi | Chilly | Bottle gourd | Bitter gourd | Radish | Cabbage | Garlic | Turmeric | Mango |
|-----------|--------|--------|-----------------|-----------------|--------|---------|--------|----------|-------|
| Area (ha) | 24334 | 15944 | 24959 | 7482 | 33080 | 21572 | 3293 | 921 | 9563 |

| Crop | Litchi | Ber |
|-----------|--------|------|
| Area (ha) | 223 | 4314 |

B. Production and Productivity of Selected Crops in Haryana (Base Year: 2016-17)

| | Potato | Onion | Tomato | Cauliflower |
|-----------------------------|--------|--------|--------|-------------|
| Production | 93.60 | 61.70 | 64.40 | 61.60 |
| (Lakh Qtl.) | | | | |
| (Horticulture Department) | | | | |
| State Productivity | 99.64 | 92.12 | 93.44 | 64.08 |
| (Qtl./acre) | | | | |
| (Horticulture Department) | | | | |
| Survey Productivity | 134.00 | 102.96 | 167.22 | 92.25 |
| (CCSHAU, Hisar) (Qtl./acre) | | | | |
| Haryana Kisan Aayog | 120.00 | 100.00 | 140.00 | 100.00 |
| (Qtl./acre) | | | | |
| Benchmark yield - | 120.00 | 100.00 | 140.00 | 100.00 |
| (Qtl./acre) | | | | |

| | Kinnow | Guava | Carrot | Pea | Capsicum | Brinjal |
|---------------------------|--------|-------|--------|-------|----------|---------|
| Production | 39.78 | 25.16 | 46.47 | 14.47 | 3.61 | 33.35 |
| (Lakh Qtl.) | | | | | | |
| (Horticulture Department) | | | | | | |

| Productivity | 115.96 | 84.64 | 71.84 | 39.84 | 32.68 | 78.51 |
|---------------------------|--------|-------|-------|-------|-------|-------|
| (Qtl./acre) | | | | | | |
| (Horticulture Department) | | | | | | |
| Productivity (CCSHAU, | 104 | 70 | 100 | 50 | 80 | 110 |
| Hisar) (Qtl./acre) | | | | | | |
| Benchmark yield - | 104 | 70 | 100 | 50 | 80 | 110 |
| (Qtl./acre) | | | | | | |

| | Bhindi | Chilly | Bottle | Bitter | Radish | Cabbage | Garlic | Turmeric | Mango |
|--|--------|--------|--------|--------|--------|---------|--------|----------|-------|
| | | | gourd | gourd | | | | | |
| Production (Lakh Qtl.) (Horticulture Department) | 24.15 | 12.28 | 38.35 | 6.07 | 56.87 | 38.34 | 4.26 | 1.10 | 11.61 |
| Productivity (Qtl./acre) (Horticulture Department) | 41.20 | 29.52 | 56.08 | 32.76 | 68.88 | 56.00 | 44.44 | 18.32 | 37.76 |
| Productivity (CCSHAU, Hisar) (Qtl./acre) | 70 | 70 | 110 | 40 | 100 | 100 | 50 | 80 | 50 |
| Benchmark yield - (Qtl./acre) | 70 | 70 | 110 | 40 | 100 | 100 | 50 | 80 | 50 |

| | Litchi | Ber |
|------------------------------|--------|-------|
| Production | | 41238 |
| (Qtl.) | 2530 | 41236 |
| (Horticulture Department) | | |
| Productivity | | 54.28 |
| (Qtl./acre) | 65.28 | 34.20 |
| (Horticulture Department) | | |
| Productivity (CCSHAU, Hisar) | | _ |
| (Qtl./acre) | - | |
| Benchmark yield -(Qtl./acre) | 40 | 77 |

A. Maximum and Minimum Wholesale Price (Rs. per Qtl.) in wholesale markets in Haryana.

(Source: AgMarket)

| Crop/ Period | Potato (February to | o (February to Onion | | Cauliflower |
|--------------|---------------------|----------------------|---------------|-----------------------|
| | April) | (March to April) | (May to June) | (January to February) |
| | | 10 Year data | | |
| Minimum | 164.08 | 452.00 | 255.21 | 270.58 |
| Maximum | 660.33 | 1399.62 | 1603.08 | 774.97 |
| | | 2016-17 data | | • |
| Minimum | 176.66 | 835.42 | 750.56 | 357.49 |
| Maximum | 279.49 | 1066.67 | 1835.19 | 508.20 |

| Crop/ Period | Kinnow (December to February | Guava (July to August) | Carrot (December to February) | Pea (December to February) | Capsicum (April to June) | Brinjal (February to May) |
|--------------|------------------------------------|------------------------------|-------------------------------------|----------------------------------|--------------------------------|---------------------------------|
| | | 10 | Year data | | | |
| Minimum | 1030.30 | 796.16 | 391.03 | 901.19 | 710.9 | 521.25 |
| Maximum | 2362.35 | 2558.78 | 968.91 | 2060.43 | 1948.73 | 1365.78 |
| | | 20 | 18-19 data | | | |
| Minimum | 1563.24 | 1803.91 | 582.98 | 1340.44 | 1655.17 | 1044.84 |
| Maximum | 2362.35 | 2139.03 | 767.89 | 1656.29 | 2049.34 | 1337.51 |

| Crop/ | Bhindi | Chilly | Bottle | Bitter | Radish | Cabbag | Garlic | Turmeri | Mango |
|---------|---------|---------|---------|---------|--------|--------|---------|---------|---------|
| Period | | | gourd | gourd | | e | | С | |
| | | | | 10 Yea | r data | | | | |
| Minimum | 874.06 | 847.51 | 401.84 | 741.40 | 142.13 | 323 | 1198.87 | - | 1140.44 |
| Maximum | 2304.27 | 2963.59 | 1477.0 | 1980.07 | 573.75 | 1038 | 7365.22 | - | 3812.53 |
| | | | | 2018-1 | 9 data | | | | |
| Minimum | 1875.75 | 1975.66 | 940.0 | 1445.21 | 403.23 | 564 | 2057.31 | - | 2259.83 |
| Maximum | 2304.27 | 2508.0 | 1260.68 | 1883.16 | 525.42 | 717 | 2629.78 | - | 3657.10 |

| Crop/ Period | Litchi | Ber | | | | |
|--------------|--------------|---------|--|--|--|--|
| 10 Year data | | | | | | |
| Minimum | 2573 | 591 | | | | |
| Maximum | 6789.27 | 2187.62 | | | | |
| | 2019-20 data | | | | | |
| Minimum | 3961.55 | 1708.34 | | | | |
| Maximum | 5011.36 | 2187.62 | | | | |

B. Financial Implication (on minimum price of last 10 year and market arrival of 2016-17) (Rs. in crore)

| | One Year Incentive Liability (Rs. in Crore) | | | | | | | |
|-----|---|-------------------------------|---|--|--|--|--|--|
| Sn. | Crop | Minimum rate in the last 10 y | rears and last year produce arrival in the market | | | | | |
| | | 2017-18 | 2018-19 | | | | | |
| 1 | Potato | 0.00 | 98.24 | | | | | |
| 2 | Onion | 11.35 | 11.35 | | | | | |
| 3 | Tomato | 15.64 | 15.64 | | | | | |
| 4 | Cauliflower | 0.00 | 12.19 | | | | | |
| | Total | 26.99 | 137.42 | | | | | |
| | Admn. Charges @5% 1.35 6.87 | | | | | | | |
| | Grand Total | 28.34 | 144.29 | | | | | |

| | One Year Incentive Liability (Rs. In Crore) | | | | | | | |
|-----|---|-----------------------------|---|--|--|--|--|--|
| Sn. | Crop | Minimum rate in the last 10 |) years and last year produce arrival in the market | | | | | |
| | | 2018-19 | 2019-20 | | | | | |
| 1 | Kinnow | 0 | 0 | | | | | |
| 2 | Guava | 0 | 0 | | | | | |
| 3 | Carrot | 10.30 | 10.30 | | | | | |
| 4 | Pea | 4.93 | 4.93 | | | | | |
| 5 | Capsicum | 1.03 | 1.03 | | | | | |
| 6 | Brinjal | 0 | 0 | | | | | |
| | Total | 16.26 | 16.26 | | | | | |
| | Admn. Charges @5% | 0.81 | 0.81 | | | | | |
| | Grand Total | 17.07 | 17.07 | | | | | |

| | (| One Year Incentive Liability (Rs. In Crore) |
|-----|-------------------|---|
| Sn. | Crop | Minimum rate in the last 10 years and last year produce arrival in the market |
| | | 2019-20 |
| 1 | Bhindi | 4.35 |
| 2 | Chilly | 1.10 |
| 3 | Bottle gourd | 4.59 |
| 4 | Bitter gourd | 2.44 |
| 5 | Radish | 0.84 |
| 6 | Cabbage | 1.51 |
| 7 | Garlic | 0.72 |
| 8 | Turmeric | 0.00 |
| 9 | Mango | 5.00 |
| | Total | 20.55 |
| | Admn. Charges @5% | 1.027 |
| | Grand Total | 21.577 |

| | One Year Incentive Liability (Rs. In Crore) | | | | | | |
|---|---|---------|--|--|--|--|--|
| Sn. Crop Minimum rate in the last 10 years and last year produce arrival in the marke | | | | | | | |
| | | 2019-20 | | | | | |
| 1 | 1 Litchi 0.00 | | | | | | |
| 2 | Ber | 0.06 | | | | | |
| | Total | 0.06 | | | | | |
| | Admn. Charges @5% 0.003 | | | | | | |
| | Grand Total | 0.063 | | | | | |

| | | Market Arrival | and Price Trend i | in last 10 years | : | Crop | Potato |
|-----------------------------------|---|----------------|------------------------|------------------|--------------------|-----------------------|-----------|
| | | Whole sa | le market | | | | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Estimate Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2008 | 3343955 | 419.95 | 400 | -19.95 | 0.00 | |
| 2 | 2009 | 4115793 | 164.08 | 400 | 235.92 | 97.10 | |
| 3 | 2010 | 3731400 | 284.52 | 400 | 115.48 | 43.09 | |
| 4 | 2011 | 4463038 | 211.31 | 400 | 188.69 | 84.21 | |
| 5 | 2012 | 4874420 | 506.66 | 400 | -106.66 | 0.00 | |
| 6 | 2013 | 4070247 | 579.31 | 400 | -179.31 | 0.00 | |
| 7 | 2014 | 4008679 | 660.33 | 400 | -260.33 | 0.00 | |
| 8 | 2015 | 3775419 | 430.01 | 400 | -30.01 | 0.00 | |
| 9 | 2016 | 3932600 | 498.24 | 400 | -98.24 | 0.00 | |
| 10 | 2017 | 4164278 | 199.58 | 400 | 200.42 | 83.46 | |
| | | | | Total Lial | bility (in 10 yrs) | 307.86 | |
| | | | | Av. Ye | early liability | 30.79 | |
| Amo bas year & n rate | iability unt on the is of last quantity ninimum in last 10 years | 4164278 | 164.08 | 400 | 235.92 | 982436466 | 98.24 cr. |
| Amo bas year & I | iability unt on the is of last quantity ast year rage rate | 4164278 | 199.58 | 400 | 200.42 | 834604597 | 83.46 cr. |

| | | Market Arriv | al and Price Trend | | Crop | Onion | |
|---|---|-------------------|------------------------|---------------|----------------|--------------------|-----------|
| Sn. | Year | Whole sale market | | Base Price | Difference | Estimate Liability | Remarks |
| | | Arrival | Peak Month Av. Rate | | | | |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2008 | 1444534 | 452.00 | 500 | 48.00 | 6.93 | |
| 2 | 2009 | 1588646 | 887.78 | 500 | -387.78 | 0.00 | |
| 3 | 2010 | 1452044 | 560.71 | 500 | -60.71 | 0.00 | |
| 4 | 2011 | 1475690 | 675.44 | 500 | -175.44 | 0.00 | |
| 5 | 2012 | 1815232 | 687.04 | 500 | -187.04 | 0.00 | |
| 6 | 2013 | 1791537 | 813.66 | 500 | -313.66 | 0.00 | |
| 7 | 2014 | 1433448 | 1049.3 | 500 | -549.3 | 0.00 | |
| 8 | 2015 | 1376936 | 1328.57 | 500 | -828.57 | 0.00 | |
| 9 | 2016 | 1412025 | 1399.62 | 500 | -899.62 | 0.00 | |
| 10 | 2017 | 1670282 | 1066.67 | 500 | -566.67 | 0.00 | |
| | | | | Total Liabili | ty (in 10 yrs) | 6.93 | |
| | | | | Av. Year | ly liability | 0.69 | |
| Amo the I las qua mir rate | ability bunt on basis of t year ntity & himum in last years | 1670282 | 452 | 500 | 48 | 11,35,00,000 | 11.35 cr. |
| Amo the I las qua las | ability bunt on basis of t year ntity & t year age rate | 1670282 | 1066.67 | 500 | -566.67 | 0 | 0 |

| | | Market Arriv | al and Price Trend | in last 10 years: | | Crop | Tomato |
|----------------------------|--|--------------|------------------------|-------------------|----------------|--------------------|-----------|
| | | Whole | sale market | | | | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Estimate Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2008 | 1353980 | 255.21 | 400 | 144.79 | 19.60 | |
| 2 | 2009 | 1353980 | 329.58 | 400 | 70.42 | 9.53 | |
| 3 | 2010 | 1353980 | 523.88 | 400 | -123.88 | 0.00 | |
| 4 | 2011 | 1353980 | 386.87 | 400 | 13.13 | 0.00 | |
| 5 | 2012 | 1353980 | 528.23 | 400 | -128.23 | 0.00 | |
| 6 | 2013 | 1422087 | 453.58 | 400 | -53.58 | 0.00 | |
| 7 | 2014 | 1222867 | 540.60 | 400 | -140.6 | 0.00 | |
| 8 | 2015 | 1124426 | 1603.08 | 400 | -1203.08 | 0.00 | |
| 9 | 2016 | 1057436 | 833.74 | 400 | -433.74 | 0.00 | |
| 10 | 2017 | 1079095 | 806.60 | 400 | -406.6 | 0.00 | |
| | | | | Total Liabili | ty (in 10 yrs) | 29.14 | |
| | | | | Av. Year | y liability | 2.91 | |
| Amo bas year mini | iability unt on the sis of last quantity & mum rate st 10 years | 1079095 | 255 | 400 | 145 | 156468775 | 15.64 cr. |
| Amo bas year la | iability unt on the sis of last quantity & ast year rage rate | 1079095 | 806.6 | 400 | -406.6 | 0 | 0 |

| | | Market Arriva | and Price Tren | | Crop | Cauliflower | |
|----------------------------|---|---------------|------------------------|---------------|----------------|--------------|-----------|
| _ | | Whole sa | le market | _ | | Estimate | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2008 | 638866 | 491.79 | 500 | 8.21 | 0.00 | |
| 2 | 2009 | 638866 | 270.58 | 500 | 229.42 | 14.66 | |
| 3 | 2010 | 638866 | 359.88 | 500 | 140.12 | 8.95 | |
| 4 | 2011 | 638866 | 293.82 | 500 | 206.18 | 13.17 | |
| 5 | 2012 | 638866 | 774.97 | 500 | -274.97 | 0.00 | |
| 6 | 2013 | 699843 | 437.94 | 500 | 62.06 | 4.34 | |
| 7 | 2014 | 690035 | 503.69 | 500 | -3.69 | 0.00 | |
| 8 | 2015 | 517281 | 679.07 | 500 | -179.07 | 0.00 | |
| 9 | 2016 | 528112 | 413.68 | 500 | 86.32 | 4.56 | |
| 10 | 2017 | 530346 | 357.49 | 500 | 142.51 | 7.56 | |
| | | | | Total Liabili | ty (in 10 yrs) | 53.24 | |
| | | | | Av. Yearl | y liability | 5.32 | |
| Amo bas year mini | iability unt on the iis of last quantity & mum rate it 10 years | 530346 | 270 | 500 | 230 | 121979580 | 12.19 cr. |
| Amor bas year la | iability unt on the iis of last quantity & st year rage rate | 530346 | 357.49 | 500 | 142.51 | 75579608 | 7.55 cr. |

| | 1 | Market Arrival | and Price Tren | d in last 10 years: | 1 | Crop | Kinnow |
|------------------------------|---|----------------|---------------------------|---------------------|----------------|--------------------|---------|
| | | Whole sal | e market | | | | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Estimate Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | 92887 | 1175.91 | 1100 | -75.91 | 0.00 | |
| 2 | 2011 | 117454 | 1282.06 | 1100 | -182.06 | 0.00 | |
| 3 | 2012 | 147075 | 1285.26 | 1100 | -185.26 | 0.00 | |
| 4 | 2013 | 134213 | 1333.29 | 1100 | -233.29 | 0.00 | |
| 5 | 2014 | 130797 | 1472.00 | 1100 | -372.00 | 0.00 | |
| 6 | 2015 | 148696 | 1515.43 | 1100 | -415.43 | 0.00 | |
| 7 | 2016 | 150705 | 1619.17 | 1100 | -519.17 | 0.00 | |
| 8 | 2017 | 151020 | 1771.71 | 1100 | -671.71 | 0.00 | |
| 9 | 2018 | 141245 | 1679.44 | 1100 | -579.44 | 0.00 | |
| 10 | 2019 | 133259 | 1853.68 | 1100 | -753.68 | 0.00 | |
| | | | | Total Liabili | ty (in 10 yrs) | 0.00 | |
| | | | | Av. Year | ly liability | 0.00 | |
| Amo bas year o mini | tability unt on the is of last quantity & mum rate at 10 years | 133259 | 1175.91 | 1100 | -75.91 | 0.00 | 0.00 |
| Amo bas year o la | ability unt on the is of last quantity & st year rage rate | 133259 | 1853.68 | 1100 | -753.68 | 0.00 | 0.00 |

| | | Market Arriv | al and Price Tren | d in last 10 years | : | Crop | Guava |
|---|--|--------------|------------------------|--------------------|----------------|-----------------------|---------|
| | | Whole | sale market | | | | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Estimate Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | 236424 | 796.16 | 1300 | +503.84 | 11.91 | |
| 2 | 2011 | 135825 | 1034.48 | 1300 | +265.52 | 3.61 | |
| 3 | 2012 | 192269 | 1047.23 | 1300 | +252.77 | 4.86 | |
| 4 | 2013 | 162506 | 1757.14 | 1300 | -457.14 | 0 | |
| 5 | 2014 | 189808 | 1032.05 | 1300 | +267.95 | 5.08 | |
| 6 | 2015 | 111542 | 1313.11 | 1300 | -13.11 | 0 | |
| 7 | 2016 | 71734 | 2107.07 | 1300 | -807.07 | 0 | |
| 8 | 2017 | 60427 | 2064.50 | 1300 | -764.50 | 0 | |
| 9 | 2018 | 88437 | 1943.98 | 1300 | -643.98 | 0 | |
| 10 | 2019 | 47474 | 2558.78 | 1300 | -1258.78 | 0 | |
| | | | | Total Liabili | ty (in 10 yrs) | | |
| | | | | Av. Year | ly liability | | |
| Amo the t las quar min rate in | ubility ount on oasis of t year ntity & nimum n last 10 ears | 47474 | 796.16 | 1300 | +503.84 | 2.39 | |
| Amo the b las quai las | bility bunt on basis of t year ntity & t year age rate | 47474 | 2558.78 | 1300 | -1258.78 | 0 | |

| | N | Aarket Arrival | Crop | Carrot | | | |
|--------------------------------|---|----------------|------------------------|-------------|------------------|-----------------------|---------|
| Sn. | Year | | sale market | Base Price | Difference | Estimate Liability | Remarks |
| | | Arrival | Peak Month Av. Rate | | | Liability | |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | 145523 | 410.43 | 700 | +289.57 | 4.21 | |
| 2 | 2011 | 667717 | 391.03 | 700 | +308.97 | 20.63 | |
| 3 | 2012 | 396740 | 698.09 | 700 | +1.91 | .07 | |
| 4 | 2013 | 559889 | 582.75 | 700 | +117.25 | 6.56 | |
| 5 | 2014 | 616196 | 456.78 | 700 | +243.22 | 14.98 | |
| 6 | 2015 | 304446 | 876.47 | 700 | -176.47 | 0 | |
| 7 | 2016 | 231349 | 546.96 | 700 | +153.04 | 3.54 | |
| 8 | 2017 | 172381 | 608.95 | 700 | +91.5 | 1.57 | |
| 9 | 2018 | 268346 | 968.91 | 700 | -268.91 | 0 | |
| 10 | 2019 | 333560 | 659.96 | 700 | +40.04 | 1.33 | |
| | | | | Total Liabi | lity (in 10 yrs) | | |
| | | | | Av. Yea | rly liability | | |
| Amor bass year o mini | ability unt on the is of last quantity & mum rate t 10 years | 333560 | 391.03 | 600 | +308.97 | 10.30 | |
| Amor basi year o | ability unt on the is of last quantity & st year rage rate | 333560 | 659.96 | 600 | -59.56 | 0 | |

| | | Market Arriv | : | Crop | Pea | | |
|---|--|--------------|------------------------|---------------|----------------|-----------------------|---------|
| | | Whole | sale market | | | | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Estimate Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | 57426 | 1087.50 | 1100 | +12.5 | 0.07 | |
| 2 | 2011 | 335099 | 1265.09 | 1100 | -165.09 | 0 | |
| 3 | 2012 | 187863 | 901.19 | 1100 | +198.81 | 3.73 | |
| 4 | 2013 | 233886 | 1368.45 | 1100 | -268.45 | 0 | |
| 5 | 2014 | 328691 | 1394.32 | 1100 | -294.32 | 0 | |
| 6 | 2015 | 174337 | 1956.53 | 1100 | -856.53 | 0 | |
| 7 | 2016 | 177291 | 2060.43 | 1100 | -960.43 | 0 | |
| 8 | 2017 | 199215 | 1075.86 | 1100 | +24.14 | 0.48 | |
| 9 | 2018 | 226670 | 1668.83 | 1100 | -568.83 | 0 | |
| 10 | 2019 | 248216 | 1432.76 | 1100 | -332.76 | 0 | |
| | | | | Total Liabili | ty (in 10 yrs) | | |
| | | | | Av. Year | ly liability | | |
| Amo the t las quai min rate in | ubility ount on oasis of t year ntity & nimum n last 10 ears | 248216 | 901.19 | 1100 | +198.81 | 4.93 | |
| Amo the b las quai las | bility bunt on basis of t year ntity & t year age rate | 248216 | 1432.76 | 1100 | -332.76 | 0 | |

| | | Market Arriv | al and Price Tre | nd in last 10 years | : | Crop | Capsicum |
|--|------|--------------|------------------------|----------------------|-----------------|--------------|----------|
| | | Whole | sale market | | | Estimate | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | 10933 | 1033.91 | 900 | -133.91 | 0 | |
| 2 | 2011 | 340052 | 710.9 | 900 | +189.1 | 6.43 | |
| 3 | 2012 | 73702 | 1948.73 | 900 | -1048.73 | 0 | |
| 4 | 2013 | 55442 | 1279.42 | 900 | -379.42 | 0 | |
| 5 | 2014 | 39724 | 904.25 | 900 | -4.25 | 0 | |
| 6 | 2015 | 24088 | 1712.99 | 900 | -812.99 | 0 | |
| 7 | 2016 | 23625 | 1124.28 | 900 | -224.28 | 0 | |
| 8 | 2017 | 43136 | 1306.08 | 900 | -406.08 | 0 | |
| 9 | 2018 | 43053 | 1141.57 | 900 | -241.57 | 0 | |
| 10 | 2019 | 54568 | 1667.5 | 900 | -767.5 | 0 | |
| | | | | Total Liabili | ity (in 10 yrs) | | |
| | | | | Av. Yearly liability | | | |
| Amo the b las quai min rate in | | 54568 | 710.9 | 900 | +189.1 | 1.03 | |
| years Liability Amount on the basis of last year quantity & last year average rate | | 54568 | 1667.5 | 900 | -767.5 | 0 | |

| | | Market Arriv | val and Price Tren | nd in last 10 years | : | Crop | Brinjal |
|---|--|--------------|------------------------|-----------------------------|----------------------|-----------------------|---------|
| | | Whole | sale market | | | | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Estimate Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | 165393 | 521.25 | 500 | -21.25 | 0 | |
| 2 | 2011 | 183405 | 556.52 | 500 | -56.52 | 0 | |
| 3 | 2012 | 259925 | 984.46 | 500 | -484.46 | 0 | |
| 4 | 2013 | 313035 | 998.48 | 500 | -498.48 | 0 | |
| 5 | 2014 | 279428 | 682.99 | 500 | -182.99 | 0 | |
| 6 | 2015 | 233350 | 1103.96 | 500 | -603.96 | 0 | |
| 7 | 2016 | 207069 | 929.65 | 500 | -429.65 | 0 | |
| 8 | 2017 | 265224 | 815.30 | 500 | -315.30 | 0 | |
| 9 | 2018 | 175813 | 990.82 | 500 | -490.82 | 0 | |
| 10 | 2019 | 143922 | 1365.78 | 500 | -865.78 | 0 | |
| | | | | Total Liability (in 10 yrs) | | | |
| | | | | Av. Year | Av. Yearly liability | | |
| Amo the t las quai min rate in | ability bunt on basis of t year ntity & himum n last 10 ears | 143922 | 521.25 | 500 | -21.25 | 0 | |
| Amo the b las quai las | ability bunt on basis of t year ntity & t year age rate | 143922 | 1365.78 | 500 | -865.78 | 0 | |

| | | Market Arri | val and Price Trend in | last 10 years: | | Crop | Bhindi |
|---------------------------------|--|-------------|------------------------|-----------------|-------------|--------------|---------|
| | | Who | ole sale market | | | Estimate | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | 94870 | 808.35 | 1050 | 241.65 | 2.29 | |
| 2 | 2011 | 154029 | 676.48 | 1050 | 373.52 | 5.75 | |
| 3 | 2012 | 202464 | 1084.55 | 1050 | -34.55 | 0.00 | |
| 4 | 2013 | 601703 | 1077.19 | 1050 | -27.19 | 0 | |
| 5 | 2014 | 142924 | 805.5 | 1050 | 244.5 | 0 | |
| 6 | 2015 | 101901 | 1268.06 | 1050 | -218.06 | 0 | |
| 7 | 2016 | 171734 | 1590.68 | 1050 | -540.68 | 0 | |
| 8 | 2017 | 109535 | 1074.34 | 1050 | -24.34 | 0 | |
| 9 | 2018 | 116308 | 1246.06 | 1050 | -196.06 | 0 | |
| 10 | 2019 | 116359 | 1200.63 | 1050 | -150.63 | 0 | |
| | | | | Total Liability | (in 10 yrs) | 8.05 | |
| | | | | Av. Yearly | liability | 0.80 | |
| Amor basi year o minim | iability unt on the is of last quantity & num rate in 10 years | 116359 | 676.48 | 1050 | 373.52 | 4.35 | 0 |
| Amor basi year o | iability unt on the is of last quantity & st year rage rate | 116359 | 1200.63 | 1050 | -150.63 | -1.75 | 0 |

| | | Market Arriv | al and Price Trend ir | a last 10 years: | | Crop | Chilli |
|---------------------------------------|--|--------------|------------------------|------------------|-----------------|-----------------------|---------|
| | | Whole | sale market | | | | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Estimate Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | 103752 | 906.08 | 950 | 43.92 | 0.46 | |
| 2 | 2011 | 151149 | 708.97 | 950 | 241.03 | 3.64 | |
| 3 | 2012 | 141264 | 2603.48 | 950 | -1653.48 | 0.00 | |
| 4 | 2013 | 145733 | 1227.05 | 950 | -277.05 | 0.00 | |
| 5 | 2014 | 94230 | 843.67 | 950 | 106.33 | 1.00 | |
| 6 | 2015 | 86333 | 1230.48 | 950 | -280.48 | 0.00 | |
| 7 | 2016 | 105282 | 2380.67 | 950 | -1430.67 | 0.00 | |
| 8 | 2017 | 108985 | 1767.11 | 950 | -817.11 | 0.00 | |
| 9 | 2018 | 90169 | 1251.27 | 950 | -301.27 | 0.00 | |
| 10 | 2019 | 45602 | 2486.12 | 950 | -1536.12 | 0.00 | |
| | | | | Total Liabili | ity (in 10 yrs) | 5.10 | |
| | | | | Av. Year | ly liability | 0.51 | |
| Amou basi year & m rate i | ability unt on the s of last quantity inimum n last 10 years | 45602 | 708.97 | 950 | 241.03 | 1.10 | |
| Amou basi year & la | ability ant on the s of last quantity ast year age rate | 45602 | 2486.12 | 950 | -1536.12 | -7.01 | |

| | N | Aarket Arrival | s: | Crop | Bottle gourd | | |
|--|---|----------------|------------------------|------------|---------------------|--------------|---------|
| ~ | | Whole sa | le market | | 5.00 | Estimate | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | 118068 | 434.35 | 450 | 15.65 | 0.18 | |
| 2 | 2011 | 197144 | 237.37 | 450 | 212.63 | 4.19 | |
| 3 | 2012 | 196775 | 771.25 | 450 | -321.25 | 0.00 | |
| 4 | 2013 | 199253 | 520.76 | 450 | -70.76 | 0.00 | |
| 5 | 2014 | 187931 | 506.97 | 450 | -56.97 | 0.00 | |
| 6 | 2015 | 234898 | 412.3 | 450 | 37.7 | 0.00 | |
| 7 | 2016 | 464548 | 1151.96 | 450 | -701.96 | 0.00 | |
| 8 | 2017 | 381377 | 623.52 | 450 | -173.52 | 0.00 | |
| 9 | 2018 | 252904 | 921.16 | 450 | -471.16 | 0.00 | |
| 10 | 2019 | 216025 | 740.16 | 450 | -290.16 | 0.00 | |
| | | | | Total Liab | ility (in 10 yrs) | 4.38 | |
| | | | | Av. Ye | arly liability | 0.44 | |
| Amo basis qu minin | Liability ount on the of last year nantity & mum rate in t 10 years | 216025 | 237.37 | 450 | 212.63 | 4.59 | |
| Liability Amount on the basis of last year quantity & last year average rate | | 216025 | 740.16 | 450 | -290.16 | -6.27 | |

| | | Market Arriva | al and Price Tren | d in last 10 year | s: | Crop | Bitter gourd |
|--|---|---------------|------------------------|-------------------|------------------|--------------|--------------|
| | *** | Whole s | ale market | | D. 00 | Estimate | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | 57023 | 520.4 | 1350 | 829.6 | 4.73 | |
| 2 | 2011 | 81163 | 529.7 | 1350 | 820.3 | 6.66 | |
| 3 | 2012 | 90366 | 1002.52 | 1350 | 347.48 | 3.14 | |
| 4 | 2013 | 104835 | 1095.09 | 1350 | 254.91 | 0.00 | |
| 5 | 2014 | 51909 | 704.1 | 1350 | 645.9 | 0.00 | |
| 6 | 2015 | 52654 | 985.28 | 1350 | 364.72 | 0.00 | |
| 7 | 2016 | 104601 | 1468.67 | 1350 | -118.67 | 0.00 | |
| 8 | 2017 | 48905 | 918.87 | 1350 | 431.13 | 2.11 | |
| 9 | 2018 | 47600 | 791.41 | 1350 | 558.59 | 0.00 | |
| 10 | 2019 | 29447 | 1155.42 | 1350 | 194.58 | 0.00 | |
| | | | | Total Liabi | lity (in 10 yrs) | 16.64 | |
| | | | | Av. Yea | arly liability | 1.66 | |
| Amo bas year min in la | iability bunt on the sis of last quantity & imum rate st 10 years | 29447 | 520.4 | 1350 | 829.6 | 2.44 | |
| Liability Amount on the basis of last year quantity & last year average rate | | 29447 | 1155.42 | 1350 | 194.58 | 0.57 | |

| | | Market Arri | val and Price Tren | d in last 10 year | rs: | Crop | Radish |
|---------------------------------------|---|-------------|------------------------|-------------------|--------------------|--------------|---------|
| | | Whole | sale market | | | Estimate | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | 266310 | 169.8 | 450 | 280.2 | 7.46 | |
| 2 | 2011 | 268037 | 257.87 | 450 | 192.13 | 5.15 | |
| 3 | 2012 | 250882 | 320.66 | 450 | 129.34 | 3.24 | |
| 4 | 2013 | 312676 | 379.73 | 450 | 70.27 | 2.20 | |
| 5 | 2014 | 211379 | 318.06 | 450 | 131.94 | 0.00 | |
| 6 | 2015 | 183518 | 439.8 | 450 | 10.2 | 0.19 | |
| 7 | 2016 | 137002 | 276.61 | 450 | 173.39 | 2.38 | |
| 8 | 2017 | 209343 | 301.87 | 450 | 148.13 | 3.10 | |
| 9 | 2018 | 137894 | 446.67 | 450 | 3.33 | 0.05 | |
| 10 | 2019 | 29854 | 446.5 | 450 | 3.5 | 0.01 | |
| | | | | Total Liab | pility (in 10 yrs) | 23.77 | |
| | | | | Av. Ye | early liability | 2.38 | |
| Amou basi year & m rate i | ability int on the s of last quantity inimum in last 10 /ears | 29854 | 169.8 | 450 | 280.2 | 0.84 | |
| Li Amou basi year & la | ability int on the s of last quantity ast year rage rate | 29854 | 446.5 | 450 | 3.5 | 0.01 | |

| | Ma | rket Arrival a | and Price Trend | in last 10 years: | | Crop | Cabbage |
|---|--|----------------|------------------------|-------------------|----------------|--------------|---------|
| | | Whole sa | ale market | | | Estimate | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | 132385 | 323.44 | 650 | 326.56 | 4.32 | |
| 2 | 2011 | 207676 | 613.45 | 650 | 36.55 | 0.76 | |
| 3 | 2012 | 228402 | 435.85 | 650 | 214.15 | 4.89 | |
| 4 | 2013 | 257839 | 405.5 | 650 | 244.5 | 6.30 | |
| 5 | 2014 | 164020 | 432.74 | 650 | 217.26 | 3.56 | |
| 6 | 2015 | 146782 | 900.38 | 650 | -250.38 | 0.00 | |
| 7 | 2016 | 150300 | 462.19 | 650 | 187.81 | 2.82 | |
| 8 | 2017 | 235511 | 411.54 | 650 | 238.46 | 5.62 | |
| 9 | 2018 | 101966 | 1040.39 | 650 | -390.39 | 0.00 | |
| 10 | 2019 | 46171 | 727.24 | 650 | -77.24 | 0.00 | |
| | | | | Total Liabilit | ty (in 10 yrs) | 28.28 | |
| | | | | Av. Yearl | y liability | 2.83 | |
| the ba | ity Amount on asis of last year quantity & num rate in last 10 years | 46171 | 323.44 | 650 | 326.56 | 1.51 | |
| Liability Amount on the basis of last year quantity & last year average rate | | 46171 | 727.24 | 650 | -77.24 | -0.36 | |

| | Ma | rket Arrival a | nd Price Trend | in last 10 years: | | Crop | Garlic |
|------------------------|--|----------------|------------------------|-------------------|-----------------|--------------|---------|
| | | Whole s | ale market | | | Estimate | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | 20522 | 1964.23 | 2300 | 335.77 | 0.69 | |
| 2 | 2011 | 10781 | 2911.92 | 2300 | -611.92 | 0.00 | |
| 3 | 2012 | 35045 | 1599.33 | 2300 | 700.67 | 2.46 | |
| 4 | 2013 | 24560 | 1369.02 | 2300 | 930.98 | 2.29 | |
| 5 | 2014 | 13642 | 2809.78 | 2300 | -509.78 | 0.00 | |
| 6 | 2015 | 8460 | 3291.58 | 2300 | -991.58 | 0.00 | |
| 7 | 2016 | 10568 | 4741.16 | 2300 | -2441.16 | 0.00 | |
| 8 | 2017 | 15980 | 4047.18 | 2300 | -1747.18 | 0.00 | |
| 9 | 2018 | 18459 | 2391.28 | 2300 | -91.28 | 0.00 | |
| 10 | 2019 | 7750 | 3513.79 | 2300 | -1213.79 | 0.00 | |
| | | | | Total Liabil | ity (in 10 yrs) | 5.43 | |
| | | | | Av. Year | ly liability | 0.54 | |
| on t last y & mi | lity Amount he basis of tear quantity inimum rate ast 10 years | 7750 | 1369.02 | 2300 | 930.98 | 0.72 | |
| on t last y & | lity Amount he basis of ear quantity last year erage rate | 7750 | 3513.79 | 2300 | -1213.79 | -0.94 | |

| | M | arket Arrival and P | rice Trend in la | st 10 years: | | Crop | Turmeric |
|--------|--|---------------------|------------------------|--------------|------------------|-----------------|----------|
| G | T 7 | Whole sale | market | p p: | D. cc | Estimate | ъ . |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | | | 1400 | 1400 | 0.00 | |
| 2 | 2011 | | | 1400 | 1400 | 0.00 | |
| 3 | 2012 | | | 1400 | 1400 | 0.00 | |
| 4 | 2013 | | | 1400 | 1400 | 0.00 | |
| 5 | 2014 | | | 1400 | 1400 | 0.00 | |
| 6 | 2015 | not available | not available | 1400 | 1400 | 0.00 | |
| 7 | 2016 | | | 1400 | 1400 | 0.00 | |
| 8 | 2017 | | | 1400 | 1400 | 0.00 | |
| 9 | 2018 | | | 1400 | 1400 | 0.00 | |
| 10 | 2019 | | | 1400 | 1400 | 0.00 | |
| | | | | Total Liabi | lity (in 10 yrs) | 0.00 | |
| | | | | Av. Yea | rly liability | 0.00 | |
| the ba | lity Amount on asis of last year quantity & num rate in last 10 years | | | 1400 | 1400 | 0.00 | |
| the ba | lity Amount on asis of last year tity & last year verage rate | | | 1400 | 1400 | 0.00 | |

| | Ma | Crop | Mango | | | | |
|--|--|---------|------------------------|---------------|----------------|--------------|---------|
| | | Whole | sale market | | | Estimate | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2010 | 636067 | 1721.1 | 1950 | 228.9 | 14.56 | |
| 2 | 2011 | 526107 | 1804.86 | 1950 | 145.14 | 0.00 | |
| 3 | 2012 | 537825 | 1794.98 | 1950 | 155.02 | 8.34 | |
| 4 | 2013 | 602703 | 1899.57 | 1950 | 50.43 | 0.00 | |
| 5 | 2014 | 435999 | 2076.72 | 1950 | -126.72 | 0.00 | |
| 6 | 2015 | 325478 | 2457.6 | 1950 | -507.6 | 0.00 | |
| 7 | 2016 | 331091 | 1919.89 | 1950 | 30.11 | 0.00 | |
| 8 | 2017 | 256171 | 3031.89 | 1950 | -1081.89 | 0.00 | |
| 9 | 2018 | 332929 | 2361.51 | 1950 | -411.51 | 0.00 | |
| 10 | 2019 | 218404 | 3062.56 | 1950 | -1112.56 | 0.00 | |
| | | | | Total Liabili | ty (in 10 yrs) | 22.90 | |
| | | | | Av. Yearl | y liability | 2.29 | |
| on the year | pility Amount ne basis of last ar quantity & imum rate in ast 10 years | 218404 | 1721.1 | 1950 | 228.9 | 5.00 | |
| Liability Amount on the basis of last year quantity & last year average rate | | 218404 | 3062.56 | 1950 | -1112.56 | -24.30 | |

| | N | Iarket Arrival | and Price Trend | in last 10 years: | | Crop | Litchi |
|------------------------|--|----------------|------------------------|-------------------|-------------|-----------------------|---------|
| | | Whole | sale market | | | Estimata | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Estimate Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2011 | 10093 | 4790.99 | 2400 | -2390.99 | 0.00 | |
| 2 | 2012 | 3665 | 4116.93 | 2400 | -1716.93 | 0.00 | |
| 3 | 2013 | 11481 | 3912.18 | 2400 | -1512.18 | 0.00 | |
| 4 | 2014 | 2081 | 4263.01 | 2400 | -1863.01 | 0.00 | |
| 5 | 2015 | 3616 | 5415.97 | 2400 | -3015.97 | 0.00 | |
| 6 | 2016 | 6707 | 8145.8 | 2400 | -5745.8 | 0.00 | |
| 7 | 2017 | 1278 | 5519.81 | 2400 | -3119.81 | 0.00 | |
| 8 | 2018 | 4314 | 6002.08 | 2400 | -3602.08 | 0.00 | |
| 9 | 2019 | 3109.6 | 5771.21 | 2400 | -3371.21 | 0.00 | |
| 10 | 2020 | 1204.6 | 4532.05 | 2400 | -2132.05 | 0.00 | |
| | | | | Total Liability | (in 10 yrs) | 0.00 | |
| | | | | Av. Yearly | liability | 0.00 | |
| on the year mini | ility Amount e basis of last r quantity & imum rate in st 10 years | 1204.6 | 3912.18 | 2400 | -1512.18 | 0.00 | |
| on the | ility Amount e basis of last r quantity & year average rate | 1204.6 | 4532.05 | 2400 | -2132.05 | 0.00 | |

Annexure-21

| | N | Iarket Arriva | l and Price Trend i | n last 10 years: | | Crop | Ber |
|------------------------|--|---------------|------------------------|------------------|-------------|-----------------------|---------|
| | | Whole | sale market | | | To all | |
| Sn. | Year | Arrival | Peak Month Av. Rate | Base Price | Difference | Estimate Liability | Remarks |
| | | Qtl. | Rs. / qtl | Rs. / qtl | Rs. / qtl | Rs. in Crore | |
| 1 | 2011 | 14451 | 752.67 | 1500 | 747.33 | 1.08 | |
| 2 | 2012 | 18895 | 1905.34 | 1500 | -405.34 | 0.00 | |
| 3 | 2013 | 7590 | 1762.26 | 1500 | -262.26 | 0.00 | |
| 4 | 2014 | 8389 | 1340.8 | 1500 | 159.2 | 0.13 | |
| 5 | 2015 | 8443 | 1338.38 | 1500 | 161.62 | 0.14 | |
| 6 | 2016 | 7384 | 1379.49 | 1500 | 120.51 | 0.09 | |
| 7 | 2017 | 7024 | 1561.79 | 1500 | -61.79 | 0.00 | |
| 8 | 2018 | 8637 | 1163.84 | 1500 | 336.16 | 0.29 | |
| 9 | 2019 | 5886 | 1621.02 | 1500 | -121.02 | 0.00 | |
| 10 | 2020 | 833 | 2087.48 | 1500 | -587.48 | 0.00 | |
| | | | | Total Liability | (in 10 yrs) | 1.73 | |
| | | | | Av. Yearly | liability | 0.17 | |
| on t last y & mi | lity Amount he basis of ear quantity mimum rate ast 10 years | 833 | 752.67 | 1500 | 747.33 | 0.06 | |
| on t last y & | lity Amount he basis of ear quantity last year erage rate | 833 | 2087.48 | 1500 | -587.48 | 0.00 | |

Cost of cultivation and returns of Tomato during 2018-19

| 1 2 3 4 5 6 7 8 | Item Preparatory tillage Pre-sowing Irrigation Sowing Ridging Seed (gm) Seed Treatment FYM(qtl) Fertilizer nutrients (a)Nitrogen (b)Phosphatic | Qty 5.37 44.92 34.26 | Val. 2651 400 1130 742 2481 0 1028 | (%) 4.11 0.62 1.75 1.15 3.85 | Qty | Val. 2700 400 1150 750 | (%) 3.62 0.54 1.54 |
|--------------------------------------|---|----------------------|------------------------------------|------------------------------|-------|------------------------|-----------------------------|
| 2 3 4 5 6 7 8 | Pre-sowing Irrigation Sowing Ridging Seed (gm) Seed Treatment FYM(qtl) Fertilizer nutrients (a)Nitrogen (b)Phosphatic | 44.92 34.26 | 400 1130 742 2481 0 | 0.62 1.75 1.15 3.85 | | 400 1150 750 | 0.54 1.54 |
| 3 4 5 6 7 8 | Sowing Ridging Seed (gm) Seed Treatment FYM(qtl) Fertilizer nutrients (a)Nitrogen (b)Phosphatic | 34.26 | 1130 742 2481 0 | 1.75 1.15 3.85 | | 1150 750 | 1.54 |
| 4 5 6 7 8 | Ridging Seed (gm) Seed Treatment FYM(qtl) Fertilizer nutrients (a)Nitrogen (b)Phosphatic | 34.26 | 742 2481 0 | 1.15 3.85 | | 750 | |
| 5 6 7 8 | Seed (gm) Seed Treatment FYM(qtl) Fertilizer nutrients (a)Nitrogen (b)Phosphatic | 34.26 | 2481 | 3.85 | | | 1.01 |
| 6 7 8 | Seed Treatment FYM(qtl) Fertilizer nutrients (a)Nitrogen (b)Phosphatic | 34.26 | 0 | | | | 1.01 |
| 7 8 | FYM(qtl) Fertilizer nutrients (a)Nitrogen (b)Phosphatic | | * | 0 | | 2500 | 3.35 |
| 8 | Fertilizer nutrients (a)Nitrogen (b)Phosphatic | | 1028 | • | | | |
| | (a)Nitrogen (b)Phosphatic | , | | 1.59 | | 1050 | 1.41 |
| | (b)Phosphatic | | | | | | |
| | - | 43.83 | 531 | 0.82 | 65.69 | 387 | 0.52 |
| | | 35.33 | 1459 | 2.26 | 54.35 | 1549 | 2.08 |
| | (c)Potassic | 10.12 | 152 | 0.24 | 33.5 | 636 | 0.85 |
| | (d)Zinc Sulphate | 4.83 | 141 | 0.22 | 0 | 0 | 0.00 |
| | Total Ferti.Invest | | 2283 | 3.54 | | | |
| 9 | Fertilizer Application | | 133 | 0.21 | | 150 | 0.20 |
| 10 | Irrigation | 10.81 | 4134 | 6.41 | | 4200 | 5.63 |
| 11 | Hoeing /Weeding | | | | | | |
| | (a) Chemical | | 385 | 0.6 | | 400 | 0.54 |
| | (b) manual | | 4330 | 6.72 | | 4400 | 5.90 |
| 12 | Plant Protection | | 3723 | 5.78 | | 3750 | 5.03 |
| 13 | Harvesting | | 12358 | 19.17 | | 16000 | 21.45 |
| 14 | Sorting | | 1795 | 2.79 | | 1800 | 2.4 |
| 15 | Miscellaneous | | 177 | 0.27 | | 2500 | 3.35 |
| | Total(1to 15) | | 37749 | 58.57 | | 44322 | |
| 16 | Interest on working Capital | | 1699 | 2.64 | | 1721.25 | 2.31 |
| 17 | Variable cost | | 39448 | 61.21 | | 46043.25 | |
| 18 | Management charges | | 3945 | 6.12 | | 4604.33 | 6.17 |
| 19 | Risk factor | | 3945 | 6.12 | | 2302.16 | 3.09 |
| 20 | Transportation | | 4584 | 7.11 | | 6000 | 8.04 |
| 21 | Market Charges | | 1191 | 1.85 | | 1200 | 1.6 |
| 22 | Packing Charges | | 2408 | 3.74 | | 2450 | 3.28 |
| 23 | Rental value of land | | 8929 | 13.85 | | 12000 | 16.09 |
| 24 | Total Cost with rental value | | 66942 | 100 | | 74599.74 | 100 |
| | Total Cost without rental | | | | | 62599.74 | |
| | value | 1/7.22 | | | | | |
| | Production (qtl.) | 167.22 | | | | | |
| | Cost of production with rental value | | | | | 446.12 | |
| | Cost of production without rental value | | | | | 374.36 | |

Cost of cultivation and returns of Onion during 2018-19

| | District | CCS HAU | recommended duction 2016-17 | cost of | | tee recommend roduction 2019- | |
|------|---|---------|-----------------------------|---------|-------|-------------------------------|-------|
| S.N. | Item | Qty | Val. | (%) | Qty | Val. | (%) |
| 1 | Preparatory tillage | 5.21 | 2615 | 4.15 | | 2700 | 4.14 |
| 2 | Pre-sowing Irrigation | | 457 | 0.73 | | 500 | 0.77 |
| 3 | Sowing | | 8405 | 13.35 | | 8500 | 13.03 |
| 4 | Ridging | | 170 | 0.27 | | 200 | 0.31 |
| 5 | Seed (Kg) | 4.32 | 5364 | 8.52 | | 5400 | 8.28 |
| 6 | Seed Treatment | | 0 | 0 | | | 0.00 |
| 7 | FYM(qtl) | 26.48 | 795 | 1.26 | | 800 | 1.23 |
| 8 | Fertilizer nutrients | | | | | | |
| | (a)Nitrogen | 29.61 | 360 | 0.57 | 91.68 | 540 | 0.83 |
| | (b)Phosphatic | 28.03 | 1162 | 1.85 | 43.48 | 1239 | 1.90 |
| | (c)Potassic | 13.88 | 254 | 0.4 | 16.75 | 318 | 0.49 |
| | (d)Zinc Sulphate | 6.34 | 191 | 0.3 | 0 | 0 | 0.00 |
| | Total Ferti.Invest | | 1968 | 3.12 | | | |
| 9 | Fertilizer Application | | 114 | 0.18 | | 150 | 0.23 |
| 10 | Irrigation | 10.96 | 4493 | 7.13 | | 4500 | 6.90 |
| 11 | Hoeing /Weeding | | | | | | |
| | (a) Chemical | | 679 | 1.08 | | 700 | 1.07 |
| | (b) manual | | 3557 | 5.65 | | 3600 | 5.52 |
| 12 | Plant Protection | | 1074 | 1.71 | | 1100 | 1.69 |
| 13 | Harvesting | | 8123 | 12.9 | | 8200 | 12.57 |
| 14 | Sorting | | 1600 | 2.54 | | 1600 | 2.45 |
| | Ü | | | | | | |
| 15 | Miscellaneous | | 180 | 0.29 | | 200 | 0.31 |
| | Total(1to 15) | | 39595 | 62.87 | | 40247 | |
| 16 | Interest on working Capital | | 1782 | 2.83 | | 1811.25 | 2.78 |
| 17 | Variable cost | | 41376 | 65.7 | | 42058.25 | |
| 18 | Management charges | | 4138 | 6.57 | | 4205.83 | 6.45 |
| 19 | Risk factor | | 4138 | 6.57 | | 2102.91 | 3.22 |
| 20 | Transportation | | 2015 | 3.2 | | 2100 | 3.22 |
| 21 | Market Charges | | 608 | 0.97 | | 650 | 1.00 |
| 22 | Packing Charges | | 2025 | 3.21 | | 2100 | 3.22 |
| 23 | Rental value of land | | 8678 | 13.78 | | 12000 | 18.40 |
| 24 | Total Cost with rental value | | 66942 | 100 | | 65216.99 | 100 |
| 25 | Total Cost without rental | | | | + | 53216.99 | |
| 26 | value Production (qtl.) | 102.96 | | | | | |
| | | 102,90 | | | | (22.42 | |
| 27 | Cost of production with rental value | | | | | 633.42 | |
| 28 | Cost of production without rental value | | | | | 516.87 | |

Cost of cultivation and returns of Potato

| | District | | recommended duction 2016 | | Committee recommended cost of production 2019-20 | | |
|------|---|--------|--------------------------|-------|--|-----------|-------|
| S.N. | Item | Qty | Val. | (%) | Qty | Val. | (%) |
| 1 | Preparatory tillage | 8.17 | 3992 | 5.96 | 8.17 | 4092 | 6.42 |
| 2 | Pre-sowing Irrigation | | 282 | 0.42 | | 290 | 0.46 |
| 3 | Sowing | | 1563 | 2.33 | | 1600 | 2.51 |
| 4 | Ridging | | 701 | 1.05 | | 718 | 1.13 |
| 5 | Seed (qtl) | 11.72 | 11596 | 17.32 | 12 | 11596 | 18.20 |
| 6 | Seed Treatment | | 284 | 0.42 | | 284 | 0.45 |
| 7 | FYM(qtl) | 111.46 | 3344 | 5 | 111.46 | 3344 | 5.25 |
| 8 | Fertilizer nutrients | | | | | | |
| | (a)Nitrogen | 70.06 | 898 | 1.34 | 113.41 | 668 | 1.03 |
| | (b)Phosphatic | 46.29 | 1880 | 2.81 | 43.48 | 1239 | 1.94 |
| | (c)Potassic | 48.86 | 782 | 1.17 | 67 | 1273 | 2.00 |
| | (d)Zinc Sulphate | 6.37 | 172 | 0.26 | 10 | 280 | 0.44 |
| | Total Ferti.Invest | | 3732 | 5.57 | | | |
| 9 | Fertilizer Application | | 162 | 0.24 | | 175 | 0.2 |
| 10 | Irrigation | 5.8 | 1593 | 2.38 | 5.8 | 1600 | 2.5 |
| 11 | Hoeing /Weeding | | | | | | |
| | (a) Chemical | | 495 | 0.74 | | 520 | 0.82 |
| | (b) manual | | 0 | 0 | | | |
| 12 | Plant Protection | | 1365 | 2.04 | | 1400 | 2.20 |
| 13 | Harvesting | | 7332 | 10.95 | | 7698 | 12.0 |
| 14 | Sorting | | 2074 | 3.1 | | 2178 | 3.4 |
| 15 | Miscellaneous | | 127 | 0.19 | | 150 | 0.2 |
| | Total(1to 15) | | 38643 | 57.73 | | 39105 | |
| 16 | Interest on working Capital | | 1739 | 2.6 | | 1860.52 | 2.9 |
| 17 | Variable cost | | 40382 | 60.32 | | 40965.52 | |
| 18 | Management charges | | 4038 | 6.03 | 10% | 4096.552 | 6.4 |
| 19 | Risk factor | | 4038 | 6.03 | 5% | 2048.276 | 3.2 |
| 20 | Transportation | | 2449 | 3.66 | | 2500 | 3.92 |
| 21 | Market Charges | | 344 | 0.51 | | 350 | 0.5 |
| 22 | Packing Charges | | 1669 | 2.49 | | 1754 | 2.73 |
| 23 | Rental value of land | | 14022 | 20.95 | | 12000 | 18.83 |
| 24 | Total Cost with rental value | | 66942 | 100 | | 63714.348 | 100 |
| 25 | Total Cost without rental value | | | | | 51714.348 | |
| 26 | Production (qtl.) | 134.01 | | | | | |
| 27 | Cost of production with rental value | | | | | 475.44 | |
| 28 | Cost of production without rental value | | | | | 385.90 | |

Cost of cultivation and returns of Cauliflower during 2018-19

| | District | CCS HAU | recommend duction 2016 | ed cost of | Committe | e recommended duction 2019-2 | |
|------|---|---------|------------------------|------------|----------|---------------------------------|-------|
| S.N. | Item | Qty | Val. | (%) | Qty | Val. | (%) |
| 1 | Preparatory tillage | 5.86 | 3180 | 4.63 | 5.86 | 3200 | 4.76 |
| 2 | Pre-sowing Irrigation | | 290 | 0.42 | | 300 | 0.45 |
| 3 | Sowing | | 2092 | 3.05 | | 2100 | 3.12 |
| 4 | Ridging | | 1227 | 1.79 | | 1250 | 1.86 |
| 5 | Seed (gm) | 192.07 | 7223 | 10.52 | | 7250 | 10.78 |
| 6 | Seed Treatment | | 0 | 0 | | | |
| 7 | FYM(qtl) | 57.55 | 1725 | 2.51 | | 1725 | 2.56 |
| 8 | Fertilizer nutrients | | | 0 | | | |
| | (a)Nitrogen | 71.48 | 886 | 1.29 | 91.68 | 540 | 0.80 |
| | (b)Phosphatic | 27.96 | 1141 | 1.66 | 43.48 | 1239 | 1.84 |
| | (c)Potassic | 21.2 | 389 | 0.57 | 33.5 | 636 | 0.95 |
| | (d)Zinc Sulphate | 6.35 | 203 | 0.3 | 10 | 280 | 0.42 |
| | Total Ferti.Invest | | 2619 | 3.81 | | | |
| 9 | Fertilizer Application | | 222 | 0.32 | | 250 | 0.37 |
| 10 | Irrigation | 9.29 | 2706 | 3.94 | | 2750 | 4.09 |
| 11 | Hoeing /Weeding | | | 0 | | | |
| | (a) Chemical | | 348 | 0.51 | | 350 | 0.52 |
| | (b) manual | | 5275 | 7.68 | | 5300 | 7.88 |
| 12 | Plant Protection | | 4690 | 6.83 | | 4700 | 6.99 |
| 13 | Harvesting | | 5695 | 8.29 | | 5700 | 8.47 |
| 14 | Sorting | | 1176 | 1.71 | | 1200 | 1.78 |
| 15 | Miscellaneous | | 224 | 0.33 | | 250 | 0.37 |
| | Total(1to 15) | | 38690 | 56.34 | | 39020 | |
| 16 | Interest on working Capital | | 1741 | 2.54 | | 1814 | 2.70 |
| 17 | Variable cost | | 40431 | 58.88 | | 40834 | |
| 18 | Management charges | | 4043 | 5.89 | | 4083.4 | 6.07 |
| 19 | Risk factor | | 4043 | 5.89 | | 2041.7 | 3.04 |
| 20 | Transportation | | 6663 | 9.7 | | 6700 | 9.96 |
| 21 | Market Charges | | 951 | 1.39 | | 1000 | 1.49 |
| 22 | Packing Charges | | 517 | 0.75 | | 600 | 0.89 |
| 23 | Rental value of land | | 12020 | 17.5 | | 12000 | 17.84 |
| 24 | Total Cost with rental value | | 66942 | 100 | | 67259.10 | 100 |
| 25 | Total Cost without rental value | | | | | 55259.10 | |
| 26 | Production (qtl.) | 92.25 | | | | | |
| 27 | Cost of production with rental value | | | | | 729.10 | |
| 28 | Cost of production without rental value | | | | | 599.01 | |

Cost of cultivation and returns of Bhindi during 2019-20

| S.N. | Committee recommended cost of production Item | Qty | Per acre | (%) |
|-------|--|-----|------------|-------|
| 9.14. | Teni | Qiy | cost (Rs.) | (70) |
| 1 | Preparatory tillage | 6 | 3000 | 4.09 |
| 2 | Pre-sowing Irrigation | | 300 | 0.41 |
| 3 | Sowing/ Transplanting | | 3000 | 4.09 |
| 4 | Ridging | | 800 | 1.09 |
| 5 | Seed (Kg) | 18 | 4500 | 6.13 |
| 6 | Seed Treatment | | 0 | 0.00 |
| 7 | FYM(qtl) | 100 | 3000 | 4.09 |
| 8 | Fertilizer nutrients | | | |
| | (a)Urea | 68 | 360 | 0.49 |
| | (b)DAP | 50 | 1250 | 1.70 |
| | (c)MOP | 0 | 0 | 0.00 |
| | (d)Zinc Sulphate | 0 | 0 | 0.00 |
| | Total Ferti.Invest | | | |
| 9 | Fertilizer Application | | 150 | 0.20 |
| 10 | Irrigation | 6 | 3000 | 4.09 |
| 11 | Hoeing /Weeding | | | |
| | (a) Chemical | | 525 | 0.72 |
| | (b) manual | | 4000 | 5.45 |
| 12 | Plant Protection | | 2000 | 2.72 |
| 13 | Harvesting | | 15000 | 20.43 |
| 14 | Sorting | | 1000 | 1.36 |
| 15 | Miscellaneous | | 200 | 0.27 |
| | Total(1to 15) | | 42085 | |
| 16 | Interest on working Capital (4.5%) | | 1893.83 | 2.58 |
| 17 | Variable cost (VC) | | 43978.83 | |
| 18 | Management charges (10% VC) | | 4397.88 | 5.99 |
| 19 | Risk factor (5% VC) | | 2198.94 | 2.99 |
| 20 | Transportation | | 2500 | 3.40 |
| 21 | Market Charges (Loading/unloading) | | 350 | 0.48 |
| 22 | Packing Charges | | 2000 | 2.72 |
| 23 | Rental value of land (6 months) | | 18000 | 24.51 |
| 24 | Total Cost | | 73425.65 | 100 |
| 25 | Production (qtl.) | 70 | | |
| 26 | Cost of production | | 1048.94 | |
| 27 | Recommended base Price per qtl. for the year 2019-20 | | 1050 | |

Cost of cultivation and returns of Cucumber during 2019-20

| | Committee recommended cost of production 2019- | 20 (Rs. pe | r acre) | |
|------|--|------------|---------------------|-------|
| S.N. | Item | Qty | Per acre cost (Rs.) | (%) |
| 1 | Preparatory tillage | 6 | 3000 | 5.74 |
| 2 | Pre-sowing Irrigation | | 300 | 0.57 |
| 3 | Sowing/ Transplanting | | 1500 | 2.87 |
| 4 | Ridging | | 600 | 1.15 |
| 5 | Seed (Kg) | 1.5 | 3000 | 5.74 |
| 6 | Seed Treatment | | 0 | 0.00 |
| 7 | FYM(qtl) | 60 | 1800 | 3.44 |
| 8 | Fertilizer nutrients | | | |
| | (a)Urea | 34 | 180 | 0.34 |
| | (b)DAP | 25 | 625 | 1.19 |
| | (c)MOP | 16 | 304 | 0.58 |
| | (d)Zinc Sulphate | 0 | 0 | 0.00 |
| | Total Ferti.Invest | | | |
| 9 | Fertilizer Application | | 150 | 0.29 |
| 10 | Irrigation | 6 | 3000 | 5.74 |
| 11 | Hoeing /Weeding | | | |
| | (a) Chemical | | 0 | 0.00 |
| | (b) manual | | 2000 | 3.82 |
| 12 | Plant Protection | | 2000 | 3.82 |
| 13 | Harvesting | | 6000 | 11.47 |
| 14 | Sorting | | 600 | 1.15 |
| 15 | Miscellaneous | | 200 | 0.38 |
| | Total(1to 15) | | 25259 | |
| 16 | Interest on working Capital (4.5%) | | 1136.66 | 2.17 |
| 17 | Variable cost (VC) | | 26395.66 | |
| 18 | Management charges (10% VC) | | 2639.57 | 5.05 |
| 19 | Risk factor (5% VC) | | 1319.78 | 2.52 |
| 20 | Transportation | | 2100 | 4.01 |
| 21 | Market Charges (Loading/ unloading) | | 350 | 0.67 |
| 22 | Packing Charges | | 1500 | 2.87 |
| 23 | Rental value of land (6 months) | | 18000 | 34.41 |
| 24 | Total Cost | | 52305.00 | 100 |
| 25 | Production (qtl.) | 50 | | |
| 26 | Cost of production | | 1046.10 | |
| 27 | Recommended base Price per qtl. for the year 2019-20 | | 450 | |

Cost of cultivation and returns of Bitter gourd during 2019-20

| S.N. | Item | Qty | Per acre cost (Rs.) | (%) |
|------|--|-----|---------------------|-------|
| 1 | Preparatory tillage | 4 | 2000 | 3.65 |
| 2 | Pre-sowing Irrigation | | 300 | 0.55 |
| 3 | Sowing/ Transplanting | | 2000 | 3.65 |
| 4 | Ridging | | 800 | 1.46 |
| 5 | Seed (Kg) | 1.5 | 4500 | 8.22 |
| 6 | Seed Treatment | | 0 | 0.00 |
| 7 | FYM(qtl) | 60 | 1800 | 3.29 |
| 8 | Fertilizer nutrients | | | |
| | (a)Urea | 34 | 180 | 0.33 |
| | (b)DAP | 25 | 625 | 1.14 |
| | (c)SSP | 0 | 0 | 0.00 |
| | (d)MOP | 16 | 304 | 0.56 |
| | Total Ferti.Invest | | | |
| 9 | Fertilizer Application | | 150 | 0.27 |
| 10 | Irrigation | 6 | 3000 | 5.48 |
| 11 | Hoeing /Weeding | | | |
| | (a) Chemical | | 0 | 0.00 |
| | (b) manual | | 2000 | 3.65 |
| 12 | Plant Protection | | 2000 | 3.65 |
| 13 | Harvesting | | 6000 | 10.96 |
| 14 | Sorting | | 1000 | 1.83 |
| 15 | Miscellaneous | | 200 | 0.37 |
| | Total(1to 15) | | 26859 | |
| 16 | Interest on working Capital (4.5%) | | 1208.66 | 2.21 |
| 17 | Variable cost (VC) | | 28067.66 | |
| 18 | Management charges (10% VC) | | 2806.77 | 5.13 |
| 19 | Risk factor (5% VC) | | 1403.38 | 2.56 |
| 20 | Transportation | | 2100 | 3.84 |
| 21 | Market Charges (Loading/unloading) | | 350 | 0.64 |
| 22 | Packing Charges | | 2000 | 3.65 |
| 23 | Rental value of land (6 months) | | 18000 | 32.89 |
| 24 | Total Cost | | 54727.80 | 100 |
| 25 | Production (qtl.) | 40 | | |
| 26 | Cost of production | | 1368.20 | |
| 27 | Recommended base Price per qtl. for the year 2019-20 | | 1350 | |

Cost of cultivation and returns of Bitter gourd during 2019-20

| | District | Committee recommended cost of production 2019-20 | | | | |
|------|--|--|----------|-------|--|--|
| S.N. | Item | Qty | Val. | (%) | | |
| 1 | Preparatory tillage | 6 | 3000 | 5.66 | | |
| 2 | Pre-sowing Irrigation | | 300 | 0.57 | | |
| 3 | Sowing | | 1500 | 2.83 | | |
| 4 | Ridging | | 200 | 0.38 | | |
| 5 | Seed (Kg) | 0.1 | 2000 | 3.77 | | |
| 6 | Seed Treatment | | 150 | 0.28 | | |
| 7 | FYM(qtl) | 80 | 2400 | 4.53 | | |
| 8 | Fertilizer nutrients | | | | | |
| | (a)Nitrogen | 12 | 132.5 | 0.25 | | |
| | (b)Phosphatic | 20 | 875 | 1.65 | | |
| | (c)Potassic | 0 | 0 | 0.00 | | |
| | (d)Zinc Sulphate | 0 | 0 | 0.00 | | |
| | Total Ferti.Invest | | | | | |
| 9 | Fertilizer Application | | 150 | 0.28 | | |
| 10 | Irrigation | 4 | 2000 | 3.77 | | |
| 11 | Hoeing /Weeding | | | | | |
| | (a) Chemical | | 525 | 0.99 | | |
| | (b) manual | | 2000 | 3.77 | | |
| 12 | Plant Protection | | 2000 | 3.77 | | |
| 13 | Harvesting | | 8000 | 15.09 | | |
| 14 | Sorting | | 0 | 0.00 | | |
| 15 | Miscellaneous | | 200 | 0.38 | | |
| 13 | Total(1to 15) | | 25432.5 | 0.30 | | |
| 16 | Interest on working Capital | 4.50% | 1144.44 | 2.16 | | |
| | ٠ ، | 4.50% | | 2.10 | | |
| 17 | Variable cost (VC) | 100/ | 26576.94 | 5.01 | | |
| 18 | Management charges (10% VC) | 10% | 2657.69 | 5.01 | | |
| 19 | Risk factor (5% VC) | 5% | 1328.85 | 2.51 | | |
| 20 | Transportation | | 2100 | 3.96 | | |
| 21 | Market Charges (Loading & unloading) | | 350 | 0.66 | | |
| 22 | Packing Charges | | 2000 | 3.77 | | |
| 23 | Rental value of land (6 months) | | 18000 | 33.95 | | |
| 24 | Total Cost with rental value | | 53013.48 | 100 | | |
| 25 | Total Cost without rental value | | 41013.48 | | | |
| 26 | Production (qtl.) | | 110.00 | | | |
| 27 | Cost of production with rental value | | 481.94 | | | |
| 28 | Cost of production without rental value | | 372.85 | | | |
| 29 | Recommended base Price per qtl. for the year 2019-20 | | 500 | | | |

Cost of cultivation and returns of Carrot 2019-20

| | Committee recommended co | st of produ | | |
|------|--|---------------|---------------------|-------|
| S.N. | Item | Qty | Per acre cost (Rs.) | (%) |
| 1 | Preparatory tillage | 8 | 4000 | 5.94 |
| 2 | Pre-sowing Irrigation | | 300 | 0.45 |
| 3 | Sowing | | 1600 | 2.38 |
| 4 | Ridging | | 800 | 1.19 |
| 5 | Seed (kg) | 5 | 2500 | 3.71 |
| 6 | Seed Treatment | | 300 | 0.45 |
| 7 | FYM(qtl) | 200 | 6000 | 8.91 |
| 8 | Fertilizer nutrients | | | |
| | (a)Nitrogen | 24 | 265 | 0.39 |
| | (b)Phosphatic | 12 | 525 | 0.78 |
| | (c)Potassic | 12 | 475 | 0.71 |
| | (d)Zinc Sulphate | 0 | 0 | 0.00 |
| | Total Ferti.Invest | | | |
| 9 | Fertilizer Application | | 200 | 0.30 |
| 10 | Irrigation | 5 | 2000 | 2.97 |
| 11 | Hoeing /Weeding | | | |
| | (a) Chemical | | 0 | 0.00 |
| | (b) manual | | 2000 | |
| 12 | Plant Protection | | 0 | 0.00 |
| 13 | Harvesting | | 10000 | 14.85 |
| 14 | Sorting | | 5000 | 7.42 |
| 15 | Miscellaneous | | 200 | 0.30 |
| | Total(1to 15) | | 36165 | |
| 16 | Interest on working Capital | 4.5% | 1627.42 | 2.42 |
| 17 | Variable cost (VC) | | 37792.42 | |
| 18 | Management charges (10% VC) | 10% | 3779.242 | 5.61 |
| 19 | Risk factor (5% VC) | 5% | 1889.621 | 2.81 |
| 20 | Transportation | lump- sump | 2500 | 3.71 |
| 21 | Market Charges (loading & unloading) | • | 1400 | 2.08 |
| 22 | Packing Charges | | 2000 | 2.97 |
| 23 | Rental value of land (6 months) | | 18000 | 26.72 |
| 24 | Total Cost with rental value | | 67361.283 | 100 |
| 25 | Total Cost without rental value | | 55361.283 | |
| 26 | Production (qtl. per acre) | | 100.00 | |
| 27 | Cost of production with rental value Rs. per qtl. | | 673.61 | |
| 28 | Cost of production without rental value Rs. per qtl. | | 553.61 | |
| 29 | Recommended base price per qtl. for the year 2019-20 | | 700 | |

Cost of cultivation and returns of Cabbage during 2019-20

| S.N. | Item | Qty | Per acre cost (Rs.) | (%) |
|------|--|-----|---------------------|-------|
| 1 | Preparatory tillage | 6 | 3000 | 4.47 |
| 2 | Pre-sowing Irrigation | | 300 | 0.45 |
| 3 | Sowing | | 2000 | 2.98 |
| 4 | Ridging | | 800 | 1.19 |
| 5 | Seed (gm) | 250 | 7500 | 11.17 |
| 6 | Seed Treatment | | 0 | |
| 7 | FYM(qtl) | 200 | 6000 | 8.94 |
| 8 | Fertilizer nutrients | | | |
| | (a)Urea | 90 | 477 | 0.71 |
| | (b)DAP | 50 | 1250 | 1.86 |
| | (c)MOP | 32 | 608 | 0.91 |
| | (d)Zinc Sulphate | 10 | 500 | 0.74 |
| | Total Ferti.Invest | | | |
| 9 | Fertilizer Application | | 250 | 0.37 |
| 10 | Irrigation | | 2750 | 4.10 |
| 11 | Hoeing /Weeding | | | |
| | (a) Chemical | | 350 | 0.52 |
| | (b) manual | | 4000 | 5.96 |
| 12 | Plant Protection | | 2000 | 2.98 |
| 13 | Harvesting | | 6000 | 8.94 |
| 14 | Sorting | | 1000 | 1.49 |
| 15 | Miscellaneous | | 200 | 0.30 |
| | Total(1to 15) | | 38985 | |
| 16 | Interest on working Capital (4.5%) | | 1754 | 2.61 |
| 17 | Variable cost | | 40739 | |
| 18 | Management charges (10%) | | 4074 | 6.07 |
| 19 | Risk factor (5%) | | 2037 | 3.03 |
| 20 | Transportation | | 6700 | 9.98 |
| 21 | Market Charges | | 1000 | 1.49 |
| 22 | Packing Charges | | 600 | 0.89 |
| 23 | Rental value of land (4 months) | | 12000 | 17.87 |
| 24 | Total Cost | | 67150 | 100 |
| 25 | Production (qtl.) | 100 | | |
| 26 | Cost of production | | 672 | |
| 27 | Recommended base Price per qtl. for the year 2019-20 | | 650 | |

Cost of cultivation and returns of Chilly during 2019-20

| | Committee recommended cost of production 2 | 2019-20 (Rs. p | oer acre) | |
|----------|--|----------------|---------------------|-------|
| S.N. | Item | Qty | Per acre cost (Rs.) | (%) |
| 1 | Preparatory tillage | 6 | 3000 | 4.59 |
| 2 | Pre-sowing Irrigation | | 300 | 0.46 |
| 3 | Sowing/ Transplanting | | 2000 | 3.06 |
| 4 | Ridging | | 800 | 1.22 |
| 5 | Seed (Kg) | 0.1 | 2500 | 3.82 |
| 6 | Seed Treatment | | 0 | 0.00 |
| 7 | FYM(qtl) | 100 | 3000 | 4.59 |
| 8 | Fertilizer nutrients | | | |
| | (a)Urea | 45 | 240 | 0.37 |
| | (b)DAP | 25 | 625 | 0.96 |
| | (c)MOP | 20 | 380 | 0.58 |
| | (d)Zinc Sulphate | 0 | 0 | 0.00 |
| | Total Ferti.Invest | | | |
| 9 | Fertilizer Application | | 150 | 0.23 |
| 10 | Irrigation | 6 | 3000 | 4.59 |
| 11 | Hoeing /Weeding | | | |
| | (a) Chemical | | 525 | 0.80 |
| | (b) manual | | 4000 | 6.12 |
| 12 | Plant Protection | | 2000 | 3.06 |
| 13 | Harvesting | | 12000 | 18.36 |
| 14 | Sorting | | 1000 | 1.53 |
| 15 | Miscellaneous | | 200 | 0.31 |
| | Total(1to 15) | | 35720 | |
| 16 | Interest on working Capital (4.5%) | | 1607.40 | 2.46 |
| 17 | Variable cost (VC) | | 37327.40 | |
| 18 | Management charges (10% VC) | | 3732.74 | 5.71 |
| 19 | Risk factor (5% VC) | | 1866.37 | 2.85 |
| 20 | Transportation | | 2100 | 3.21 |
| 21 | Market Charges (Loading/ unloading) | | 350 | 0.54 |
| 22 | Packing Charges | | 2000 | 3.06 |
| 23 | Rental value of land (6 months) | | 18000 | 27.53 |
| 24 | Total Cost | =0 | 65376.51 | 100 |
| 25 26 | Production (qtl.) Cost of production | 70 | 933.95 | |
| 27 | Recommended base Price per qtl. for the year 2019-20 | | 953.95 | |

Cost of cultivation and returns of Capsicum during 2019-20

| | Committee recommended cost of production 2019-20 | | | | | | |
|------|--|------|----------|-------|--|--|--|
| S.N. | Item | Qty | Val. | (%) | | | |
| 1 | Preparatory tillage | 6 | 3000 | 4.31 | | | |
| 2 | Pre-sowing Irrigation | | 300 | 0.43 | | | |
| 3 | Sowing/ Transplanting | | 2000 | 2.87 | | | |
| 4 | Ridging | | 800 | 1.15 | | | |
| 5 | Seed (Kg) | 0.15 | 15000 | 21.55 | | | |
| 6 | Seed Treatment | | 0 | 0.00 | | | |
| 7 | FYM(qtl) | 100 | 3000 | 4.31 | | | |
| 8 | Fertilizer nutrients | | | | | | |
| | (a)Nitrogen | 25 | 265 | 0.38 | | | |
| | (b)Phosphatic | 12 | 625 | 0.90 | | | |
| | (c)Potassic | 12 | 380 | 0.55 | | | |
| | (d)Zinc Sulphate | 0 | 0 | 0.00 | | | |
| | Total Ferti.Invest | | | | | | |
| 9 | Fertilizer Application | | 150 | 0.22 | | | |
| 10 | Irrigation | 6 | 3000 | 4.31 | | | |
| 11 | Hoeing /Weeding | | | | | | |
| | (a) Chemical | | 525 | 0.75 | | | |
| | (b) manual | | 4000 | 5.75 | | | |
| 12 | Plant Protection | | 2000 | 2.87 | | | |
| 13 | Harvesting | | 8000 | 11.49 | | | |
| 14 | Sorting | | 1000 | 1.44 | | | |
| 15 | Miscellaneous | | 200 | 0.29 | | | |
| | Total(1to 15) | | 44245 | | | | |
| 16 | Interest on working Capital | | 1991.02 | 2.86 | | | |
| 17 | Variable cost (VC) | | 46236.02 | | | | |
| 18 | Management charges (10% VC) | | 4623.60 | 6.64 | | | |
| 19 | Risk factor (5% VC) | | 2311.80 | 3.32 | | | |
| 20 | Transportation | | 2100 | 3.02 | | | |
| 21 | Market Charges (Loading/unloading) | | 350 | 0.50 | | | |
| 22 | Packing Charges | | 2000 | 2.87 | | | |
| 23 | Rental value of land (4 months) | | 12000 | 17.24 | | | |
| 24 | Total Cost with rental value | | 69621.42 | 100 | | | |
| 25 | Total Cost without rental value | | 57621.42 | | | | |
| 26 | Production (qtl.) | | 80.00 | | | | |
| 27 | Cost of production with rental value | | 870.27 | | | | |
| 28 | Cost of production without rental value | | 720.27 | | | | |
| 29 | Recommended base Price per qtl. for the year 2019-20 | | 900 | | | | |

Cost of cultivation and returns of Pea during 2019-20

| Committee recommended cost of production 2019-20 | | | | | | | |
|--|--|-----|----------|-------|--|--|--|
| S.N. | Item | Qty | Val. | (%) | | | |
| 1 | Preparatory tillage | 6 | 3000 | 5.59 | | | |
| 2 | Pre-sowing Irrigation | | 300 | 0.56 | | | |
| 3 | Sowing | | 1500 | 2.80 | | | |
| 4 | Ridging | | 200 | 0.37 | | | |
| 5 | Seed (Kg) | 30 | 1500 | 2.80 | | | |
| 6 | Seed Treatment | | 150 | 0.28 | | | |
| 7 | FYM(qtl) | 80 | 2400 | 4.48 | | | |
| 8 | Fertilizer nutrients | | | | | | |
| | (a)Nitrogen | 12 | 132.5 | 0.25 | | | |
| | (b)Phosphatic | 20 | 875 | 1.63 | | | |
| | (c)Potassic | 0 | 0 | 0.00 | | | |
| | (d)Zinc Sulphate | 0 | 0 | 0.00 | | | |
| | Total Ferti.Invest | | | | | | |
| 9 | Fertilizer Application | | 150 | 0.28 | | | |
| 10 | Irrigation | | 2000 | 3.73 | | | |
| 11 | Hoeing /Weeding | | | | | | |
| | (a) Chemical | | 525 | 0.98 | | | |
| | (b) manual | | 2000 | 3.73 | | | |
| 12 | Plant Protection | | 1000 | 1.86 | | | |
| 13 | Harvesting and Sorting | | 15000 | 27.97 | | | |
| 15 | Miscellaneous | | 200 | 0.37 | | | |
| | Total(1to 15) | | 30932.5 | | | | |
| 16 | Interest on working Capital | | 1392.00 | 2.60 | | | |
| 17 | Variable cost (VC) | | 32324.50 | | | | |
| 18 | Management charges (10% VC) | | 3232.45 | 6.03 | | | |
| 19 | Risk factor (5% VC) | | 1616.23 | 3.01 | | | |
| 20 | Transportation | | 2100 | 3.92 | | | |
| 21 | Market Charges (loading/unloading) | | 350 | 0.65 | | | |
| 22 | Packing Charges | | 2000 | 3.73 | | | |
| 23 | Rental value of land (4 months) | | 12000 | 22.38 | | | |
| 24 | Total Cost with rental value | | 53623.18 | 100 | | | |
| 25 | Total Cost without rental value | | 41623.18 | | | | |
| 26 | Production (qtl.) | | 50.00 | | | | |
| 27 | Cost of production with rental value | | 1072.46 | | | | |
| 28 | Cost of production without rental value | | 832.46 | | | | |
| 29 | Recommended base Price per qtl. for the year 2019-20 | | 1100 | | | | |

Cost of cultivation and returns of Radish 2019-20

| Committee recommended cost of production 2019-20 (Rs. per acre) | | | | | |
|---|--|-----|---------------------|-------|--|
| S.N. | Item | Qty | Per acre cost (Rs.) | (%) | |
| 1 | Preparatory tillage | 6 | 3000 | 6.45 | |
| 2 | Pre-sowing Irrigation | | 300 | 0.64 | |
| 3 | Sowing | | 1600 | 3.44 | |
| 4 | Ridging | | 800 | 1.72 | |
| 5 | Seed (kg) | 3 | 1200 | 2.58 | |
| 6 | Seed Treatment | | 300 | 0.64 | |
| 7 | FYM(qtl) | 200 | 6000 | 12.90 | |
| 8 | Fertilizer nutrients | | | | |
| | (a)Urea | 50 | 265 | 0.57 | |
| | (b)DAP | 50 | 1250 | 2.69 | |
| | (c)SSP | 0 | 0 | 0.00 | |
| | (d)MOP | 16 | 304 | 0.65 | |
| | Total Ferti.Invest | | | | |
| 9 | Fertilizer Application | | 200 | 0.43 | |
| 10 | Irrigation | 5 | 2000 | 4.30 | |
| 11 | Hoeing /Weeding | | | | |
| | (a) Chemical | | 0 | 0.00 | |
| | (b) manual | | 2000 | | |
| 12 | Plant Protection | | 0 | 0.00 | |
| 13 | Harvesting | | 4000 | 8.60 | |
| 14 | Sorting | | 400 | 0.86 | |
| 15 | Miscellaneous | | 200 | 0.43 | |
| | Total(1to 15) | | 23819 | | |
| 16 | Interest on working Capital (4.5%) | | 1071.86 | 2.30 | |
| 17 | Variable cost (VC) | | 24890.86 | | |
| 18 | Management charges (10% VC) | | 2489.09 | 5.35 | |
| 19 | Risk factor (5% VC) | | 1244.54 | 2.68 | |
| 20 | Transportation | | 2500 | 5.37 | |
| 21 | Market Charges (loading & unloading) | | 1400 | 3.01 | |
| 22 | Packing Charges | | 2000 | 4.30 | |
| 23 | | | 12000 | 25.79 | |
| 24 | Total Cost | | 46524.48 | 100 | |
| 25 | Production (qtl. per acre) | 100 | | | |
| 26 | Cost of production | | 465.24 | | |
| 27 | Recommended base price per qtl. for the year 2019- 20 | | 450 | | |

Cost of cultivation and returns of Turmeric 2019-20

| S.N. | Item | Qty | Per acre cost (Rs.) | (%) |
|------|--|-----|---------------------|-------|
| 1 | Preparatory tillage | 8 | 4000 | 3.55 |
| 2 | Pre-sowing Irrigation | | 300 | 0.27 |
| 3 | Sowing | | 3000 | 2.66 |
| 4 | Ridging | | 800 | 0.71 |
| 5 | Seed (Kg) | 700 | 17500 | 15.51 |
| 6 | Seed Treatment | | 300 | 0.27 |
| 7 | FYM(qtl) | 100 | 3000 | 2.66 |
| 8 | Fertilizer nutrients | | | |
| | (a)Urea | 68 | 360 | 0.32 |
| | (b)DAP | 50 | 1250 | 1.11 |
| | (c)MOP | 33 | 627 | 0.56 |
| | (d)Zinc Sulphate | 0 | 0 | 0.00 |
| | Total Ferti.Invest | | | |
| 9 | Fertilizer Application | | 150 | 0.13 |
| 10 | Irrigation | | 4500 | 3.99 |
| 11 | Hoeing /Weeding | | | |
| | (a) Chemical | | 0 | 0.00 |
| | (b) manual | | 5000 | 4.43 |
| 12 | Plant Protection | | 1100 | 0.98 |
| 13 | Harvesting | | 12000 | 10.64 |
| 14 | Sorting | | 3000 | 2.66 |
| 15 | Miscellaneous | | 200 | 0.18 |
| | Total(1to 15) | | 57087 | |
| 16 | Interest on working Capital (9 %) | | 5137.83 | 4.55 |
| 17 | Variable cost | | 62224.83 | |
| 18 | Management charges (10%) | | 6222.48 | 5.52 |
| 19 | Risk factor (5%) | | 3111.24 | 2.76 |
| 20 | Transportation | | 2500 | 2.22 |
| 21 | Market Charges | | 650 | 0.58 |
| 22 | Packing Charges | | 2100 | 1.86 |
| 23 | Rental value of land (1 year) | | 36000 | 31.91 |
| 24 | Total Cost | | 112808.55 | 100 |
| 25 | Production (qtl.) | 80 | † | |
| 26 | Cost of production | | 1410.11 | |
| 27 | Recommended base price per qtl. for the year 2019-20 | | 1400 | |

Cost of cultivation and returns of Garlic 2019-20

| .N. | Committee recommended cost of production 2019-20 (Rs. per acre) Item Qty Per acre cost (Rs.) (%) | | | | | |
|-----|---|-----|---------------------|-------|--|--|
| | Tem | Qiy | Ter acre cost (Rs.) | (/0) | | |
| 1 | Preparatory tillage | 6 | 3000 | 2.61 | | |
| 2 | Pre-sowing Irrigation | | 300 | 0.26 | | |
| 3 | Sowing | | 5000 | 4.35 | | |
| 4 | Ridging | | 200 | 0.17 | | |
| 5 | Seed (Kg) | 200 | 28000 | 24.35 | | |
| 6 | Seed Treatment | | 300 | 0.26 | | |
| 7 | FYM(qtl) | 200 | 6000 | 5.22 | | |
| 8 | Fertilizer nutrients | | | | | |
| | (a)Urea | 50 | 265 | 0.23 | | |
| | (b)DAP | 50 | 1250 | 1.09 | | |
| | (c)MOP | 16 | 304 | 0.26 | | |
| | (d)Zinc Sulphate | 0 | 0 | 0.00 | | |
| | Total Ferti.Invest | | | | | |
| 9 | Fertilizer Application | | 150 | 0.13 | | |
| 10 | Irrigation | | 4500 | 3.91 | | |
| 11 | Hoeing /Weeding | | | | | |
| | (a) Chemical | | 700 | 0.61 | | |
| | (b) manual | | 5000 | 4.35 | | |
| 12 | Plant Protection | | 2000 | 1.74 | | |
| 13 | Harvesting | | 10000 | 8.70 | | |
| 14 | Sorting | | 3000 | 2.61 | | |
| 15 | Miscellaneous | | 200 | 0.17 | | |
| | Total(1to 15) | | 70169 | | | |
| 16 | Interest on working Capital (6.75%) | | 4736.41 | 4.12 | | |
| 17 | Variable cost | | 74905.41 | | | |
| 18 | Management charges (10%) | | 7490.54 | 6.51 | | |
| 19 | Risk factor (5%) | | 3745.27 | 3.26 | | |
| 20 | Transportation | | 2100 | 1.83 | | |
| 21 | Market Charges | | 650 | 0.57 | | |
| 22 | Packing Charges | | 2100 | 1.83 | | |
| 23 | Rental value of land (8 months) | | 24000 | 20.87 | | |
| 24 | Total Cost | | 114991.22 | 100 | | |
| 25 | Production (qtl.) | 50 | | | | |
| 26 | Cost of production | | 2299.82 | | | |
| 27 | Recommended base price per qtl. for the year 2019-20 | | 2300 | | | |

Operational Cost & Returns from Mango 2016-17

(Rs. per acre)

| | | | | (Rs. per acre |
|-----|--|------|--------------|---------------|
| Sr. | Cost of Production/ Recommended by Committee | Qty. | Cost Rs. per | % |
| No. | | | acre | |
| 1 | Inter-culture Operations & Hoeing | | 2584 | 3.05 |
| 2 | FYM (qtl) | | 2160 | 2.55 |
| 3 | Fertilizer | | | |
| | (a) Urea | 36 | 191 | 0.23 |
| | (b) SSP | 72 | 504 | 0.59 |
| | (c) Zn So4/MOP | 72 | 1368 | 1.61 |
| | (d) Any other | 0 | 0 | 0.00 |
| 4 | Irrigation & maintenance of Drip system | | 4034 | 4.75 |
| 5 | Pruning & Cutting | | 4184 | 4.93 |
| 6 | Insecticide & Fungicides | | 4188 | 4.94 |
| 7 | Watch & Ward | | 2289 | 2.70 |
| 8 | Plucking | | 3144 | 3.71 |
| 9 | Packing including packing material | | 7333 | 8.64 |
| 10 | Miscellaneous | | 567 | 0.67 |
| 11 | Total (1 to 10) | | 32546 | 38.36 |
| 12 | Interest on working Capital (9%) | | 2929 | 3.45 |
| 13 | Variable cost (VC) | | 35475 | 41.81 |
| 14 | Interest on fixed capital (9% of estb cost) | | 11577 | 13.65 |
| 15 | Management charges (10% VC) | | 3671 | 4.33 |
| 16 | Risk factor (5% VC) | | 1835.5 | 2.16 |
| 17 | Market cost (Loading/unloading) | | 5417 | 6.39 |
| 18 | Transportation charges | | 3748 | 4.42 |
| 19 | Rental value of land (1 year) | | 23115 | 27.25 |
| 20 | Total Cost | | 84839 | 100.00 |
| 21 | Production (qtl.) | 50 | | |
| 22 | Cost of production/qtl | | 1697 | |
| | Cost of production 2019-20 | | | |
| 23 | 2016-17 (base year) | | 1697 | |
| 24 | 2017-18 (increase 5 %) | | 1782 | |
| 25 | 2018-19 (increase 5 %) | | 1871 | |
| 26 | 2019-20 (increase 5 %) | | 1964 | |
| 27 | Recommended base Price per qtl. for the year 2019-20 | | 1950 | |

Operational Cost & Returns from Guava 2016-17

| | | | | (Rs. per acre |
|----|--|------|---------|---------------|
| Sn | Recommended by Committee | Qty. | Val. | % |
| 1 | Inter-culture Operations & Hoeing | | 3093 | 3.94 |
| 2 | FYM (qtl) | | 1823 | 2.32 |
| 3 | Fertilizer | | | |
| | (a) Urea | | 645 | 0.82 |
| | (b) SSP | | 763 | 0.97 |
| | (c) Zn So4/MOP | | 546 | 0.70 |
| | (d) Any other | | 244 | 0.31 |
| 4 | Irrigation & maintenance of Drip system | | 3283 | 4.18 |
| 5 | Pruning & Cutting | | 3605 | 4.59 |
| 6 | Insecticide & Fungicides | | 4591 | 5.85 |
| 7 | Watch & Ward | | 2084 | 2.65 |
| 8 | Plucking | | 5494 | 7.00 |
| 9 | Packing including packing material | | 3791 | 4.83 |
| 10 | Miscellaneous | | 498 | 0.63 |
| 11 | Total (1 to 10) | | 30458 | 38.81 |
| 12 | Interest on working Capital | 9% | 2741 | 3.49 |
| 13 | Variable cost (VC) | | 33199 | 42.30 |
| 14 | Interest on fixed capital (9% of estb cost) | | 4442 | 5.66 |
| 15 | Management charges (10% VC) | 10% | 3320 | 4.23 |
| 16 | Risk factor (5% VC) | 5% | 1660 | 4.23 |
| 17 | Market cost (Loading/unloading) | | 4663 | 5.94 |
| 18 | Transportation charges | | 5305 | 6.76 |
| 19 | Rental value of land (1 year) | | 24237 | 30.88 |
| 20 | Total Cost (including rental value) | | 76826 | |
| 21 | Total Cost (excluding rental value) | | 52589 | |
| 22 | Production (qtl.) | | 70 | |
| 27 | Cost of production/qtl (including rental value | | 1097.51 | |
| 28 | Cost of production/qtl (excluding rental value | | 751 | |
| | Cost of production 2019-20 including rental value | | | |
| 29 | 2016-17 (base year) | | 1097.51 | |
| 30 | 2017-18 (increase 5 %) | | 1152.38 | |
| 31 | 2018-19 (increase 5 %) | | 1210 | |
| 32 | 2019-20 (increase 5 %) | | 1270.5 | |
| 33 | Recommended base Price per qtl. for the year 2019-20 | | 1300 | |

Operational Cost & Returns from Kinnow Orchard

(Rs. per acre)

| Sn | Particulars | Qty. | Val. | % |
|----|--|------|----------|--------|
| 1 | Inter-culture Operations & Hoeing | | 4164 | 4.40 |
| 2 | FYM (qtl) | | 1947 | 2.06 |
| 3 | Fertilizer | | | |
| | (c) Urea | | 762 | 0.81 |
| | (d) SSP | | 1348 | 1.42 |
| | (c) Zn So4/MOP | | 1282 | 1.35 |
| | (d) Any other | | | |
| 4 | Irrigation & maintenance of Drip system | | 2445 | 2.58 |
| 5 | Pruning & Cutting | | 3488 | 3.68 |
| 6 | Insecticide & Fungicides | | 6507 | 6.87 |
| 7 | Watch & Ward | | 1500 | 1.58 |
| 8 | Plucking | | 8754 | 9.25 |
| 9 | Packing including packing material | | 7449 | 7.87 |
| 10 | Miscellaneous | | 1093 | 1.15 |
| 11 | Total (1 to 10) | | 40739 | 43.03 |
| 12 | Interest on working Capital | | 3667 | 3.87 |
| 13 | Variable cost (VC) | | 44406 | 46.91 |
| 14 | Interest on fixed capital | | 5292 | 5.59 |
| 15 | Management charges | 10% | 4441 | 4.69 |
| 16 | Risk factor | 5% | 4441 | 4.69 |
| 17 | Market cost (loading/unloading) | | 5577 | 5.89 |
| 18 | Transportation charges | | 6601 | 6.97 |
| 19 | Rental value of land (1 year) | | 23915 | 25.26 |
| 20 | Total Cost (including rental value) | | 94671 | 100.00 |
| 21 | Total Cost (excluding rental value) | | 70756 | 100.00 |
| 22 | Production (qtl.) | | 104 | |
| 27 | Cost of production/qtl (including rental value | | 908 | |
| 28 | Cost of production/qtl (excluding rental value | | 680 | |
| 29 | 2016-17 (base year) | | 910 | |
| 30 | 2017-18 (increase 5 %) | | 955.50 | |
| 31 | 2018-19 (increase 5 %) | | 1003.275 | |
| 32 | 2019-20 (increase 5 %) | | 1053.43 | |
| 33 | Recommended base Price per qtl. for the year 2019-20 | | 1100 | |

Operational Cost & Returns from Ber 2021-22

(Rs. per acre)

| Sr. No. | Cost of Production/ Recommended by Committee | Qty. | Cost Rs. per acre | % |
|------------|--|------|----------------------|--------|
| 1 | Inter-culture Operations & Hoeing | | 5000 | 4.45 |
| 2 | FYM (qtl) | 36 | 1260 | 1.12 |
| 3 | Fertilizer | | | |
| | (a) Urea | 90 | 480 | 0.43 |
| | (b) SSP | 180 | 1368 | 1.22 |
| | (c) MOP | 0 | 0 | 0.00 |
| | (d) Zink | 0 | 0 | 0.00 |
| 4 | Irrigation & maintenance of Drip system | | 3374 | 3.01 |
| 5 | Pruning & Cutting | | 8000 | 7.13 |
| 6 | Insecticide & Fungicides | | 5000 | 4.45 |
| 7 | Watch & Ward | | 5000 | 4.45 |
| 8 | Plucking | | 10000 | 8.91 |
| 9 | Grading, Packing including packing material | | 5000 | 4.45 |
| 10 | Miscellaneous | | 1200 | 1.07 |
| 11 | Total (1 to 10) | | 45682 | 40.70 |
| 12 | Interest on working Capital (9%) | | 4111 | 3.66 |
| 13 | Variable cost (VC) | | 49793 | 44.36 |
| 14 | Interest on fixed capital (9% of estb cost) | | 8760 | 7.80 |
| 15 | Management charges (10% VC) | | 4980 | 4.44 |
| 16 | Risk factor (5% VC) | | 2490 | 2.22 |
| 17 | Market cost (Loading/unloading) | | 5210 | 4.64 |
| 18 | Transportation charges | | 5003 | 4.46 |
| 19 | Rental value of land (1 year) | | 36000 | 32.08 |
| 20 | Total Cost | | 112236 | 100.00 |
| 21 | Production (qtl.) | 77 | | |
| 22 | Cost of production/qtl | | 1458 | |
| 23 | Recommended base price per qtl. for the year 2021-22 | | 1458 | |

Operational Cost & Returns from Litchi 2021-22

(Rs. per acre)

| Sr. No. | Cost of Production/ Recommended by Committee | Qty. | Cost Rs. per acre | % |
|------------|---|------|----------------------|--------|
| 1 | Inter-culture Operations & Hoeing | | 5000 | 5.18 |
| 2 | FYM (qtl) | 45 | 1575 | 1.63 |
| 3 | Fertilizer | | 0 | |
| | (a) Urea | 126 | 672 | 0.70 |
| | (b) SSP | 162 | 1231 | 1.27 |
| | (c) MOP | 43 | 821 | 0.85 |
| | (d) Zinc | 0 | 0 | 0.00 |
| 4 | Irrigation & maintenance of Drip system | | 5000 | 5.18 |
| 5 | Pruning & Cutting | | 2000 | 2.07 |
| 6 | Insecticide & Fungicides | | 5000 | 5.18 |
| 7 | Watch & Ward | | 5000 | 5.18 |
| 8 | Plucking | | 10000 | 10.35 |
| 9 | Grading, Packing including packing material | | 5000 | 5.18 |
| 10 | Miscellaneous | | 1200 | 1.24 |
| 11 | Total (1 to 10) | | 42499 | 44.00 |
| 12 | Interest on working Capital (9%) | | 3825 | 3.96 |
| 13 | Variable cost (VC) | | 46324 | 47.96 |
| 14 | Interest on fixed capital (9% of estb cost) | | 3825 | 3.96 |
| 15 | Management charges (10% VC) | | 4632 | 4.80 |
| 16 | Risk factor (5% VC) | | 2316 | 2.40 |
| 17 | Market cost (Loading/unloading) | | 1000 | 1.04 |
| 18 | Transportation charges | | 2500 | 2.59 |
| 19 | Rental value of land (1 year) | | 36000 | 37.27 |
| 20 | Total Cost | | 96597 | 100.00 |
| 21 | Production (qtl.) | 40 | | |
| 22 | Cost of production/qtl | | 2415 | |
| 23 | Recommended base price per qt. for the year 2021-22 | | 2415 | |

Say Rs. 24/-Per kg.