



Goan Agriculturists' Guide

**AGRICULTURE OFFICERS'
ASSOCIATION, GOA**



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Goan Agriculturists' Guide



AGRICULTURE OFFICERS' ASSOCIATION, GOA





आरसीएफ ची दर्जेदार खाते

हरितकांतीसाठी



जशी माती
तसं खात



राष्ट्रीय केमिकल्स अॅण्ड फर्टिलायझर्स लि.

(भारत सरकारचा उपक्रम)

आरसीएफ किसान केआर (टोल फ्री क्रमांक) : १८०० २२ ३०४४

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AGRICULTURE OFFICERS ASSOCIATION, GOA

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BRIEF PROFILE

Agriculture Officers Association, Goa was established in the year 1978 with the main objective to "Foster a feeling of brotherhood amongst the members as well as to work for the betterment of their social, cultural and economic standards and act as a liaison with government, cultivators and other recognised bodies".

The regular members of the Association are officers of the Directorate of Agriculture, Goa of and above the rank of Assistant Agriculture Officer possessing a basic degree in Agriculture or Horticulture. There are 73 in – service members while 48 Associate are those members who have retired/resigned for better prospects.

The affairs of the Association are managed by the Executive Committee, which is elected by the General Body. The tenure of the Executive Committee is for two years. The annual report and the audited accounts are presented at the Annual General Body meeting held annually.

The basic activities undertaken by the Association are annual publication of Agri diary, technical booklet, Agriculture Officers Annual day, Annual Workshop on technical issues, Felicitation of retired/25 years completed members, Awards for SSCE & HSSCE toppers amongst children of members and staff of Directorate of Agriculture and taking up service issues with appropriate authorities.

The Association till date has published 32 technical booklets on various issues pertaining to Agriculture in the State which are well received.

This year is declared as "AOA YEAR 2016 – 17 for SWAPARIVARTAN" i.e. SELF CHANGE. Under this initiative old books of Association will be given to around 140 schools in the State to motivate them towards agriculture, organising Lecture series for members, Voluntary Blood donation camp, First aid course, Health Marathon, Pleasure of giving – charity activity, contribution towards Armed Forces Flag day, Trekking in monsoon, Voluntary Eye/Organ donation awareness amongst members, participating in Agri related exhibitions and shows etc, in addition to all the above regular activities.

EXECUTIVE COMMITTEE MEMBERS – 2016 – 18

President : Nelson Figueiredo

Vice President : Rena Menezes

Secretary : Pramod Joshi

Joint Secretary : Vishwanath Gawas

Treasurer : Sonia Mote

PREFACE

It is said that farming subsidies in Goa are the highest in the country. The introduction of Krishi Cards from 2013 has further simplified the process of claiming subsidies. The e-Krishi project has reached an advanced stage and subsidies for Assured Price for Crops, Agricultural Mechanisation, Shetkari Adhar Nidhi to name a few are being processed online. Inspite of all the above, it is still common to hear farmers complain that they are unaware of schemes and that 75% or 90% subsidy expected is much below their expectation.

This book is an attempt to make the concept of standard costs for various agricultural machineries, fruit crop planting, irrigation, etc. readily available to opinion leaders among farmers as well as to Officers of the Directorate of Agriculture. A list of registered dealers for fencing, machinery and irrigation infrastructure is included so that farmers can make the best possible and cost effective choice. Officers and farmers can easily refer to the notifications of various schemes in the Official Gazette of the Government of Goa to get first hand information about them.

The Agriculture Officers Association (AOA), Goa started bringing out a locally relevant booklet on Agriculture each year from 1985. This has been possible due to continuous support from our Advertisers. We thank them for their help in making it possible to make this book available to farmers and Officers free of cost. We also thank the Director of Agriculture and our colleagues in the Directorate of Agriculture for their help and support.

This is the 33rd annual Agriculture Officers Association (AOA) publication. It is hoped that officers and farmers will find this useful.



Pramod R. Joshi
(SECRETARY)



Nelson X. Figueiredo
(PRESIDENT)

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KRISHI CARD LAND CODE ELIGIBILITY FOR VARIOUS SCHEMES

Sr. No.	Land Code	Schemes
1.	All codes eligibility	<ul style="list-style-type: none"> 1. Schemes dealing with assistance for <u>inputs</u> <ul style="list-style-type: none"> a) 50% subsidy for paddy, pulses, groundnuts and vegetable seeds. b) Use of soil conditioners, micronutrients, subsidy for Integrated Pest Management (IPM), seed treatment. c) Assistance for purchase of inputs by SC/ST farmers. d) Revival of Khazan lands through provision of salt tolerant paddy seed. e) Seed production clusters. 2. Agricultural Mechanization such as Custom service; Purchase of agricultural tools, implements and equipment of less than ₹10,000/- cost each including bullock drawn implements; Popularize agricultural machinery through Self Help Groups (SHG's)/ NGO's/ Farmers' Clubs/ Farmers' Societies etc. 3. Shetkari Aadhar Nidhi (SAN). 4. Assured Price for Paddy up to 3000 kg and Cashew below 1000 kg. 5. Promoting Improved Technologies in Foodgrain crops i.e. Minikits, SRI, etc. 6. Purchase of vermibeds and 7. Pollination through bee keeping
2.	All codes eligible except 5A to 5G. 5 A and 5B eligible if NOC for 10 years is obtained.	<ul style="list-style-type: none"> 1. All schemes for creation of agricultural infrastructure such as: <ul style="list-style-type: none"> a) Setting up of biogas, organic manure units, vermin composting units. 2. Area expansion/cultivation of all fruits, flower and spice crops including hybrid coconuts.
		<ul style="list-style-type: none"> 3. Productivity improvement in Cashew/Coconut. 4. Irrigation infrastructure such as well, pumpsets, water conveying pipeline, farm ponds, Micro irrigation, i.e. Drip and Sprinkler irrigation systems. 5. Soil conservation works i.e. Assistance for retaining walls, one time assistance for removal of shrubs/ weed etc. 6. Agricultural Mechanization (Power operated) i.e. purchase of higher HP Tractors, Mini tractors, Power Tillers, Reapers/ Threshers, transplanters, weed cutters, machinery for value addition etc. 7. Protected Cultivation and Coconut Development Board (CDB) schemes.
3.	All codes eligible except 5C, 5E and 5F. 5G eligible only for Sugarcane support price.	<ul style="list-style-type: none"> 1. Assured Price for: <ul style="list-style-type: none"> b) Coconut, Sugarcane, Alsando, Oilpalm and Areca nut. c) Paddy above 3000 kg and Cashew above 1000 kg. 2. Sugarcane seed farmer.
4.	All codes eligible except 5A to 5G.	<ul style="list-style-type: none"> 1. Assistance for soil and water conservation activities: <ul style="list-style-type: none"> a) Jalkunds, Revitalization of water bodies. b) Land development/ leveling using earthmoving machinery. c) Western Ghats Development Programme components i.e. land development, bank stabilization, diversion of drains, constructing crescent shaped structures, dugouts and farm ponds. 2. Agricultural tools, implements and equipment costing above ₹10,000/-. 3. All types of fencing.

SOME TIPS FOR TROUBLE FREE KRSHI CARDS

- | | |
|-------|--|
| i. | Only one Krishi Card is to be issued per family. Family means husband, wife and unmarried children up to the age of 21 years. |
| ii. | Applicant farmers should apply for Krishi Card in the Zone wherein his major land holding is situated. The Zonal Agricultural Officer of that Zone shall seek approval internally for land parcels situated in the jurisdiction of other Zones. |
| iii. | To avoid duplicity of land holding, clearly get established how the applicant has right to the holding in question. A joint self-declaration by all heirs, including surviving spouse wherever applicable , clearly showing shares of each person or waiving share in favour of another heir can go a long way to avoid confusion. |
| iv. | Be extra careful when one heir claims entire property as his share. Find out number of existing heirs. All children including daughters have legal right to inheritance. |
| v. | As per law, surviving spouse has 50% share in property of deceased spouse. The balance 50% is divided between the children. |
| vi. | Ensure that intercrops are also mentioned along with main crop. |
| vii. | Show area covered as per plant population. |
| viii. | Fallow land should be clearly shown. Will help in cases of new area coverage under crops. |

NOTIFICATION DETAILS OF SOME DEPARTMENTAL SCHEMES

Sr. No.	Scheme	Notification No.	Date	Govt. Gazette Date	No.	Fin (Exp.) Date
a	Assistance for Seed Promoting Improved Technologies in Foodgrain crops	3/H/Agron/PPG/3-2(1)/2013-14/D.Agriv/3/H/Agron/PPG/3-2(4)/2013-14/D.Agriv/	28-Feb-2013 23-Jul-2013	16-Aug-2013 20	14779481	18-Jun-2013
c	Assistance for Fencing					
d	Programme for establishment of sugarcane seed farm	3/4/Agron/SUG/3-7/2012-13/D.Agriv/421	21-Mar-2013	28-Mar-2013	147012	20-Feb-2013
e	Scheme for Crop Protection in Agriculture	3/1/BP/PP/15/2013-14/D.Agriv/327	16-Jul-2013	25-Jul-2013	1475154	21-Jun-2013
f	Assured Price for Agricultural Produce, 2016	3/3/Hort/SSS/2/2016-17/D.Agriv/129	26-Jul-2016	11-Aug-2016	1400025413	5-Jul-2016
g	Development of Horticulture, 2016	3/3/Hort/SSS/1/2016-17/D.Agriv/126	26-Jul-2016	11-Aug-2016	1400025699	11-Jul-2016
h	Assistance for Digging and Construction of Irrigation Well	3/3/Hort/StateWell/2/2015-16/D.Agriv/74	7-Jan-2016	14-Jan-2016	1483317	19-Sep-2013
i	Assistance for Protected Cultivation for Growing Flowers and Vegetables	3/3/Hort/State/2/Prot.Cult/2013-14/D.Agriv/217	12-Jul-2013	25-Jul-2013	1459790	6-Aug-2012
j	Assistance for Cultivation of Vegetables by Self Help Groups (SHG's) / Individuals	3/3/Hort/State/2/2015-16/D.Agriv/251	12-Aug-2015	27-Aug-2015	1941/F	13-Jul-2015
k	Promotion of Vegetables with Assured Markets - 2015	3/3/Hort/SSS-GSHCL/2/2016-17/D.Agriv/37	17-May-2016	8	26-May-2016	1400017668 17-Feb-2016
l	Centrally Sponsored Scheme on Micro Irrigation under Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)				1400029101	7-Oct-2016
m	Productivity Improvement in Cashew	3/3/Hort/2/2013-14/D.Agriv/144	14	4-Jul-2013	1476966	3-Jun-2013
n	Shetkari Adhar Nidhi, 2015	3/5/EXT/25-Part/2010-11/D.Agriv/45	30-Apr-2015	6	7-May-2015	1400008811 23-Feb-2015
o	Amendment to Shetkari Adhar Nidhi	3/5/EXT/25/2016-17/D.Agriv/257	18-Jul-2016	17	28-Jul-2016	1400025358 6-Jun-2016
p	Development of Jalkund, 2016	3/CIN/NAM/Govt/Jalkund/4/2016-17/D.Agriv/224	30-Jun-2016	14	8-Jul-2016	1400025391 6-Jun-2016
q	Desilting and Revitalization of tanks and Ponds, 2016	3/CIN/NAM/Govt/Desilt. Ponds&Tanks/6/2016-17/D.Agriv/255	6-Jul-2016	15	14-Jul-2016	1400025392 6-Jun-2016
r	Assistance for Land Levelling, 2016	3/CIN/NAM/Govt/Land.Lev/10/2016-17/D.Agriv/251	5-Jul-2016	15	14-Jul-2016	1400025390 6-Jun-2016
s	Assistance for the use of Organic Inputs by the Farmer	3/CIN/INM/Org.Govt/4/2016-17/D.Agriv/144	27-May-2016	11	16-Jun-2016	1400024293 6-May-2016
t	Development of Manures and Fertilizers	3/CIN/INM/M&F.Govt/3/2016-17/D.Agriv/240	1-Jul-2016		1400025388	6-Jun-2016
u	Promotion of Mechanization in Agriculture	3/1/WS/SMech/13-14/D.Agriv/223	8-Jul-2013	16	18-Jul-2013	1476825 29-May-2013
v	Subsidy for Custom Services in Agriculture	3/1/WS/SMech/13-14/D.Agriv/224	8-Jul-2013	16	18-Jul-2013	1476825 29-May-2013
w	Amendment	3/1/WS/SMech/2016-17/D.Agriv/81	13-Jul-2016	16	21-Jul-2016	1638/F 23-Jun-2016
x	Development of Kitchen Gardens	3/3/Hort/State Sector Scheme/9/2016-17/D.Agriv/177	12-Sep-2016	25	22-Sep-2016	1400028263 30-Aug-2016

STANDARD RECOMMENDATION FOR MICRONUTRIENT APPLICATION

Sr. No.	Perennial Fruit/ Plantation Crop	Micronutrient					
		Zinc Sulphate Heptahydrate (21%)		Borax (10.5%)		Magnesium Sulphate	
		Soil applicatio n	Foliar	Soil application	Folia r	Soil application	Foliar
1)	Horticultural Crops						
(a)	Cashew, Coconut, Guava, ,Mango, Chickoo, Cinnamon,Jackfruit, Nutmeg.	200 gm/plant	5 % w/v	150 gm/plant	0.8 % w/v	500 gms/plant	---
(b)	Arecanut	100 gm/plant	5 % w/v	75 gms/plant	0.8 % w/v	---	---
(c)	Banana, Black pepper	50 gm/plant	5 % w/v	100 gm/plant	0.8 % w/v	---	---
(d)	Pineapple	10 gm/plant	5 % w/v	20 gm/plant	0.8 % w/v	---	---
(e)	Papaya	25 gm/plant	5% w/v	50 gm/plant	0.8 % w/v	---	---
(f)	Oilpalm	200 gm/plant	5 % w/v	100 gm/plant	0.8 % w/v	500 gm/plant	---
2)	Field Crops						
(a)	Paddy, Groundnut, Cowpea, Ragi, Corn, Gram	25 kg/ Ha.	5 % w/v	20 kg/ Ha.	1 % w/v	---	---
3)	Vegetables						
(a)	Brinjal, Okra, Chillies, Tomato, Onion	50 kg./ Ha.	5 % w/v	20 kg/ Ha.	1 % w/v	---	---
(b)	Cucumber, Bitter gourd, Ridge gourd, Knol-khol, Waal, Radish, Watermelon, Ginger, Turmeric,	25 kg/ Ha.	5 % w/v	20 kg/ Ha.	1 % w/v	---	---
	Elephant Foot Yam, Tapioca						

SUBSIDY DISBURSAL PATTERN FOR HORTICULTURAL CROPS

Sr. No.	Scheme Component	Area limits	Standard Cost State ₹/ha.	Standard Cost Central ₹/ha.	Max State Subsidy @ 75% ₹/ha.	Max Central Subsidy ₹/ha.	Subsidy Instalments ₹/ha.					
							1st Central	1st State	2nd Central	2nd State	3rd Central	
1	2		3	4	5	6	7	8	9	10	11	12
1	Cost Intensive Crops i.e. Banana, Pineapple, Papaya											
a	Banana Suckers	90000	87500	67500	35000 (40%)	26250	32500	8750	-	-	-	
b	Banana Tissue Culture	90,000 minimum 0.1 ha and Maximum of 4.0 ha	125000	67500	50000 (40%)	37500	17500	12500	-	-	-	
c	Pineapple Suckers	90000	87500	67500	35000 (40%)	26250	32500	8750	-	-	-	
d	Pineapple Tissue Culture	90000	125000	67500	50000 (40%)	37500	17500	12500	-	-	-	
e	Papaya	90000	60000	67500	30000 (50%)	22500	37500	7500	-	-	-	
2	Fruits Crops other than Banana, Pineapple and Papaya											
a	Fruits excluding Banana, Pineapple, Papaya & Cashew	Minimum 0.1 ha and maximum 4.0 ha (Central) No upper limit for State	40000	60000	30000	30000 (50%)	18000	-	6000	-	6000	
b	Cashew Area Expansion	40000	50000	30000	20000 (40%)	12000	10000	4000	-	-	4000	
c	Rejuvenation/ Replacement of Senile Plantations/ Canopy Management	0.1 ha to max of 2.0 ha	-	40000	-	20000 (50%)	20000	-	-	-	-	
d	High Density Planting (Mango, Guava, Citrus etc.)	Min 0.1 ha to Max 4.0 ha	-	100000	-	40000 (40%)	24000	-	8000	-	8000	
e	Ultra High Density (Meadow Orchard)	-	125000	-	50000 (40%)	30000	-	10000	-	-	10000	
3	Area Expansion in Flowers											
a	Bulbous Flowers		100000	150000	75000	37500 (25%) Gen	37500	37500	-	-	-	
b	Cut Flowers	Min 0.05 ha Max 2.0 ha (Central) and 4.0 ha (State)	60000	100000	45000	60000 (40%) for SF/MF	60000	15000	-	-	-	
c	Loose Flowers		60000	40000	45000	25000 (25%) Gen	25000	20000	-	-	-	
4	Area Expansion in Spices					40000 (40%) for SF/MF	4000	5000	-	-	-	
a	Seed/Rhizomatic spices i.e. Ginger, Turmeric etc.		40000	30000	30000	10000 (40%)	12000	18000	-	-	-	
b	Perennial species (Black pepper, Nutmeg, Clove, Cinnamon)	Min 0.1 ha Max 4.0 ha	40000	30000	30000	20000 (40%)	20000	10000	-	-	-	
5	Area Expansion in Coconut (CDB + State)											
a	Tall varieties	Min 0.1 ha Max 2.0 ha (State) 4.0 (CDB)	40000	26000	30000	6500 (25%)	3250	11750	3250	11750	-	
b	Hybrid varieties		40000	27000	30000	6750 (25%)	3375	11625	3375	11625	-	
c	Dwarf varieties		40000	30000	30000	7500 (25%)	3750	11250	3750	11250	-	

**THIS STANDARD COST WILL BE APPLICABLE FOR ALL TYPES OF FENCING
WHICH ARE ERECTED/ MATERIAL PURCHASED AFTER 01-10-2016.**

A. Traditional type of Fencing:

Sr. No.	Particulars	Unit	Standard Cost Proposed to fix (₹)
1.	Barbed wire fencing with RCC/ metal pole	Per RM of wire	25
2.	Barbed wire fencing with wooden/ live pole	Per RM of wire	22
3.	G. I. wire fencing with RCC/ metal pole	Per RM of wire	17
4.	RCC Pole 6' x 4" x 4" H x L x B with at least 3 rods of 6 mm held together by stirrups embedded in 1:4 cement concrete mixture (register dealer)	Per pole	400
5.	RCC Pole 8' x 4" x 4" H x L x B with at least 3 rods of 6 mm held together by stirrups embedded in 1:4 cement concrete mixture (register dealer)	Per pole	600
6.	RCC Pole 6' x 4" x 4" H x L x B (self raised/ unregistered dealer)	Per pole	200
7.	RCC Pole 8' x 4" x 4" H x L x B (self raised/ unregistered dealer)	Per pole	300
8.	Hot dip galvanized iron pole of 37.5 x 37.5 mm and minimum 3 mm thickness and 1.5 mt heights or duly galvanized or powder coated	Per pole	350
9.	Stone wall fencing	Per RM of fence	570
10.	Wire mesh fencing (G.I./ synthetic)	Per RM of fence	230

B. Solar power Fencing:

No. of lines	Fixed cost up to 1000 RM	Fixed cost above 1000 RM of fence	Variable cost per RM of fence (₹)
3	30000	30000	135
4	30000	30000	155
5	30000	45000*	175
6	30000	45000*	225
7	30000	45000*	245

* fixed cost of fencing above 1000 RM length installed with two units or with higher capacity of battery, Solar panel/ Module, Energizers etc.

ITEMS/ MATERIAL TO BE CONSIDERED FOR SOLAR POWER FENCING

	<i>Fixed Cost</i>		<i>Variable Cost</i>
1	Energizers	1	12 G Wire
2	Battery 12V	2	14 G Wire
3	Solar Panel/ Module	3	PP Reel insulator
4	Solar Panel Stand including pipe	4	Corner insulator
5	Solar Charger controller	5	Wire tightener
6	Earthing Kit	6	Warning sign
7	DI cable	7	Corner poles 6'/8'
8	Joint clamp	8	Intermediate pole 6'/8'
9	Tool kit/ Tightner handle	9	Installation and transport
10	Neon Tester	10	Any other item

Note: All the items/ material other than mentioned under fixed cost may be considered under Variable cost

SOME TIPS ON SOLAR POWER FENCES

- I. A solar power fence is a psychological barrier and not a physical barrier like a barbed wire, wire mesh or stone wall fence.
- ii. If no animals from a group have experienced a shock from a power fence, they are likely to break through such a fence once. Only after experiencing a shock they will not approach such a fence again.
- iii. The High Tensile Hot Dip Galvanised (HTHDG) (12G) wires used in solar power fences are so strong that the poles to which they are tied break but not these wires when a big animal tries to run into the fence.
- iv. Due to above reasons, use of 'T' or 'L' angle galvanized metal poles is recommended. These can be straightened again if bent. On the other hand, R.C.C. poles in such cases have to be replaced by new ones.
- v. A 'section' is a part of a solar power fence which is usually straight or having a slight bend. The length of a 'section' does not normally exceed 100 meters. Insulators such as CP insulators or 'bull nose' porcelain insulators are used at ends of a 'section'. A wire tightener is used on each wire of a section. Wire tighteners need not be used if length of a section is very short, say up to 20-25 meters.
- vi. Generally pipe poles are used at end of each section as they are the ones who bear the major load of a solar power fence Section.
- vii. The intermediate poles are normally spaced at a distance of 6 metres in case of metal poles and 5metres in case of RCC poles.

- viii. It is better if metal poles have holes in them to facilitate tying of wires so that they do not slip down a pole.
- ix. A fence has neutral and phase wires. In case of smaller animals like pigs etc. neutral wire is the lowest one on the fence and usually located about 6 inches above the ground. The phase wire is placed above this at a height of about 8 to 10 inches from the first wire. In case of bison, the neutral wire is the fourth from bottom in case of a 5 line fence.
- x. Weeds or green branches touching the wires lead to leakage of current and may damage equipment.
- xi. Rates of fencing agencies vary. Guiding farmers to evaluate various agencies based on labour/ installation and transport costs as well as track record of after sales service and speed of execution.

List of Registered Solar Power Fencing Agencies

Sr. No.	Name of the Dealer	Address	Name of the Manufacturer	Phone No.
1	Kamat & Associates	Vamanya Namah, Plot No. 23/B, Tarcar Colony, Tonca, Caranzalem - Goa.	Ibex Gallagher Pvt. Ltd., Bengaluru.	9822132365/ 2224417, Fax: 2425056
2	Sunpower Sales & Services	C/o Prashant V. Rane, H. No. 372, Mathwada, Keri, Sattari - Goa.	Sunpower Electronics, Yellapur.	9422845036
3	Anantbrahma Developers	H. No. 39, Brahma Karmali, Sattari - Goa.	Shakti Solar Fencing Equipement, Yellapur.	9423055405/ 2374605
4	Shivsom Solar	H. No. 17, Ambedem, P. O. Nagargao, Sattari - Goa.	SELCO Solar Light Pvt. Ltd., Bengaluru.	237432/ 8390701450
5	Bhavani Enterprises	Mallem, Sancordem, Dharbandora - Goa.	Super Solar Fencing Systems	9405920535
6	Alsof Solar Enterprises	H. No. 174, Nr. St. Mary's Convent, Igramol, Quepem - Goa.	Crown Solar Fencing Systems	9881240068
7	Raj Agrotech	16, Honda Bus Stand Complex, Honda, Sattari - Goa.	Crown Solar Fencing Systems	
8	Goa Krishi Kendra	Shop No. 3, Rangaraj Bldg, Sheller, Canacona - Goa.	Hi-Tech Solar Fence, Mapusa.	9422057978/ 2643445/ 2644445
9	Sujata Agrocare	Shop No. 3, Dattaprasad Appts., Mestawado, Curti, Ponda - Goa.	Ibex Gallagher Pvt. Ltd., Bengaluru.	9422062100
10	Gomantak Agro Implements & Services	2640, Housing Board Colony, Sankhali, Bicholim - Goa.	Crown Power Fencing Systems	8007715979/ 8698689661

“Indicative Costs for Drip and Sprinkler Irrigation Systems fixed by Government of India.”

I) Drip Irrigation system

<u>Area</u>					<u>Cost in ₹</u>
<i>Lateral Spacing (M)</i>	<i>1 ha</i>	<i>2 ha</i>	<i>3 ha</i>	<i>4 ha</i>	<i>5 ha</i>
A. Wide Spaced crops					
8m & above	23500	38100	59000	74100	94200
4m to <8m	33900	58100	89300	113200	142400
2m to<4m	58400	108000	161800	220600	271500
B. Closed Spaced crops					
1.2m to <2m	85400	161300	243400	332800	412800
<1.2m	100000	193500	292100	399400	495400

II) Sprinkler Irrigation System.

- a) Micro Sprinkler - ₹58,900/- per ha
- b) Mini Sprinkler - ₹85,200/- per ha
- c) Portable Sprinkler - ₹19,600/- per ha
- d) Semi Permanent System - ₹36,600/- per ha
- e) Large Volume Sprinkler - ₹31,600/- per ha

The above indicative cost shall be taken into consideration/ or is applicable for calculating admissible subsidy under Centrally Sponsored Scheme Per Drop More Crop – Pradhan Mantri Krishi Sinchayee Yojana (PMKSY).

However, for calculating subsidy under State Sector Scheme - Development of Horticulture additional weightage of 75% over and above Government of India indicative cost given above may be considered for Micro Irrigation cases of 2016-17.

SOME TIPS ON MICRO IRRIGATION

1. The Government of India scheme previously known as “National Mission on Micro Irrigation (NMMI)” and then “On Farm Water Management (OFWM)” is replaced by the “Centrally Sponsored Scheme on Micro Irrigation under the Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)” from 2015-16.
2. There is no provision for a 15% increase in standard costs for States like Goa.
3. Use of disc or screen filters is a must for Drip Irrigation Systems (DIS) and very desirable for sprinkler irrigation systems too.
4. Sand filters are to be used when the water source is a river, open tank or well where fine suspended impurities may be present.
5. In case of a plantation with one or more intercrops, restrict assistance to one crop (usually closest spaced crop) considering that crop occupies the entire area and ignore the other intercrops.
6. Verify if a farmer is a Small or Marginal Farmer (SF or MF) from his Krishi Card abstract. A farmer with upto 1.0 ha total area is considered as MF and with upto 2.0 ha total area as SF.
7. Advise farmers to cross check rates of various Micro Irrigation agencies for material as well as installation and transport before taking a final decision. Also advise them the likely subsidy they will get so that farmers have some idea about investment from their own pocket.

ANNEXURE 'IV'
Indicative Price of Optional Components

Sr.No	Optional Component		IS No.	Approx. Price (in ₹)
1	<i>Sand Filter with Back Wash Assembly</i>			
	a	10 m ³ / hr x 1.5"	14606	18000
	b	20 m ³ / hr x 2"	14606	20000
	c	25 m ³ / hr x 2"	14606	22000
	d	30 m ³ / hr x 2.5"	14606	25000
	e	40 m ³ / hr x 2.5"	14606	28000
	f	50 m ³ / hr x 3"	14606	35000
2	<i>Hydrocyclone Filter</i>			
	a	20 m ³ / hr x 2"	14743	6500
	b	25 m ³ / hr x 2"	14743	7000
	c	30 m ³ / hr x 2.5"	14743	7500
	d	40 m ³ / hr x 2.5"	14743	9000
	e	50 m ³ / hr x 3"	14743	10000
3	<i>Fertilizer Tank with Assembly</i>			
	a	30 liters	Not available	7000
	b	60 liters	Not available	9500
	c	90m liters	Not available	10500

**LIST OF MANUFACTURERS/ SUPPLIERS OF DRIP INSTALLATION SYSTEM/EQUIPMENTS &
THEIR AUTHORISED DEALERS IN GOA**

1	<p>M/s JAIN Irrigation System Ltd, E-29, Near T.R.P.MIDC Mirjole, Ratnagiri Maharashtra 415612, Phone: 02352-230033, Tele Fax No.(02352)2294621, E-Mail: jainirrigation@jains.com, Website: www.jains.com.</p> <p><u>Authorised dealers in Goa</u></p>
a	M/s Sharda Agro Services, Bhayli Peth, Bicholim Goa Mob: 9423800094/ 9226855100.
b	M/s S. P. Enterprises , Main Road, Valpoi Goa, Mob: 9423055405, Ph: 0832-2374605.
c	M/s Nihar Agro Tech, Main Road, Ponda Goa, Mob: 9822120967, Ph: 0832-2315139.
d	M/s Gadgil Agro, Gokulwadi, Sankhali Goa 9823400926/9423883749.
e	Shri Dattaprasad Electricals, H.No. 38, Ward No 8, Antil Peth, Bicholim, Goa. Phone No: 0832-2380135, 9421248728
f	Green Agro System, H.No. 66, VoiloVaddo Sangem.8007045786
g	Tendolkar Agro, HNo.225/13, Amai Virnoda Pernem 9421261368
h	The Green Triangle, Jacknie, Parra, Bardez, Goa, 403 510, Phone No: 0832-2278005, 9822583340.
2	<p>M/s Finolex Plasson Industries, Regional Office - Plot No.399, Urse, Taluka - Maval, District - Pune.</p> <p><u>Authorised dealers in Goa</u></p>
a	M/s. Kartik Enterprises Above Goa Urban Co-Op.Bank Ltd., Near Ponda Municipal Council, Ponda-Goa, Ph.No.314716.
b	Shancha Jaladhara, Dabal, Dharbandora, P.O. Kirlapal Via, Curtorim.
3	<p>Chaitra Irrigation, No.30, 1st Floor, 5th Main Road, Gandhinagar, Bangalore-56000932, Tel : 080 - 22372612, FAX - 080 - 22372613.</p> <p><u>Authorised dealers in Goa</u></p>
a	M/s Rawalnath Enterprises, Parshuram R Karekar, C/o. Yashwant S Bandodkar, Behind Milan Hotel, H.No.31/2, Duler, Mapusa Goa
4	<p>EPC Industries Ltd., Hubli 136/211, Pinto Rd. Nr. Central Telegraph Office. Telefax (0836) 2352375.</p> <p><u>Authorised dealers in Goa</u></p>
a	M/s Simish Enterprises, Pedda, Margao Goa.
b	S. B. S. Marketing Enterprises, Ponda

5	<p>Netafim Irrigation India Pvt Ltd., Regd Office: 268-270, Manjusar, Swavl, Dist: Vadodara-391775, Gujarat, Tel: 91-9725014978/79/80, Fax 02667264600, www.netafim.co.in</p> <p><u>Authorised dealers in Goa</u></p>
a	M/s Aqua Engineers, Shed No.D3/8, Plot No.18, GIDC Tivim Industrial Estate, Mapusa Goa 403 507
b	M/s Bhavani Enterprises, H.No. 124, Village Aglote, Sacordem, Sanguem - Goa. 403 406.
c.	M/s Vivek Agricultural & Electrical Services, Near Bajaj Services Market, Bicholim, Phone No: 0832-2981143, 9422635933.
d.	Raj Agrotech, Honda Sattari Goa 7722048503/01
6	<p>Sujay Irrigation Pvt. Ltd, No. 86, Main Road, Petechannapa Industrial Estate, Kamakshipalya, Bangalore - 560079, Phone No. 23488779, 23283686. Fax No. 080-23480878.</p> <p><u>Authorised dealers in Goa</u></p>
a	M/s Goa Agro Horticulture Center Suckdow Bldg, Post No. 160, Near Cine Lata, Margoa - Goa.
7	<p>Kisan Mouldings Ltd, South Regional Office 13/14, 2nd floor, M' Block, Unity Bldg, J.C. Road, Bangalore 560002. Phone No.. 080-43009292. Fax No. 080-22272238.</p> <p><u>Authorised dealers in Goa</u></p>
a.	Balve & Company, Tisk, Usgao - Goa 403 406.
b.	M/s S D Enterprises, Ponda Goa.
c.	M/s Kakode Trading LLP, Margao, Goa.
d.	M/s. Gopresh Traders, Shop no. 5 & 6, Anandi Apt, Chaudi, Canacona – Goa.
e.	M/s. Goa Krishi Kendra, Shop.No. 3, Rangaraj Building, Sheller, Canacona-Goa. 9422057978/2644445
f.	Krishi Bandar, Karmali Building, Curchorem Goa 403706 Tel. No. 9421255695/2650146
8	<p>Rishi Polymach Pvt. Ltd. 5/3, 1st floor, Arekempanahalli, 13th Cross, Wilson Garden, Bangalore - 560027. Phone No. 41206569/41207219. Fax No. 26573167.</p> <p><u>Authorised dealers in Goa</u></p>
a	M/s Goa Bagyatdar Sahakari Kharedi Vikri Saunsta Marayadit, Ponda.
9	<p>Premier Irrigation Adritec Pvt. Ltd, 271, Mysore Road, Bangalore 560 026, Phone No. 080 26742278/5844/5034, Fax 080 26746446.</p>
a.	M/s Janaki Drip, No.27/4, Hedode, valpoi, Sattari, Goa.
b.	D. S. Agri Enterprizes, Kopardem , Sattari, Goa Ph. 2326041 / 7875151129

10	Krishi Irrigation Pvt. Ltd, C-184, PEenya 2nd Stage, Bangalore- 560058
a.	M/S. Vivek Agricultural & Electrical Services, C/o. Abhinav Doodh Society, Bicholim Goa. 2981143 / 9422635933
b.	M/s Pranav Traders, Sh.18, Sadashiv Plaza, Panditwada, Ponda Goa. 2314181/9421249206
11	Swati Storewell Pvt. Ltd., Flat no. C-1, 1st floor, Shambhavi Appts, 6-1-106/107,Padmarao nagar, Secundarabad-500 025
12	Rungta Irrigation Ltd. 74/2A,Srigandhanagar, Hegganhalli, peenya, iind stage, vishwaneedham Post, Bangalore-560 091
13	Duraline India Pvt. Ltd. A/10, Sanskrit bhavan, Qutab Institutional area, New Delhi-110 067
14	Kaveri Pipes, 12/6,No.41, Nayanahalli, Mysore road, Bangalore-560 039

**STANDARD PRICE OF AGRICULTURAL
MACHINARIES FOR THE YEAR 2016-17**

Sr.No	Type of Agricultural Machinery	Capacity	Standard Price (Rs.)
A	List of Machinery / Equipments		
1	Tractor	30HP to 50 HP	Rs.14000/- per HP
2	Mini Tractor	15HP to Below 30 HP	Rs.14000/- per HP
3	Power Tiller - Indigeneous	A)9 HP to below 12 HP (600 CC &above)	Rs.14000/- per HP
		B)12 HP and above (600 CC &above)	Rs.12000/- per HP
4	Power Tiller – Non Indigeneous	9 HP &above (600 CC &above)	Rs.10000/- per HP
5	Mini Tiller	Above 4 HP to 9 HP (BELOW 600 CC)	Rs.11000/- per HP
6	Weed cutter	1.5 HP to 2.1 HP	Rs.14000/- per HP
		2.2 HP to 2.5 HP	Rs.15,000/- per HP
7	Baby Weeder	Above 2.5 HP to 4 HP	Rs.14000/- per HP
8	Manually Operated Sprayer	5 ltrs to 20 ltrs	Rs.2300/-
9	Gatoor Sprayer	NIL	Rs.4600/-
10	Electric sprayer/Battery sprayer	NIL	Rs.5000/-
11	Telescopic lance	More than 5 meter length	Rs.2800/-
12	Power sprayer	Upto 1.5 HP	Rs.10000/-
13	Power sprayer (motorised/power tiller/tractor mounted)	Above 1.5 HP	Rs.30000/-
14	Coconut climber	NIL	Rs.2500/-
15	Coconut Climber with seating arrangement	NIL	Rs.9000/-
16	Arecanut Climber	NIL	Rs.2500/-
17	Arecanut Climber with spraying device	NIL	Rs.7000/-
18	Arecanut peeling/dehusking machine	Fitted with motor upto 2 HP	Rs.50000/-
19	Arecanut peeling/dehusking machine	Fitted with More than 2 HP	Rs.55000/-
20	Arecanut polishing machine	NIL	Rs.40000/-
21	Arecanut Harvestor	NIL	Rs. 4500/-
22	Cashew apple juice extractor	Fitted with 1 HP motor	Rs.40000/-
23	Cashew apple juice extractor	Fitted with 1.5 HP motor	Rs.45000/-
24	Cashew apple juice extractor	Fitted with 2 HP motor	Rs.50000/-
25	Trio apple crusher with heavy duty gear box	NIL	Rs.95,000/-
26	Basket Press for cashew apple	NIL	Rs.25000/-
27	Cocum cutting machine	Fitted with 1 HP motor	Rs.35000/-
28	Agro crop drier (Bio -fuel)	Upto 100 Kgs	Rs.75000/-
29	Agro crop drier (Bio -fuel)	Above 100 Kgs	Rs.1,00,000/-
30	Solar drier / Solar tunnel drier	Above 100 kgs	Rs.1,00,000/-
31	Electric tray drier	30 to 100 kgs	Rs.75,000/-
32	Paddy Thresher – Manual (Pedal operated with silpaulin/tarpaulin)	NIL	Rs.15,000/-
33	Paddy thresher – Motorised	NIL	Rs.35000/-
34	Paddy thresher – Power tiller operated	NIL	Rs.75000/-
35	Paddy thresher – Tractor Operated	NIL	Rs.90000/-

36	Self propelled earth auger	1.5 HP to 3 HP	Rs.40,000/-
37	Telescopic Tree pruner – Manually operated	NIL	Rs.18000/-
38	Telescopic Tree pruner – Power operated	NIL	Rs.75000/-
39	Coconut dehusking machine	NIL	Rs.1,50,000/-
40	Paddy reaper /harvester (power driven)	NIL	Rs.1,00,000/-
41	Rice transplanter – Walk behind type	NIL	Rs.2,20,000/-
42	Rice transplanter – Riding type	NIL	Rs.10,00,000/-
43	Pulper	Fitted with 1 HP motor	Rs.40000/-
44	Pulper	Fitted with 1.5 HP motor	Rs.45000/-
45	Pulper	Fitted with 2 HP motor	Rs.50000/-
46	Chaff cutter / Shredder – Manually operated	NIL	Rs.10000/-
47	Chaff cutter / Shredder – Power operated	3HP to 4 HP	Rs.25000/-
48	Chaff cutter / Shredder – Motorised	5 HP &above	Rs.50000/-
49	Chaff cutter / Shredder – Tractor operated	NIL	Rs.1,60,000/-
50	Paddy seeder – Manually operated	NIL	Rs.4800/-
51	Paddy seeder – Automatic	NIL	Rs.2,50,000/-
52	Monkey Repeller	NIL	Rs.12500/-
53	Aluminium harvesting Ladder(Single Pole)	20 feet	Rs.4000/-
		30 feet	Rs.6200/-
		35 feet	Rs.7500/-
		40 feet	Rs.8500/-
54	Aluminium harvesting Ladder(Bi-Pole)	10 feet	Rs.3500/-
		20 feet	Rs.6500/-
		30 feet	Rs.10000/-
		40 feet	Rs.12000/-
55	Cono weeder – Manually operated	NIL	Rs.1500/-
56	Cono weeder – Power operated	NIL	Rs.30000/-
57	Water pump - (Tractor/Power tiller/Mini tiller operated with attachment)	NIL	Rs.11000/-
58	Paddy comine harvestor (Track type)	75 HP to 90 HP	Rs.23,50,000/-
59	Black Pepper Seperator	NIL	Rs. 35000/-
60	Pulveriser	NIL	Rs. 35000/-

B List of Implements / Attachements

1	Implements for Tractor (Suitable for 30 Hp to 50 HP Tractor)		
(a)	Three furrow MB plough		Rs.50000/-
(b)	Three furrow Disc plough		Rs.50000/-
(c)	Offset disc harrow		Rs.50000/-
(d)	Cultivator		Rs.30000/-
(e)	Ridger		Rs.30000/-
(f)	Levelling blade		Rs.25000/-
(g)	Post hole digger with auger		Rs.70000/-
(h)	Rotovator		Rs. 90000/-
(h)	Single furrow reversible plough		Rs.50000/-
(i)	Double furrow reversible plough		Rs.55000/-
(j)	Two furrow disc plough		Rs.42469/-
2	Implements for Mini Tractor		
(a)	Mould Board plough		Rs.38000/-
(b)	Disc plough		Rs.38000/-
(c)	Disc harrow		Rs.38000/-

	(d) Rotovator	NIL	Rs.38000/-
	(e) Ridger		Rs.15000/-
	(f) Reversible plough		Rs.30000/-
3	Implements for Power Tiller		
	(a) Ridger	NIL	Rs. 3700/-
	(b) Mouble Board plough		Rs. 3700/-
	(c) Water Pump attachment		Rs. 3800/-
	(d) two bottom disc plough		Rs.8822/-
4	Cage Wheels/Lugged Wheels	Tractor mounted	Rs. 30000/-
5	Cage Wheels/Lugged Wheels	Mini Tractor mounted	Rs. 10000/-
6	Cage Wheels/Lugged Wheels	Power tiller mounted	Rs. 7000/-
7	Cage Wheels/Lugged Wheels	Mini tiller mounted	Rs. 6800/-
8	Trailer-Tractor mounted (Mechanical)	3 tonnes &above	Rs. 85000/-
9	Trailer-Tractor mounted (Hydraulic)	3 tonnes &above	Rs. 1,10,000/-
10	Trailer-Mini Tractor mounted (Mechanical)	1.5 tonnes &above	Rs. 45000/-
11	Trailer-Mini Tractor mounted (Mechanical)	3 tonnes &above	Rs. 80000/-
12	Trailer-Power tiller mounted	NIL	Rs. 40000/-
13	Sugarcane Planter-Tractor operated	NIL	Rs. 2,75,000/-
14	Weed Cutter harvesting attachment	NIL	Rs. 3500/-
15	Seed cum fertilizer drill	Tractor mounted	Rs. 50000/-
16	Seed cum fertilizer drill	Mini tractor mounted	Rs. 40000/-
17	Seed cum fertilizer drill	Power tiller mounted	Rs. 25000/-

NOTE:-

1. The subsidy shall be calculated exclusively based on the cost price of machinery (excluding Vat).
2. The standard price of machinery/ equipments that are not listed but are useful for field conditions of Goa subsidy shall be considered & specifically examined on case to case basis by the technical committee at the time of administrative approval. The standard cost of such items shall be taken as 2.5% less than the actual billed price (excluding VAT) for calculation of subsidy.
3. The tractors above 50HP will not be generally considered for subsidy. However, in specific cases if considered, the subsidy shall be limited to those applicable for 50 HP tractor.
4. The Power Tiller above 18HP will not be generally considered for subsidy.
5. Kerosene run machines will not be considered for subsidy.
6. Maximum permissible standard cost for Mini Tillers will be limited to Rs.75,000/- irrespective of higher HP.
7. Quotation / Invoice of the machinery/equipment/attachment proposed for the purchase shall invariably contain capacity (HP /CC /Lts /Mts /Kgs) of the machinery/ equipment & incase of power tiller the source of manufacturer i.e. name of manufacturing country is to be mentioned.

Sr.No	Dealer Name	Machineries/ Equipment's/ Attachments	Validity
1	Goa Tractors Tillers & Agencies, Mapusa Goa Ph. No. 0832-2257070	SHER KRF 900 – 9 HP Mini Tiller (Diesel)	16-09-2017
		SHER KRF 900 – 9 HP Mini Tiller (Diesel) Electronic Start	
		SHER KRF 600 – 6 HP Mini Tiller (Diesel)	
		SHER KRF 600 – 6 HP Mini Tiller (Diesel) Electronic Start	
		SHER JRF 650 – 6.5 HP Mini Tiller (Petrol)	
		SHER JRF 650 – 6 HP (Petrol) with Honda GX200 Petrol Engine	
		Weed Cutter, Mini Teller, Earth Auger, Backpack Sprayer, Oleomac and Agrimate	
		Power tiller, Mini Tractor, Rice transplanter, Reaper, V.S.T Tillers Tractors Ltd	
		All subsidized & registered agricultural machineries, Kass Agro Products	
		All subsidized & registered agricultural machineries, Fortune Agro Impex	
2	Ms. Gomaya Traders H.No.301, Ziltawada Canacona-Goa 403702 Contact No.9823564198	All subsidized & registered agricultural machineries, Sharp Garuda Farm Equipments Pvt Ltd	10-09-2017
		Brush Cutters, Power Tiller, Backpack Sprayers, Honda Siel Power Products	
		Tractors, Tractors and Farm Equipments Ltd (TAFE)	
		Hobby 380 TG 4 Stroke Power weeder (2.6 HP)	
		Hobby 500 TG 4 S Power weeder (3 HP)	
		Lilli 532 TG 4 S Power weeder (4 HP)	
		TX 601 TG 4 S Power weeder (5HP)	
		Alligator 6 DP 4 S Diesel Power Weeder (6HP)	
		Alligator 6 DP 4 S Diesel Power Weeder with self starter (6 HP)	
		Protac 750 D 4 S ddiesel power weeder (5HP)	
3	SP Enterprises near Government High School, Valpoi, Satteri- Goa Ph. No: -	RT 450D 4 S diesel power weeder (5HP)	31-03-2017
		Brush Cutter CG 430 B-2 stroke (1.7 HP)	
		Combi Brush Cutter GJ 330 Multi tool brush cutter 2 S (1.7 HP)	
		Extra Attachments. 1. Pole Pruner 2. 2. Trimmer 3. 3. Weeder	
		Angad 6.0 DH Power weeder (6HP)	
		Angad 6.0 DH DLX Power weeder (6HP)	
		Angad 8.0 DH Power weeder (8HP)	
		Angad 8.0 DH DLX Power weeder (8HP)	
		Angad 8.0 DH DLX ES Power weeder (8HP)	
		Cashew juice extractor, SS body 2 HP electric motor	
4	Mr. Farmer (India) Pvt. Ltd. Guirim, Bardez-Goa	Cashew juice extractor, SS body 2 HP petrol engine	31-03-2017
		Sprayers- knapsack sprayers	
		All sprayers	
		Weed cutter (1.5 hp & above)	
5	Laxmi Engineering Works,	1. Brush cutter XT 143 (2HP)	28-03-2018
		2. Brush cutter XT 145 (2HP)	
		3. Mini Tiller YM 400S (4hp) (diesel)	
		4. Mini Tiller RT65 (4.8hp) (petrol)	
		Cashew fruit juice extraction machine Bucket Press	
6	M/s Vivek Agricultural & Electrical Services, Bicholim-Goa	Power tiller (FE 500 & FJ 500)	03-03-2018 29-09-2017
		Brush cutter (UMK 435 TU2ST, UMK 435T) UEDT, UMK 435T U2NT & UMK 435T UENT	
		Backpack sprayers	
		Vertical model chaff cutter with motor, 2 HP Motor single phase	
		Power Operated table type chaff cutter with motor, 3 HP Motor single phase	
		Power operated Heavy Duty chaff cutter with motor, 3 HP Motor single phase	

7	Ridj Engineers , Flat No. 20, Kamar Arcade, St.Inez Panaji-Goa	1) Brush Cutter 2) Auger 3) Intercultivator	03-01-2018
8	M/s Naik Auto Industries Korporation, Fatorda, Margao-Goa	1. Class Crop Tiger Paddy Harvestor 2. Class Transplanter	29-11-2017
9	M/s Sujata Agrocare Curti, Ponda-Goa	1) Weed cutter 1.5 HP 2) Weed cutter 2 HP Weed cutter - 2.4 HP , Kisan Kraft Power sprayer - 1 HP , Kisan Kraft Weed cutter - 1.6 HP , Honda power Power Tiller - 15 HP, 996 CC, Kirloskar oil engines Ltd	01-12-2018 30-03-2017
10	M/s Nisha N.P. Veluenkar, Ponda-Goa	Solar tuner drier, 200 kg Solar tuner drier, 300 kg Solar tuner drier, 800 kg Multipurpose aluminium harvesting pole with sprayer, 18 feet Multipurpose aluminium harvesting pole with sprayer, 30 feet Multipurpose aluminium harvesting pole with sprayer, 42 feet Multipurpose aluminium harvesting pole with kathi, 24 feet Multipurpose aluminium harvesting pole with kathi, 30 feet Multipurpose aluminium harvesting pole with kathi, 36 feet Multipurpose aluminium harvesting pole with kathi, 42 feet Ultrasonic Repeller for monkey/pest etc Electric tray drier (30 to 100 kg)	31-10-2016 03-12-2017
11	M/s Godrej Agrovet Limited, Valpoi-Goa	Harvesting pole 20 feet	01-05-2018
12	Goa Krishi Kendra, Shellar Canacona-Goa	1. Weed Cutter 2.4 HP 1. Weed Cutter 1.9 HP 3. Inter cultivator 5.7 HP 4. Inter cultivator 2 HP 5 Pole hole digger 2 HP 5 Pole hole digger 3.2 HP 5 Pole hole digger 6.5 HP Post hole digger auger, auger bit 12",10",6",8",14",4" 1) Coconut tree climber 2) Betel nut tree climber 3) Cashew apple juice extracting machine 4) Cashew apple basket pressing unit 5) Betel nut dehusking machine Inter Cultivator/Rotary Weeder attachment 1) IC - 300D/400D sprayers 2) IC - 300D/400D single plough 3) IC - 300D/400D Ridger 4) IC - 300D/400D potato ditcher 5) Tractor Trolley 6) Ridger 7) Reaper 8) Potato Harvester 9) Plough 10) 11)Iron wheel pair	14-10-2016
13	M/s Balve Company, Tisk Usgao Goa	1) Power Weeder tata 2 HP 2) Power Weeder tata 3 HP 3) Power Weeder tata 3.8 HP 4) Mini tiller Tata 4.7 HP 5) Mini tiller Tata 4 HP	15-05-2017

14	M/s Balve & Company, Tisk Usgao-Goa	1. Aspee brush cutter 2. Aspee earth auger 3. Aspee weeder 4. Aspee rotary tiller 5. Aspee sprayers 6. Aspee paddy weeder 7. Palm tree climber	15-05-2017
15	M/s Gadgil Agro, Sakhali Goa	1) Power Tiller, Sprayer, Weed cuters, Mini tillers of Kisan Kraft Make 2) Rotary tiller, weed cutter of Honda Power Products	30-11-2017
16	SBS Marketing Enterprise, 1 & 2,sheikh building., Ponda-Goa	Tractor (15hp to 60hp), Mahindra & Mahindra Ltd Power tiller, Brush cutter, Pumpset, Greaves Ltd Cono weeder, Manual transplanter, Magnificent Engineers Plough, Cultivator, Rotovator, Popular Agricultural Implement Post hole digger, Trith Agro Technology Pvt Ltd Ladder, Bull Machine Pvt Ltd	31-03-2016
17	Datson Industries D-35, Margoa, Industrial Estate, Margoa-Goa	1) Arecanut Peeler 1 HP -25 kg/hr 2) Arecanut Peeler 2 HP -60 kg/hr 3) Cashew Apple Crusher 1HP -750 kg/hr 4) Cashew Apple Crusher 2HP -1250 kg/hr	25-09-2017
18	M/s Kartik Enterprises Ponda- Goa	1) Honda brush cutter Model UMK 435TU2ST Model UMK 435T UEDT 2) Wegwan power sprayers 3) Manual knapsack sprayers 4) Battery operated power sprayers	31-03-2017
19	M/s Omkar Krishi Yantra Udyog Valpoi	1) Arecanut dehusking machine 1 HP 2) Areanut dehusking machine 2 HP 3) Cashew apple crushing 2 HP 4) Cashew apple crushing 1 HP 5) Pressing unit of 0.5 cubic meter 6) Paddy thresher 1 HP motorised.	13-07-2017

20	Goa Bagayatdar Sahakari Kharedi Vikri Saunstha Maryadit Ponda Goa	1) Arecanut peeling machine 2 HP motor 2) Power sprayers wegwan 1 HP 3) Knapsack sprayer 16 ltr (Tulip) 4) Hand sprayers 01 ltr 5) Hand sprayers 02 ltr 6) Hand sprayers 03 ltr 7) Hand sprayers 05 ltr 8) Hand sprayers 08 ltr 9) Hand sprayers 10 ltr 10)Battery operated sprayers 11)Neptune battery sprayer 12)Balwan knapsack sprayer 13) Sudarshan weedcutter 35 14)Spray lances – 3 mtr 15)Spray lances – 5 mtr 16)Coconut climber 17)Arcanut climber 18)Aluminum ladder 20 Ft 30 Ft 35 Ft 40 Ft 19)Dolphin Alluminium ladder 20 Ft 30 Ft 36 Ft 40 Ft 20)Aluminum B1 pole ladder 10 Ft 30 Ft 20 Ft 40 Ft 21)Weed cutter 1.6 HP 22)Aspee brush cutter (2stroke) & (4 stroke) 2.2 HP 2.5 HP 23) Aspee pole pruner 1HP 24) Aspee rotary tiller 205cc 6.5 HP 25) Aspee power weeder 2.5HP 2 stroke 26) Aspee power sprayers 3HP 27) Aspee ASM 779 High pressure knacksack sprayers (1HP) 28) Vidyut battery operated sprayers (VBD09) 29) Aspee gator rocking sprayers 30)Aspee Knacksack 16ltr sprayers	07-08-2017
21	M/s Durga Mechanical Work Ponda- Goa	1)Arcanut peeling machine 2HP 2) Cashew juice crushing machine 1.5 HP 3) Cashew juice cutter	20-07-2017
21	M/s Kamat Engineers & Traders, Fartorda- Goa	1) Kriloskar mega Tpower tiller, 15 BHP, 996 CC, diesel engine	23-06-2017
22	Jai Kisan Enterprises, House no. 812/16(1) Mahakhazan near RTO Checkpost, Dhargal Pernem Goa	1) Power weeder 4.2 HP, 211 CC 2) Power weeder 6 HP, 306 CC 3) Power weeder 9 HP, 418 CC 4) Power weeder 6.5 HP, 300 CC 5. Navnath Power Weeder/Tiller, Foggers India Pvt Ltd 6. Wegwan Portable Power Sprayer, Foggers India Pvt Ltd 7. Sudarshan Honda Grass Cutters, Foggers India Pvt Ltd 8. Triton 15 Ltrs operated sprayer Foggers India Pvt Ltd 9. Tulip Superteck 15 Ltrs Manual Sprayer 10. Coconut Tree Climber Machine, MAHAMUNI Agro 11.Bicycle Coco Weeder, Mahamuni Agro	19-03-2017

23	M/s. Nihar Agro Tech, G-8 Angarakhi Building, Opp Fire Station, Ponda Goa	1. Brush Cutter 2. Pruner 3. Mist blower (sprayer)	06-10-2017
24	M/S Atharva Agrovat Agencies, Market Yard, Ponda Goa	1. Power driven equipment/implements 2. Bullock drawn equipment 3. Brush Cutter 4. Mini Tiller 5. Power Reaper 6. Chaff Cutter 7. Paddy Threshers 8. Power Tiller (Kubota) 9. Sprayers manually operated 10. Power operated sprayer	31-03-2017
		Coconut climber/Arecanut peel	26-12-2016
25	Goa Agro Horticulture Centre, Margao-Goa	Sprayers(Aspee brand) Sprayers(Aditya band) Brush Cutter Pruner (KASB)	11-01-2016
26	Mallika Agro Tools Shristhal, Canacona	Brush Cutter Paddy Reaper Power Tiller Cashew Processing Machinery	06-11-2016
27	Rolex Engineering and Trading Company, Menezes House, Mangor Hill, Vasco-da-Gama	Brush Cutter Mini Harvestor Mini Thraster Garden Tiller Automative Rice nursery Sowing Machine Rice Transplanter Combine Harvestor Power Tiller	06-11-2016
28	Tushar Metal Industries, Valpoi	Cashew Apple Crushing Machine Arecanut Peeling Machine	06-11-2016
29	DK Power Tiller Agencies, Morailem, Curchorem-Goa	Shrachi SF 15 DI (15 HP) Shrachi all rounder (12 HP) Shrachi sarpanch (12HP) Shrachi 135 power tiller (9 HP) Shrachi 105 micro tiller (5.5 HP) Shrachi reaper (2.5 HP)	29-07-2018

Registered Dealers Name - Machinery

Sr. No.	Dealer Name
1	Goa Tractors Tillers & Agencies, SC, Thivim Industrial Estate, Karaswada, Mapusa Goa - 403 526 Ph. No. 0832-2257070, sales@goatractors.in
2	Ms. Gomaya Traders H. No. 301, Ziltawada, Canacona - Goa 403702 Contact No. : 9823564198
3	SP Enterprises near Government High School, Valpoi, Sattari-Goa-403506 Ph. No.: 9423055405
4	Mr. Farmer (India) Pvt. Ltd. Guirim, Bardez - Goa - 403507
5	Laxmi Engineering Works, Valpoi, Sattari - Goa - 403507
6	M/s Vivek Agricultural & Electrical Services, Bicholim - Goa - 403504
7	Ridj Engineers, Flat No. 30, Kamar Arcade, St. Inez, Panjim - Goa-403001
8	M/s Naik Auto Industries Korporation, N.D. Naik Bldng, V.N. Naik Road, Fatorda, Margao - Goa - 403602 M.No. - 9850398519 sales@ndnaik.com
9	M/s Sujata Agrocare, Curti, Ponda Goa - 403401
10	M/s Nisha N.P. Velguenkar, H.No. 340, Penyamal, Nirankal, Ponda Goa - 403402 M No.: 9850704787 purvafarm@gmail.com
11	M/s Godrej Agrovet Limited, Valpoi Goa - 403506
12	Goa Krishi Kendra, Shop No. 3, Rangaraj Bldng, Shellar Canacona Goa - 403702
13	M/s. Balve Company, Tisk Usgao Goa - 403406 Mobile No. : 9860454212 Balveautomobiles@rediffmail.com
14	M/S Gadgil Agro, 5B-2, Om Sai Apartment, Near Ravindra Bhavan, Sakhali Goa-403505, M: 9823400926, gadgilagro@gmail.com
15	SBS Marketing Enterprises, Shop No 1 and 2, Sheikh Building, Near Canara Bank, Ponda-Goa 403601. M: 9822121855, sbsgroups@refiffmail.com
16	Datson Industries, D-35, Margao Industrial Estate, Margao-Goa, 403601, M: 9422437826, datson77@gmail.com
17	M/s Katik Enterprises, Navelkar Building, 1st Floor, Near Ponda Municipal Council, Ponda-Goa, 403401, 083202314716, kartikgoa@gmail.com
18	M/s Omkar Krishi Yantra Udyog. Valpoi-403506
19	Goa Bagayatdar Sahakari Kharedi Virkri Saunstha Maryadit.Ponda-Goa
20	M/S Durga Mechanical Works Ponda-Goa
21	M/s Kamat Engineers and Traders. Fatorda-goa
22	Jai Kisan Enterprises, House No 812/16(1) Mahakhazan Near RTO Check Post, Dhargal Pernem Goa 403513 M: 9823797446 sargarkarapurkar77@gmail.com
23	M/S Nikar Agro Tech, G-8 Anagarakhi Buildig, Opp Fire Station, Ponda-Goa, 403401, 0832-2315139, nihar1024@yahoo.com
24	M/s Atahrva Agrovat Agencies, Shop No 7, APMC, Market Yard, Bethora Road, Ponda-Goa, 403401, M: 9422395334
25	Goa Agro Horticulture Centre Margao-Goa
26	Mallika Agro Tools, 282/21, Shristhal, Canacona-Goa 403702
27	Rolex Engineering and Trading Company, Menezes House, Mangor Hills, Vasco-da Gama-403802
28	Tushar Metal Industries, Mauxi Road, Valpoi Goa 403506, 0832-2374284

29	D.K Power Tiller Agencies, Morailem, Curchorem Goa, 403706
30	Varsha Enterprises, Ground Floor S1, B Block, Madkaiker Plaza, Near Corlim Mollar Old Goa, 403402, Corlim Tiswadi Goa, 9226237770
31	Balve and Company, Tisk Usagao, Dharbandora Goa 9860454212
32	Kamat Engineers and Traders, Fatorda, Margao Goa 403602 9823296002
33	Dessai and Company, Lotlikar Buildign PB No 111, Near Railway Flyover, Margao-Goa 403601 M: 0832-2732205
34	Rosmaiana Outdoor Equipements, 690/3, Primavaxa, Benaulim, Salcete Goa-403716 M: 9923481231

Unit Size
 Crop Areca nut
 Variety local
 Spacing (mt² * mt) 2.75x2.75
 Plant population per acre 1000 per ha
 Avg. Labour cost per manday 400
 Cultivation in irrigated mode

(Amount in `)									
Sl. No.	Economics of Cultivation	UNIT COST		3		4		5	
a. Material Cost									
i. Plant material(110% of requirement) 30 x 1000 x 110%	33000	0	0	0	0	0	0	0	0
ii. Manures and Fertilizers									
ii. a FYM	12000	6000	12000	24000	24000	24000	24000	24000	24000
ii. b NPK	4500	10000	10140	10240	27820	45130	45130	45130	45130
iii. Plant protection chemicals									
iv. Others (Shake/Pandal)	2400	1000	1000	1000	1000	1800	1800	1800	1800
iv. Sub-Total (Materials)	51900	17000	17140	23240	52820	70130	70930	70930	70930
b. LABOUR COST									
i. Site clearance and layout making	35								
ii. Pit digging	50								
iii. Planting	30								
iv. Manuring	9	25	25	25	25	25	25	25	25
v. Weeding	6	20	20	20	20	20	20	20	20
vi. Plant Protection	0				4	6	6	8	8
vii. Gap filling/staking/shade regulation etc.	5								
viii. Irrigation	0	35	35	35	35	35	35	35	35
ix. Harvesting	0						12	12	20
Total Mandays	135	80	80	84	86	98	100	103	108
Total Labour Cost (Total Mandays * Labour cost)	54000	32000	32000	33600	34400	39200	40000	41200	43200
GRAND TOTAL (Expenditure)	105900	49000	49140	55240	86420	104530	110130	110930	114130
Unit cost capitalised upto 6th year - rounded off to	560360								
Indicative Unit Cost									
Yield Payments		1	2	3	4	5	6	7	8
Years--->		0	0	0	0.25	0.5	1	1.25	1.5
1 Yield - kgs/tree					250	500	1000	1250	1500
2 Price per kg					170	170	170	170	170
Total Income per unit area/produce					42500	85000	170000	212500	255000
Expenditure					-43920	-19530	59870	101570	140870
Net Benefit									

Unit Size 1Ha
 Crop cashew
 Variety V4
 Spacing (mt * mt) 7 x 7
 Plant population per Ha 200
 Avg. Labour cost per manday 400
 Cultivation in irrigated mode

(Amount in `)									
Sl. No.		UNIT COST							
Economics of Cultivation		1	2	3	4	5	6	7	8
a. Material Cost									
i. Plant material(110% of requirement) ` 60 x 200 x 13200									
ii. Manures and Fertilizers									
ii. a FYM	6000	6000	12000	12000	12000	12000	12000	12000	12000
ii. b NPK	1800	12350	14000	21000	42120	42120	42120	42120	42120
iii. Plant protection chemicals									
iv. Others (Stake/Pandal)	500	1000	2200	2200	2200	2200	2200	2200	2200
Sub-Total (Materials)	1500								
	23000	19590	28200	35200	56320	56320	56320	56320	56320
b. LABOUR COST									
i. Site clearance and layout making									
ii. Pit digging	30								
iii. Planting	20								
iv. Manuring	4	10	15	25	25	25	25	25	25
v. Weeding	20	20	20	20	20	20	20	20	20
vi. Plant Protection	2	2	2	3	3	3	3	3	3
vii. Gap filling/staking/shade regulation etc.									
viii. Irrigation									
ix. Harvesting									
Total Mandays	86	42	47	63	63	68	88	118	118
Total Labour Cost (Total Mandays * Labour cost)	34400	16800	18800	25200	27200	35200	47200	47200	47200
GRAND TOTAL (Expenditure)	57400	36390	47000	60400	81520	83520	91520	103520	103520
Unit cost capitalised upto 6th year - rounded off to									
Indicative Unit Cost									
c. Yield Payments									
Years-->									
Yield - kgs/tree									
1		0.25	0.5	2	4	5	6	6	6
2 Price per kg		50	100	400	800	1000	1200	1200	1200
Total Income per unit area/produce	0	0	0	10000	40000	80000	100000	120000	120000
Expenditure	-57400	-36390	-47000	-55400	-71520	-43520	-11520	-3520	-16480
Net Benefit									

Unit Size
 Crop
 Variety
 Spacing (mt * mt)
 Plant population per Ha
 Avg. Labour cost per manday
Cultivation in irrigated mode

Sl. No.	Economics of Cultivation	UNIT COST						(Amount in `)
		1	2	3	4	5	6	
a. Material Cost								
i. Plant material(110% of requirement) ` 60 x175 x 110%	11580							
ii. Manures and Fertilizers								
ii. a FYM	6000	6000	12000	12000	12000	12000	12000	12000
ii. b NPK	4500	8600	12700	18000	19000	19000	19000	19000
iii. Plant protection chemicals	500	1000	2200	2200	2200	2200	2200	2200
iv. Others (Stake/Pandal)	4000							
Sub-Total (Materials)	26580	15600	26900	32200	33200	33200	33200	33200
b. LABOUR COST								
i. Site clearance and layout making	10							
ii. Pit digging	34							
iii. Planting	22							
iv. Manuring	4	10	15	25	25	25	25	25
v. Weeding	20	20	20	20	20	20	20	20
vi. Plant Protection	2	2	2	3	3	3	3	3
vii. Gap filling/staking/shade regulation etc.								
viii. Irrigation	10	30	30	30	30	30	30	30
ix. Harvesting				1	1	3	9	10
Total Mandays	102	62	67	79	79	81	87	96
Total Labour Cost (Total Mandays * Labour cost)	40800	24800	26800	31600	32400	34800	35200	38400
GRAND TOTAL (Expenditure)	67380	40400	53700	63800	64800	65600	68000	71600
Unit cost capitalised upto 6th year - rounded off to								
Indicative Unit Cost								
Yield Payments	1	2	3	4	5	6	7	8
Years-->								9
Yield -Nuts/tree				10	10	15	50	80
1 Total Nuts				1750	1750	2625	8750	14000
2 Price per Nut				10	10	10	10	10
Total Income per unit area/produce	0	0	0	17500	17500	26250	87500	140000
Expenditure				225250	272580	320680	362430	274930
Net Benefit	-67380	-40400	-53700	207780	255080	294430	303330	134930

Init size:= 1000 sq mts

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Crop:-

Spacing:-45*45

Plant population:- 6500 nos.

Average labour cost per manday :-

Wavelengths used were 450 nm and 550 nm.

Sr. No.	Economics of cultivation	Unit cost	Years			
			1	2	3	4
a.	Material cost					
i	Planting Material (6500 plants)	35	227500		260000	
ii	Manures and fertilizers	50	50000	20000	20000	20000
ii a	FYM	100	100000	40000	40000	40000
ii b	NPK	9	9000	30000	30000	30000
iii	Plant protection chemical	840	840000			
iv	Poly house erection	25	200000			
v	bed preparation	130	130000			
vi	Drip Irrigation		1556500	900000	350000	90000
b.	Labour cost					
i	site clearance and layout making	Mandays	10			
ii	pit digging	Mandays	11			
iii	planting	Mandays	11		11	
iv	manuring					
v	weeding					
vi	plant protection					
vii	Gap filling					
viii	Irrigation					
ix	Harvesting	Mandays	365	365	365	365
	Total mandays for all operation	Mandays	386	365	365	365
	total labour cost (Rs. 450 per day)		173700	164250	169200	164250
	Grand total (Expenditure)		1730200	254250	519200	254250
	Yield parameter					
	years		1	2	3	4
1	yield (nos. of flowers per year)	50	325000	325000	325000	325000
2	price per flower	2.5	2.25	2.25	2.25	2.25
	Total income per unit area		731250	731250	731250	731250
	Net benefit		-998950	477000	212050	477000

Unit Size 1Ha
 Crop Mango
 Variety Mancurad
 Spacing (mt * mt) 10X10
 Plant population per Ha 100
 Avg. Labour cost per manday 400

Cultivation in irrigated mode

(Amount in `)									
	Sl. No.	Economics of Cultivation	UNIT COST	1	2	3	4	5	6
		Material Cost							
i.		Plant material(110% of requirement) ` 80 x 100 x 110%	8800						
ii.		Manures and Fertilizers		6000	6000	6000	6000	6000	6000
ii. a		FYM		2000	3000	4000	5000	5000	6000
ii. b		NPK		500	1000	2200	14200	14200	5000
iii.		Plant protection chemicals		1500					14200
iv.		Others (Stakes/Pandal)		18000	9000	11200	12200	25200	14200
		Sub-Total (Materials)							14200
b. LABOUR COST									
i.		Site clearance and layout making		10					
ii.		Pit digging		5					
iii.		Planting		3	12	18	25	25	25
iv.		Manuring		9	9	9	9	9	9
v.		Weeding		2	2	2	3	3	3
vi.		Plant Protection							3
vii.		Gap filling/staking/shade regulation etc.							3
viii.		Irrigation		10	10	10	10	10	10
ix.		Harvesting			5	5	10	10	10
		Total Mandays		39	33	39	52	57	77
		Total Labour Cost (Total Mandays * Labour cost)		15600	13200	15600	20800	22800	30800
		GRAND TOTAL (Expenditure)		33600	22200	26800	33000	46000	48000
		Unit cost capitalised upto 6th year - rounded off to							
		Indicative Unit Cost							
		Yield Payments		1	2	3	4	5	6
		Years-->							7
1		Yield - Nos/tree							8
2		Price per No							9
		Total Income per unit area/produce		0	0	0	0	20000	200000
		Expenditure							40000
		Net Benefit		-33600	-22200	-26800	-33000	-6000	40000
									140000

THE GOA STATE CO-OPERATIVE BANK LTD.

HEAD OFFICE, PANAJI-GOA

SCALE OF FINANCE FOR CROP LOAN KARIF/RABI 2016-17
BREAK UP OF SCALE OF FINANCE

(Amt.in Rupees)

Sr. No.	Name of the Crop	Cost of cultivation per Plant/Acre	Bank LOAN	Fertilizers/ Manures	Irrigation	Plant protection	Seeds	Others	Due date for Repayment
1	2	3	4	5	6	7	8	9	10
1	Paddy Local	20000	20000	4250	0	500	1000	14250	15th Jan-KHARIF
2(a).	Paddy Kharif (H.Y.V.)	25000	25000	6000	0	1000	1000	17000	30th June-RABI
2(b)	Paddy Rabi (H.Y.V.)	28000	28000	6000	3000	1000	1000	17000	15th Jan- KHARIF
3(a).	Banana Local (Per Plant)	250	250	75	35	10	30	100	Maximum 18 Mth from the date of disb.
3(b)	Banana Local (Per Acre 600 plants)	150000	150000	45000	21000	6000	18000	60000	Maximum 18 Mth from the date of disb.
4(a).	Banana Local Ratoon (Per Plants)	200	200	75	30	15	0	80	Maximum 18 Mth from the date of disb.
4(b)	Banana Local Ratoon (Per Acre 600 plants)	120000	120000	45000	18000	9000	0	48000	Maximum 18 Mth from the date of disb.
5(a).	Banana Mandoli (Per Plant)	400	400	140	30	50	30	150	Maximum 18 Mth from the date of disb.
5(b)	Banana Mandoli (Per Acre 600 plants)	240000	240000	84000	18000	30000	18000	90000	Maximum 18 Mth from the date of disb.
6	Tissue Culture Banana (Per Acre 600 Plants)Variety Basara' Dwarf	103000	40000	20000	7000	18000	18000	18000	Maximum 18 Month from the date of disb.
7	Shreemati Gradenine and Local (TC) Papaya (Per Acre 600 plants)	108000	40000	20000	7000	18000	12000	10000	15 to 18 Month from the date of disb.
8(a)	Pine Apple high breed variety Giant (Local) (Per Acre 15000 Plant)	90000	90000	5000	4000	52500		18500	31st May
9(a)	Vegetable(Kharif) (Per Acre) Local	30000	30000	6250	2500	2000	2250	17000	6 months from the date of disb.
9(b)	Vegetable(Rabi) (Per Acre) Local	35000	35000	6250	5000	2500	3250	18000	6 months from the date of disb.
9(c)	High Breed vegetable	40000	40000	10000	5000	5000	5500	14500	6 months from the date of disb.
10(a)	Arecanut (Per Plant)	400	400	150	60	60	25	105	12 months from the date of disb.
10(b)	Arecanut (Per Acre 600 plants)	240000	240000	90000	36000	36000	15000	63000	12 months from the date of disb.

THE GOA STATE CO-OPERATIVE BANK LTD.
HEAD OFFICE, PANAJI-GOA

SCALE OF FINANCE FOR CROP LOAN KARIF/RABI 2016-17.
(Amt.in Rupees)

BREAK UP OF SCALE OF FINANCE

Sr. No.	Name of the Crop	Cost of cultivation per Plant/Acre	Bank LOAN	Fertilizers/ Manures	Irrigation	Plant protection	Seeds	Others	Due date for Repayment
1	2	3	4	5	6	7	8	9	10
11(a) Cashew (Per Plant)	275	275	60	10	50	30	125	15th Jun.	
11(b) Cashew	22000	22000	4800	800	4000	2400	10000	15th Jun.	
(Per Acre 80 plants)									
12(a) Coconut (Per Plant)	700	700	200	75	50	50	325	12 months from the date of disb.	
12(b) Coconut (Per Acre 60 plants)	42000	42000	12000	4500	3000	3000	19500	12 months from the date of disb.	
13 Groundnut (Per Acre)	19000	19000	2500	0	1500	4500	10500	30th June.	
14 Pulses (Per Acre)	15000	15000	1250	0	1500	2000	10250	30th June.	
15(a) Sugarcane (Per Acre)	60000	60000	11000	5500	6500	12000	25000	15 th June/30 th June	
15(b) Sugarcane (Ratoon) (Per Acre)	48000	48000	11600	5500	6500	0	24400	15 th June/30 th June	
16 Rubber Plantation (per acre)	11000	11000	2000	500	1500	0	7000	31st May	
17 Oil Palm (per Acre)	30000	30000	11250	3600	1000	0	14150	31st May	
18(a) (a) Mango (Per Plant)	1500	1500	250	50	200	80	920	31st July	
18(b) Mango (Per Acre 40 plants)	60000	60000	10000	2000	8000	3200	36800	31st July	
19(a) Floriculture New Crops	112000	112000	25000	16500	8000	40000	22500	30th June	
Bulbous crops (Per Acre)									
(Gladioli, Tuberose)									
19(b) Anthuriums (Per Acre)	112000	112000	34000	18000	10000	30000	20000	30th June	
Gerbera, Orchids etc.									
19(c) Grafted Varieties or Medium costs crops (Per 1000 sq mtr)	45000	45000	10000	9000	4000	11000	11000	30th June	
(Rose, Chrysanthemum etc.)									
19(d) Seed Varieties (Per 1000 sq mtr)	40000	40000	8750	5500	3000	11000	11750	30th June	
(Marigold, Aster, Crossandre etc)									
20 Vetiver/Medicinal plant	29200	29200	4200	2000	1000	10000	12000	12 months from the date of disb.	
21 Fodder	37500	37500	14000	3000	0	2500	18000	12 months from the date of disb.	
22 Fodder Ration (New plantation)	25000	25000	10000	3000	0	0	12000	12 months from the date of disb.	
23 Spices Nutmeg (New plantation)	350	350	50	0	0	120	180	12 months from the date of disb.	
24 Spices Black pepper (New plantation)	150	150	50	0	10	35	55	12 months from the date of disb.	
25 Ginger	80000	80000	14000	2000	3000	45000	16000	09-12 months from the date of disb.	
26 Turmeric	70000	70000	10000	2000	3000	40000	15000	09-12 months from the date of disb.	

DIRECTORATE OF AGRICULTURE

TONCA, CARANZALEM GOA

ESTIMATION OF AREA AVERAGE YIELD AND PRODUCTION OF VARIOUS CROPS IN GOA STATE FOR THE YEAR 2015-16

Name of the Crop		Area in Ha	Average yield in kgs/ha	Total production in tons
1	<u>PADDY</u>			
	Kharif	27730	4246	117733
	Rabi	13614	4030	54869
	Total:	41344	4175	172602
2	<u>RICE</u>			
	Kharif	27730	2830	78489
	Rabi	13614	2687	36579
	Total:	41344	2783	115068
3	<u>PULSES</u>			
	Kharif	171	754	129
	Rabi] 6983	843	5882
	Summer			
	Total:	7154	840	6011
Total foodgrains production incl. Pulses		--	--	121079
4	<u>GROUNDNUT</u>			
	Kharif	361	2042	737
	Rabi	1537	2146	3298
	Total:	1898	2126	4035
5	Sugarcane	1139	50989	58077
6	Cashewnut	56609	310	17549
7	Coconut	25818	5010	129.35 (million nuts)
8	Arecanut *	1783	1660	2960
9	Mango	4884	1220	5958
10	Banana ++	2414	11310	27302
11	Pineapple ^ ^ ^	378	16595	6273
12	Vegetables	7240	11408	82594
	Kharif] 3021	11360	34319
	Rabi			
13	Other fruits (Chickoo, Papaya, Jackfruit, Lemon etc)	3909	10680	41748
14	Oil Palm	834	2470	2060
15	Pepper	783	330	258
16	Kokum	39	20110	784
17	Sweet Potato	43	3120	134
18	Trees Spices ^ ^ ^	193	35	7
	Total:	106066		
Total cropped area in Ha		156462		
NOTE: In case of coconuts, unit is in million nuts and average yield is in Nos.				
*	25% Arecanut area is cultivated as a intercrop alongwith coconut crop.			
++	50% Banana area is cultivated as a intercrop alongwith arecanut and coconut.			
^ ^ ^	Pineapple and Trees Spices are cultivated as intercrops.			
E:\AREA AVERAGE YIELD AND PRODUCTION OF VARIOUS CROPS IN GOA STATE\2015-16				

**DIRECTORATE OF AGRICULTURE
TONCA CARANZALEM GOA**

ESTIMATED AREA UNDER PRINCIPAL CROPS FOR THE YEAR 2015-16 (GOA STATE))

(Area in Ha)

State/Distr ict/ Taluka	Rice		Other cereals/p ulses & oilseeds	Cassawnut	Trees Spices	Garden crops			Vegetable			Non Foodcrops			Total area sown under crops	Total non food crops	Total area sown under crops	Total area sown under crops	Chilliess	Total Rabi Veg									
	Rabi	Total				Kharif	Bamana	Sugarcane	Potato	Other garden crops	Kharif	Rabi	Ohipalm	Cocount	Others														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
GOA STATE	27730	13614	41344	9052	56609	1783	783	193	39	43	1139	4884	2414	378	3909	11585	3021	4219	7240	129810	25818	834	26652	156462	104	108	39	130	4457
NORTH GOA	13115	4439	17554	7724	37516	496	284	58	23	37	119	997	952	112	1662	3723	1277	2000	3277	70811	8925	322	9247	80058	93	66	23	78	2144
Tiswadi	3850	520	4370	290	4050	2	2	1	0	30	0	235	25	2	215	477	420	570	990	10212	1710	0	1710	11922	30	0	0	0	570
Bardez	5490	240	5730	2316	6423	21	20	5	6	1	0	239	60	9	290	598	260	205	465	15535	3045	2	3047	16632	1	10	6	17	232
Pernem	2735	1372	4107	4669	8632	11	22	4	12	2	41	183	85	73	256	597	300	666	966	18933	1666	0	1666	26629	2	36	12	37	739
Bicholim	620	1635	2255	201	7786	82	102	18	0	0	8	98	290	10	371	769	210	337	547	11768	1544	26	1570	13338	0	2	0	4	343
Sattari	420	672	1092	248	10725	380	138	30	5	4	70	242	492	18	530	1282	87	222	309	14233	960	294	1254	15537	60	18	5	20	260
SOUTH GOA	14615	9175	23790	1328	19093	1287	499	135	16	6	1020	3887	1462	266	2247	7862	1744	2219	3963	58999	16893	512	17405	76404	11	42	16	52	2313
Ponda	1180	1865	3045	0	3472	992	173	15	1	0	5	465	374	152	635	1626	500	204	704	10033	2488	2	2490	12523	0	1	1	5	210
Sanguem	445	1575	2120	9	5403	89	135	70	3	4	580	719	155	28	298	1200	74	85	159	9672	2735	289	3004	12676	4	6	3	15	106
Dharbandor	575	400	975	1	1880	58	50	8	0	0	103	130	63	18	134	345	55	40	95	3515	286	60	346	3861	0	6	0	10	56
Canacona	2540	810	3350	35	3425	85	62	13	2	2	206	640	246	15	512	1413	310	370	680	9273	1795	0	1795	11068	2	5	2	0	375
Quepem	3485	2300	5785	12	2587	63	68	27	10	0	122	271	523	27	380	1201	70	147	217	10092	2200	178	2378	12470	0	20	10	12	179
Salcete	5990	1780	7770	746	1947	0	8	2	0	0	4	1555	76	26	251	1888	710	1205	1915	14280	6130	3	6133	20413	5	0	0	5	1210
Mormugao	400	445	845	525	379	0	3	0	0	0	0	127	25	0	37	189	25	168	193	2134	1259	0	1259	3393	0	4	0	5	177

DIRECTORATE OF AGRICULTURE
TONCA CARANZALEM GOA

PATTERN OF LAND UTILIZATION FOR THE YEAR 2015-16

(Area in Ha)

State/District/ Taluka	Total reported area according to village papers for land utilization	Forest			Land not available for cultivatio n	Permanent pastures and other grazing land	Land under miscellaneous tree crops & groves not included in the area sown	Cultivable waste land (including fallow land)	Fallow land		Area sown more than once	Total cropped area	Rabi
		Govt.	Private	Total					Current fallow	Net area sown			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
GOA STATE	361113	105473	20000	125473	37137	1305	580	52533	0	13976	130109	26353	156462
NORTH GOA	142208	26465	5446	31911	18120	386	221	16436	0	8725	66409	13649	80058
Tiswadi	16611	178	--	178	3394	--	143	950	0	1664	10282	1640	11922
Bardez	26480	--	10	6100	--	29	1003	0	3201	16137	2495	18632	23279
Pernem	24200	1319	450	1769	2188	--	-	5336	0	526	14381	6248	20629
Bicholim	25633	716	380	1096	4200	153	45	4690	0	2275	11174	2164	13338
Sattari	51284	24252	4606	28858	2238	233	4	4457	0	1059	14435	1102	15537
SOUTH GOA	218905	79008	14554	93562	19017	919	359	36097	0	5251	63700	12704	76404
Ponda	25228	2931	200	3131	2399	243	349	6476	0	2176	10454	2069	12523
Sanguem	88660	50070	6410	56480	4540	99	10	12649	0	450	11012	1664	12676
Dharbandora										3420	441	3861	88210
Canacona	34736	14328	5721	20049	1383	--	--	3224	0	217	9863	1205	11068
Quepem	34731	11679	2218	13897	756	577	--	8957	0	531	10013	2457	12470
Saete	27719	--	5	5	5261	--	--	4030	0	1740	16683	3730	20413
Mormugao	7831	--	--	--	4678	--	--	761	0	137	2255	1138	3393
													7654
													613

NEW VARIETIES APPROVED FOR CULTIVATION IN GOA

DEVELOPED BY

ICAR – Central Coastal Agricultural Research Institute (CCARI), Ela, Old – Goa

Variety: Goa Cashew-3 (Ganje-2)

- The promising mother tree of this selection was spotted in Ganje Village of Ponda Taluka.
- The growth habit is vigorous with spreading canopy and extensive branching pattern.
- The variety, Ganje -2 has mid season bearing, high yielding traits, with higher number of bisexual flowers resulting in bunch bearing habit. Nuts are bold and well filled to yield higher kernel out-turn. Bigger yellow apples are juicy.
- Average yield for seven harvests is 6.5 kg/tree
- Because of the high yield potential, with higher no. of bisexual flowers, and higher bunch bearing capacity, along with bigger apple size and higher content of juice, this variety would be suitable for the Goan farmers and processors.



Variety: Goa Cashew- 4 (KN – 2/98)

- The promising mother tree of this selection was spotted in Suntegal Village of Quepem Taluka in South Goa District during the survey in 1996 under an Ad-hoc Project. Clonal progeny of this plus tree was evaluated under the accession name –KN2/98, during 1997-2010.
- Vigorous with semi spreading growth habit
- This selection (KN2/98) is mid season bearing, high yielding trait, higher bunch bearing capacity with bold nut size and higher shelling percentage. apples are bigger and juicy.
- The variety is susceptible to TMB and CSRB
- Average yield for six harvests is 5.98 kg/tree
- The highest yield of individual tree: 14.6 kg/tree during 2008- 09 season.

Because of the high yield potential, bold nut size with higher shelling percentage, export grade kernels and bigger apples, this variety would be suitable for Goan farmers and processors.



Variety: Goa Cashew-2 (Tiswadi - 3)

- The promising mother tree of this selection was spotted in Ela Village of Tiswadi Taluka in North Goa District during the survey in 1998 under an Ad-hoc Project. Clonal progeny of this plus tree was evaluated under the accession name – Tiswadi-3, during 1998-2010. This selection (Tiswadi-3) is early to mid season type, high yielding and has Jumbo nut size with higher shelling percentage of exportable kernel grade of 180 W and bigger and juicy apple
- Average yield for 7 harvests is 6.68 kg/tree
- The highest yield of individual tree: 21.68 kg/tree during 2006- 07 season.
- Affected by CSRB and moderately affected by TMB
- Because of the high yield potential, jumbo nut size with higher shelling percentage and export grade kernels and bigger apples, this variety would be suitable for the Goan farmers and processors



Distinguishing morphological Characteristics:

Sr. No.	Character	Goa cashew 3 Ganje- 2	Goa cashew – 4 KN – 2/98	Goa Cashew- 2 Tiswadi- 3
1.	Tree Height (at 10 year)	12.8 m	4.5 m	5.8 m
2	Branching Pattern	Extensive	Extensive	Extensive
3	Canopy	Spreading	Semi spreading	Semi spreading
4	Leaf Size	Large, Obovate	Large, Obovate	Large, Obovate
5	No. Flowering Laterals per M ² canopy	24.1	21.2	18.86
6	Panicle shape	Pyramidal	Narrowly pyramidal	Broadly pyramidal
7	Sex ratio (Ratio of Bisexual flowers to Total number of flowers)	0.18	0.16	0.064
8	Season of flowering	Dec.–January	Mid Nov.– Mid Feb.	Dec– Mid February
9	Duration of flowering	80-90 days	80-90 days	70– 80 days
10	Season of Harvest	February- May	Mid February – May	Mid February- April

	Nut Characteristics			
11	Av Nut Weight.	8.2 g	8.2 g	9.6– 10.2 g
12	Number of Nuts / kg	130-140	120-125	105– 110
13	Shelling Percentage	29.5 %	29.59 %	28.82- 29.55 %
14	Kernel weight	2.16-2.28 g	2.68 g	2.42 g
15	Whole Kernel Counts per lb	W 210– W 240	W 210– W 240	W 180– W 210

	Apple Characteristics			
16	Apple Colour	Yellow	Red	Yellowish orange
17	Apple Shape	Rounded	Conical	Cylindrical
18	Av Weight of apple	94.0 g	107.5g	105 g
19	Juice Contents	69.17%	71.14%	68.2– 72.0 %
20	TSS contents	12.2° B	13.8° B	10.8– 12.2° B

READY RECKONER FOR

(RECOMMENDATIONS ARE FOR 1000 Sq. Mt. IN FIELD CROPS & PER PLANT PER YEAR FOR TREE CROPS)

CROP	VARIETIES	PLANTING SEASON	SEED/PLANT	PLANTING & SPACING
FRUITS CASHEW	Vengurla – 4, 7, 8, Balli – 2	May - Jun	6-10 months old grafts with 4-5 leaves	60x60x60 cms – pits 7x7 mts
COCONUT	Benaulim, Hybrids Calangute, Chowghat dwarf	May - Jun	One year old seedling with 5-6 leaves	1x1x1 mt – pits 8x8 mts
MANGO	Malcurado, Hilario, Alphonso, Ratna Amrapalli	Onset of monsoon	10 – 12 months grafts with 10 – 12 leaves	1 X 1 X 1 – pits 10 x 10 Mts.
BANANA	Saldati, Raspali, Maindoli, Velchi, Savarboni, Grand naine	May - Jun, Oct	Sword suckers, Tissue culture plants with 3 – 4 leaves	60 X 60 X 60 cms. – pits 1.5 x 1.5 Mts. to 3 x 3 Mts.
PAPAYA	Co-1, Red Lady, Taiwan	June	Seedling / Seed	Pits -- 30 X 30X30 cms 2X2mtr
SPICES BLACK PEPPER	Panniyur – 1, IISR Shakti, IISR Thevam	Sep - Oct	Rooted cutting with 3 – 4 leaves	60 X 60 X 60 cms. – pits 0.5 Mt. away from standard
NUTMEG	Konkan Sugandha	May - Jun	One year graft with 5 – 6 leaves	60 X 60 X 60 cms. – pits 7 x 7 Mts.
CHILLY	Local Khola, Aldona, Sai Priya, UG 6609	Jan, Jun	Seed – 50 gms.	Ridges 60 x 30 cms. 75x75 cms. for hybrids
KOKUM	Konkan Amruta	May, Jun	One year graft with 5 – 6 leaves	60 X 60 X 60 cms. – pits 6 x 6 Mts.
FLOWERS MARIGOLD	Local, African, French, Hybrids	Throughout the year	Seed – 10 gms.	Raised/Flat beds, ridges 45 X 45 cms.
JASMINE	Mogra, Jai , Jui	June	Cuttings, layers	60 X 60 X 60 cms. – pits 2 x 2 Mts.
ORCHID	Terrestrial, Epiphytic - Dendrobiums	Throughout the year	2 – 10 month tissue culture plants	Coconut husk as media 1000pots/100 Sq. Mts.
VEGETABLES CUCUMBER	Local, Hirangi, Poona Kheera	May – Jun Oct – Nov Jan – Feb	Seed – 100 gms.	Soil mounds, Trellis 2 x 2 Mts.
BHENDI	Local, JK – 65, Sahiba, Bhendi - 10	Mar – Oct	Seed – 500 gms.	Ridges 60 x 30 cms.
RED AMARANTHUS	Local, CO-1	May /June Oct/Nov Jan/Feb	Seed - 250 gm	Line 15 -20 cms
CLUSTER BEAN	Milan	May /June Oct/Nov Jan/Feb	Seed – 400 gms	Line 45 X 30 cms.
RADDISH-MULA	Pusa, Hybrid Shweta	May /June Oct/Nov Jan/Feb	Seed - 1 kg	Line 30 – 60 cms
BRINJAL	Manjari, Agassim Long / Round, Krishna, Ruchira, Surya	May /June Oct/Nov Jan/Feb	Seed / Seedling	Line 75X60 cms. 60X60 cms.
FOOD GRAINS PADDY	Korgoot, Azgo, Jaya, Jyoti, Karjat – 3, Warangal	May – Jun, Nov – Dec	Seed – 2 – 8 kgs. Treat with Azotobacter	Broadcasting, Transplanting, SRI 20 x 15cms, 25x 25 cms.
COWPEA	Alsando, Pusa komal	June, Oct – Nov	Seed 3 – 5 kgs. Treat with Rhizobium	Dibbling on ridges, Sowing behind plough 45 x 15 cm
GROUNDNUT	TAG – 24, Phule pragati, Trombay konkan	August, Nov - Dec	Kernels 10 Kgs. Treat with Rhizobium	Dibbling, Sowing behind plough 40 X 15 cms.

IMPORTANT CROPS OF GOA

FERTILISER DOSE AT PRODUCTIVE STAGE (only indicative)-Kgs	PEST, DISEASES AND THEIR MANAGEMENT	YIELD	NUTRITION
Neem cake-1, Rock Phosphate-2, Compost-10, Green manure-50, 10:26:26-2, Potash-0.5	Cashew stem and root borer- Avoid wounds, Tea mosquito bug	8-15 Kg	Vitamin B, Zinc, selenium, Iron
Neem cake - 1, Rock Phosphate – 3, Compost – 10, Green manure – 50, 10:26:26 – 3, Potash – 1	Rhinoceros beetle, Red palm weevil- Avoid wounds, Pheromone traps Bud rot-Bordeaux mixture 1 %	100-150 Nuts	Vitamin B complex, Calcium, Iron
Neem cake – 1, Rock Phosphate – 3, Compost – 10, Green manure – 50, 10:26:26 – 3, Potash – 1	Mango fruit fly – Methyl Eugenol traps Mango hopper	800-1000 fruits	Vitamins, Copper, Potassium, Iron
Neem cake – 1, Rock Phosphate – 1, Compost – 10, Green manure – 20, 10:26:26 – 0.3, Potash – 0.1. In 4 splits once in 2 months	Bunchy top – uproot & bury/burn plants Pseudo stem weevil	25 – 30 kgs.	Vitamin A, B, C, Potassium, Iron
Neem cake – 1, Rock Phosphate – 1, Compost – 10, Green manure – 20, 10:26:26 – 0.3, Potash – 0.1. In 4 splits once in 2 months	Mosaic virus - uproot & bury/burn plants	1000 Kgs./ 1000 Sq. Mts.	Vitamin A, B, C, Potassium, Calcium
Neem cake – 1, Rock Phosphate – 1, Compost – 10, Green manure – 20, 10:26:26 – 0.5, Potash – 0.25	Quick wilt, slow wilt – Bordeaux mixture – 1 % Trichoderma	0.5 to 3 Kgs.	Improves digestion, intestinal Health, Vitamin A, Co
Neem cake – 1, Rock Phosphate – 2, Compost – 10, Green manure – 50, 10:26:26 – 2, Potash – 0.5	Fruit rot, Die back - Bordeaux mixture – 1% Trichoderma	1000 – 3000 nutmeg	Protein, Iron, calcium, Potassium
Neem cake – 25, Rock Phosphate – 50, Compost – 1000, 10:26:26 – 50, at planting; Potash – 15, Urea – 15 after 6 weeks	Damping off, Wilt - Drenching – Bordeaux mixture – 1 % Trichoderma, Leaf curl - Neem oil	1000 kgs. Green	Vitamin A,B, C, Iron, Copper
Neem cake – 1, Rock Phosphate – 2, Compost – 10, Green manure – 50, 10:26:26 – 2, Potash – 0.5.	Leaf miner, Die back- Bordeaux mixture – 1 %, Trichoderma	40 - 50 kgs.	Vitamin B, C, Potassium
Neem cake – 25, Rock Phosphate – 50, Compost – 1000, 10:26:26 – 30, at planting; Potash – 4, Urea – 8, after 4 weeks	Damping off, Wilt - Drenching – Bordeaux mixture – 1 %, Trichoderma	1000 kgs.	
Neem cake – 0.5, Rock Phosphate – 1, Compost – 5, Green manure – 20, 10:26:26 – 0.25, Potash – 0.2 Per plant	White ants Bud worm	500 kgs.	
19:19:19 water soluble – 5 gms/1 L water, Micronutrient, Neem oil, Fermented cow urine spray twice a week	Aphids,Mealy bug, Scales Snails – hand picking – during evening	5 – 8 spikes	
Neem cake – 25, Rock Phosphate – 50, Compost – 1000, 10:26:26 – 20, at planting; Potash – 4, 10:26:26 – 4, after 4 weeks	Fruit fly – Use Pheromone trap	2000 kgs.	Most Vitamins, Molybdenum
Neem cake – 25, Rock Phosphate – 50, Compost – 1000, 10:26:26 – 25, at planting; Potash – 4, Urea – 4 after 4 weeks	Yellow vein mosaic virus – Remove the plant & burn, Use Resistant varieties – JK 62, JK 65	1500 kgs.	Most Vitamins, rich in dietary fibre, Iron
Neem cake – 25, Rock Phosphate – 50, Compost – 1000, 10:26:26 – 5, at planting; Potash – 2, Urea – 2 after 3 weeks	Avoid using pesticide for leafy vegetables	1000 kgs.	High Protein, Vitamin B, C, Iron, calcium
Neem cake – 25, Rock Phosphate – 50, Compost – 1000, 10:26:26 – 25, at planting; Potash – 4, Urea – 4 after 4 weeks	No major pest and diseases	500 kgs.	Most Vitamins, minerals, dietary fibre
Neem cake – 25, Rock Phosphate – 50, Compost – 1000, 10:26:26 – 5, at planting; Potash – 2, Urea – 2 after 3 weeks	No major pest and diseases	2000 Kgs.	Vitamin B, C, calcium, dietary fibre
Neem cake – 25, Rock Phosphate – 50, Compost – 1000, 10:26:26 – 25, at planting; Potash – 4, Urea – 4 after 4 weeks	Damping off, Wilt - Drenching – Bordeaux mixture – 1 %, Trichoderma Leaf curl - Neem oil	2500 Kgs.	Vitamin K, Potassium, manganese
Neem cake–25, Rock Phosphate–50, Compost–1000, 10:26:26–25, at planting; Potash–2, Urea–4 after 20 and 50 days	Leaf folder, case worm - Place Tricho card in the field Blast – Use Resistant varieties	300 – 600 kgs.	Carbohydrate, Minerals, Antioxidants
Neem cake – 25, Rock Phosphate – 50, Compost – 1000, 18:46:0 – 15, at planting; Top dress with Potash – 2 after 40 days	Pod borer, Aphids – Neem oil 25 ml/10 lts. of water	100 kgs.	Vitamin B, Proteins, Minerals
Neem cake – 25, Rock Phosphate – 50, Compost – 1000, 18:46:0 – 15, at planting; Top dress with Potash – 2 after 40 days	Leaf spot Rust	150 – 300 kgs.	Vitamin B, C, Proteins

NEW VARIETIES APPROVED FOR CULTIVATION IN GOA

DEVELOPED BY

ICAR – Central Coastal Agricultural Research Institute (CCARI), Ela, Old – Goa

RICE – Variety: Goa Dhan 1 (KS -12)

- It is derived through pure line selection from local land race – KORGUT.
- The selection is high yielding having short bold grain type suitable for both raw rice and for par boiled rice.
- The variety is suitable for Coastal saline soils. (Khazan lands)
- The variety is non lodging medium duration, semi tall, having short bold grain (white Kernelled) type.
- The plant height is 122 cms.
- It is a medium duration variety taking 135 – 140 days for maturity.
- Fairly tolerant to major diseases and major insect pests prevailing in Goa.
- For transplanted condition 30 kgs. seed is required, while for broadcasting 50 – 60 kgs.
- The variety possesses short bold grains with attractive shining yellow grain colour which is liked by farmers and consumers.
- It is slightly late and shorter in height as that of parent mix population. Unlike original parent it is non lodging and suited for coastal salinity conditions.
- Spacing of 20 cms. between rows and 15 cms. between seedlings is recommended.
- The yield is 4.5 – 5 tonnes per Ha.

RICE - Variety: Goa Dhan 2 (KS -17)

- It is derived through pure line selection from local land race – KORGUT.
- The selection is high yielding having medium bold grain type suitable for both raw rice and for par boiled rice.
- The variety is suitable for Coastal saline soils. (Khazan lands)
- The variety is having medium bold grain (red Kernelled) type. It is suitable for low input management conditions and also gives good straw yield for fodder purpose.
- The plant height is 147 cms.
- It is a medium duration variety taking 135 – 140 days for maturity.
- Fairly tolerant to major diseases and major insect pests prevailing in Goa.
- For transplanted condition 30 kgs. seed is required, while for broadcasting 50 – 60 kgs.
- The variety possesses medium bold grains with attractive shining yellow grain colour which is liked by farmers and consumers.
- Spacing of 20 cms. between rows and 15 cms. between seedlings is recommended.
- The yield is 4.5 – 5 tonnes per Ha.

DEPARTMENT OF CIVIL SUPPLIES AND CONSUMERS AFFAIRS, PANAJI AIMS AT

The Department plays a bi-lateral role in two sectors i.e matter related to Civil Supplies and Consumer Affairs.

i. In the pursuit of maintaining proper supply of Essential Commodities, the Department is entrusted with:

- (i) Proper functioning of Fair Price Shops & availability of Essential commodities in these Fair Price Shops.
- (ii) Supply of pure kerosene & check on its pilferage.
- (iii) Supply of pure petrol & diesel & check on its pilferage.
- (iv) Ensuring proper acquisition, sale and storage of Naphtha, Solvent, Raffinate & Slop and prevention of its use in Automobile.
- (v) Ensuring non-commercial use of domestic L.P.G. cylinders.

Along with this, the Department runs special beneficiary schemes for Below Poverty Line people, viz. Annapurna Anna Yojna, Antyodaya Anna Yojna, etc. The Department has taken a corrective steps to curb the irregularities by computerizing The Ration Card data and seeding of Ration Cards with Aadhar numbers.

ii Consumer Affairs.

The Government has established Grievance Redressal Machinery to safeguard consumer's rights. The Government has established State Commission and two District Forums to settle Consumer complaint regarding goods & service. Consumer complaint can include:-

- (a) Loss or damage suffered due to unfair trade practise by any trade
- (b) Defective good
- (c) Price of goods charged is excess than fixed by law/displayed on packet/displayed on goods.

You may complaint before

1. District Forum, Porvorim/Margao
2. State Commission
3. National Commission
4. Consumer Conciliation Committee Mechanism Panaji-Goa.
5. Lok Adalat at both Districts

If complaint value

- Up to Rs. 20 lakhs
- Up to Rs. 1 crore
- Above Rs. 1 crore
- Amicable Settlement

PLEDGE FOR THE BETTERMENT OF ALL GOANS AND ALL CONSUMERS.

Issued By:

Government of Goa,
Department of Civil Supplies & Consumer Affairs,
Junta House, Panaji Goa.
Pincode:- 403001





Academic Excellence And Enlightened citizenship is our endeavour through:

- Establishment of SCERT
- Establishment of Knowledge Commission
- Establishment of Integrated Education Advisory Council.
- Introduction of NCERT Syllabus and Text Books.
- Establishment of state-of-the Art computer laboratories in secondary and higher secondary school under ICT scheme.
- EDUNET (Cyberage) student scheme
- Laptop Scheme for Teachers.
- Sarva Shiksha Abhiyan.
- Infrastructure Development Loan Scheme
- Vocational Education
- Environmental Education Scheme
- Mid Day Meal Scheme (stds.I-VIII).
- Free text books for student of std. stds.I-VIII.
- Free uniforms, notebooks and raincoats for students of std..I-IV.
- Revised scheme for education of children with special needs (disabled children).
- Girls Education Motivation Scheme.
- School Complex Programme.
- Bharat yatra.
- Adoption of Govt. School Scheme
- Scheme for Minor repairs of Government Schools by Village/Urban Education committee.
- Construction of New Directorate of Education building.
- Development of Sanskrit Education.
- Revised Opportunity Cost Scheme for S.C. and S. T. students.
- Scheme for literacy and vocational training for adults.
- Scheme for establishment of Intergrated Educational Complexes at Bambolim, Margao, Mapusa etc.
- Scheme for promoting and strengtheing Pre-Primary Education
- Scheme for promoting Pre-Vocational Education(in high schools)
- Rastriya Madhyamik Shiksha Abhiyan.
- Mobile School and programme for out - of - school children
- Smart Classroom Project.
- Open time grant for Schools completing 100/75 years of existence.

**DIRECTORATE OF EDUCATION
GOVERNMENT OF GOA**



GOA STATE AGRICULTURAL MARKETING BOARD
Margao Main Yard, Arlem, Raia, Salcete-Goa. 403720
Ph: (0832) 274 1957 | 274 1958 | Fax : 274 1959

We facilitate and regulate the trading of agricultural commodities notified by the Government from time to time, so as to benefit producers and the public at large for getting quality product at affordable prices.

Salient features of our Market Yards

- Amenities such as storage, canteen, offices, bank, fumigation Chamber, coconut auctions, grading & weighment facilities have been provided at the market subyards established in the State of Goa.
- Pledge finance scheme and the agricultural produce arrival incentive scheme is introduced to the producers.

For Details Contact:
REGULATED MARKET YARDS

Margao Mainyard.....	2741958	Curchorem subyard...	2650302
Canacona Subyard.....	2643833	Ponda subyard....	2332111
Sanquelim Subyard....	2364265		
Mapusa Subyard.....	2262803	Valpoi subyard.....	2375292



Deen Dayal Swasthya Seva Yojana [DDSSY]

A. Eligibility.

Any person residing in the State of Goa for five years or more is eligible person under DDSSY, [Central/State Government employees and their families are covered under government medical reimbursement and therefore, not eligible under DDSSY]

B. Registration/Annual Renewal charges [for the card] as under:

For family of 3 and less, Rs.200/-

For family of 4 and above, Rs.300/-

Concession of 50% for OBC/SC/ST/ Differently abled head of family.

C. Documents for enrollment:

Application forms

Aadhaar cards of all family members

Ration card (if any)

Residence Proof-Passport/Driving license/Bank Account/

Election Card/ Residence Certificate

D. Benefits:

Benefits under this scheme should be provided on a cashless basis to the beneficiaries upto the limit of their annual coverage, as per details as under:

Cover of upto 2.5 lakhs per annum for a family of three or less members.

Cover of upto 4 lakhs for a family of four and more members.

For Enrollment contact “Swasthya Seva Kendra” in respective Talukas & for more details contact nearest health centre/ www.ddssygoa.com

E-mail : ddssygoa@uiic.co.in

Helpline Number : 0832-2438844

Issued by:

Government of Goa

Directorate of Health Services

Health Education Bureau

Panaji Goa



10 GOLDEN RULES FOR ROAD SAFETY



1 Normal speed meets every need

2 Leave sooner, drive slower, live longer.

3 Its better to loose one minute than to loose life in one minute.

4 Avoid **RASH** driving and be a courteous driver



5 Always wear helmet / seat belt while driving



6 Know the road signs and obey them

7 Give priority to pedestrians on zebra crossing



8 Do not drive after drinking



9 Do not violate speed limits



10 Do not use mobile phone while driving or while crossing the road

"Driving Faster Causes Disaster"



Issued by :

**Directorate of Transport
GOVT. OF GOA**

**GOVERNMENT OF GOA
DIRECTORATE OF TRIBAL WELFARE**



Shrama Shakti Bhavan, 5th Floor, Patto, Panaji-Goa

Tel. 2438024 No. Fax No. 2438052

DIFFERENT SCHEMES OF THE DEPARTMENT

➤ **Pre-Matric Scholarship:**

- a). Scholarship Amount Rs. 3575/- per annum for students of class Std. V to VIII.
Rs. 4125 per annum for students of Class IX and Class X.

- b). Meritorious Scholarship for students securing 50% marks and above in the qualifying exams.

Students of class V and VI	Students of Class VII and VIII	Students of Class IX	Students of Class X
Rs. 900/-	Rs. 1000/-	Rs. 1100/-	Rs. 1600/-

- **Vidya Laxmi:** Rs. 25,000/- as fixed Deposit for 2 years. Amount released upon certification by the School incharge that the Student has completed 12th std/ H.S.S.C.

➤ **Home Nursing:**

- Up to Rs. 3500/- for Home Nursing Course with duration of minimum six months.
- Up to Rs. 5000/- for Diploma Course in Nursing with duration of minimum One year.
- Up to Rs. 3500/- for course of Health Worker of One year duration.

➤ **Grants to Voluntary Organizations for running hostels for ST students**

- Maintenance grants to the institution of Rs. 1500/- per month per students for a period of 10 months in a year.
- Financial assistance for payment of wages/rent for a period of 10 months in a year for following staff.
= Warden Rs. 10,000/- p.m.
= Clerk cum stores incharge Rs. 10,000/- p.m.
= Cook Rs. 8000/- p.m.
- Rent Charges of Rs. 5000/- p.m. in urban areas and Rs. 2500/- in rural areas.

- **Post Matric Scholarship:** Reimbursement of non refundable tuition fee, Maintenance allowances for day scholars and for Hostellers at the rates depending upon the Group of course.

- **Book Bank Scheme:** Cost of the Set of Books for the Library and a Cupboard.

- **Gagan Bharari Shiksha Yojana:** Rs. 7500/- per annum for Day Scholars and Rs. 15000/- per annum for Hostellers.

➤ **Merit Base Award and recognition of High performers in Board exams.**

- Rs. 20000/- for the first five Rank Holders of Board Exams.
Merit base award for high performers in Board exams.

for scoring 75% and above	for scoring 70% and above,	for scoring 60% and above,	for scoring 50% and above.
Rs. 15000/-	Rs. 10,000/-	Rs. 8000/-	Rs. 5000/-

- **Sahayata:** Financial Assistance of Rs. 50,000/- is provided under the Scheme for the BDOs, Dy. Collector & SDO/Panchayat Raj Institutions/Committees constituted under Forest Rights Act. For the NGOs financial assistance of 80% of the programme is provided by this Directorate & remaining 20% should be contributed by NGO.

- **Antya Sanskar Sahay Yojana:** Re-imbursement of the cost incurred upto to Rs.20,000/-

- **Atal Asra Yojana:** Financial Assistance for construction of New House/Reconstruction of Existing house up to Rs. 2,00,000/- and repairs of existing house upto Rs. 75000/-

➤ **Scheme to Support Orphan child/ Children of Widow belonging to ST community**

- Fixed maintenance allowance of Rs. 1500/- per month per child of widow
- Fixed maintenance allowance of Rs. 2000/- per month per child who is an orphan. (Benefit limited to two children)

- **Prashikshan Yatra:** Financial Assistance up to **Rs.1.5 Lakh** for the institutions conducting Study tour for incurring expenditure on travel and food of the students upto **40** number and **four** teachers.

- **Sanskriti Bhavan:** Project Cost Up to Rs. 2.00 Crores including Cost of land.

➤ **Adivasi Vikas Yojana:**

- The estimated cost of new Infrastructure Development project shall not exceed 1.25 crore per project.
- The estimated cost of up gradation / renovation etc. of the project shall not exceed 60 lakhs per project.
- The amount of deposit for land acquisition shall not exceed 60 lakh per project.

➤ **Udyog Adhar Yojana:**

- Financial Assistance of maximum **Rs. 1,00,000/-** per annum will be given for purpose of value addition in their products and for skill development.
- Financial Assistance of **Rs. 50,000/-** per annum to buy raw materials, making charges, labour charges etc.
- The actual cost of transportation, participation fees, daily allowance will be given to the applicant/group with the maximum limit of Rs. **50,000/-** per annum for purpose of organizing exhibition, fair, workshop etc.
- Actual cost of organizing exhibition/ fair/ workshop etc. with the maximum limit of **Rs. 1,00,000/-**.

**GOVERNMENT OF GOA
DIRECTORATE OF SPORTS & YOUTH AFFAIRS
CAMPAL, PANAJI-GOA.**

SCHEMES

- ✓ Conduct of Primary/Middle Schools/Sports Festival.
- ✓ Conduct of Middle/Secondary and Higher Secondary Schools/Sports Competitions.
- ✓ Development of Govt. Village Playground.
- ✓ Conduct of Refresher Courses for Physical Education Teachers/Coaches etc.
- ✓ Supply of Sports Equipments to Government and Non-Government Schools.
- ✓ Promotion of Yoga Education.
- ✓ Establishment Gymnasia.
- ✓ Celebration of days of State and National Importance.
- ✓ Conduct of Civil Services Sports for Government employees.
- ✓ Release of Grants to the Sports Authority of Goa.
- ✓ Conferring of jivababa Kerkar State Sports Awards.
- ✓ Conferring of Dilip Sardesai Sports Excellence Award.
- ✓ Grant to Non-Government Secondary Schools and Colleges, for development of Playgrounds /Multipurpose Halls.
- ✓ Establishment of Sports Hostels.
- ✓ Promotion of National Cadet Corps (N.C.C.) at School, Higher Secondary and Colleges.
- ✓ Promotion of National Service Services (N.S.S.) at Higher Secondary and Colleges.
- ✓ Promotion of Junior Red Cross at School Level and Youth Red Cross at Higher Secondary Level Education.
- ✓ Promotion of Scouts and Guides activities at Secondary School Level.
- ✓ Promotion of Youth Welfare Programmes for Students and Non-Students.
- ✓ Celebration of National Youth Week.
- ✓ Establishment of Camp Sites for promotion of Youth Activities.
- ✓ Promotion of adventure activities for Youth.
- ✓ Establishment of Youth Hostels.
- ✓ Recommendations for National Youth Awards.
- ✓ Conduct of Youth Festivals at District and State Level & participation at the National level.
- ✓ Inter State Exchange of Youth Scheme.
- ✓ Prize money to winners and Runner-up Middle/Secondary Schools/Higher Secondary Schools.
- ✓ Financial Assistance to Sportsperson indigent circumstance.
- ✓ Issue of Form-IV for registering sportspersons in Employment Exchange.
- ✓ Issue of Sportsman Certificates for seeking admission in professional Colleges.
- ✓ Issue of Sports Merit Marks as per State Sports Policy.
- ✓ Implementation of Sports Policy.
- ✓ Implementation of Youth Policy.





GOVERNMENT OF GOA

**PARTICIPANTS IN THE DEVELOPMENT OF THE STATE
BY EXECUTING THE DEVELOPMENT WORKS UNDER
WATER RESOURCES:-**

THROUGH CONSTRUCTION OF:-

1. SALAULIM IRRIGATION PROJECT.
2. TILLARI IRRIGATION PROJECT.
3. ANJUNEM IRRIGATION PROJECT
4. COMMAND AREA DEVELOPMENT WORKS IN BOTH ANJUNEM & SALAULIM IRRIGATION PROJECT.
5. MINOR IRRIGATION SCHEMES SUCH AS CONSTRUCTION OF BANDHARAS, TANKS, WELLS AND LIFT IRRIGATION ON VARIOUS RIVERS, RIVULETS, 168 BANDHARAS COMPLETED.
6. FLOOD CONTROL, ANTI - SEA EROSION AND DRAINAGE WORKS AND MANY MORE OTHER SCHEMES UNDER WATER RESOURCES DEVELOPMENT.

**ISSUED BY: - Water Resources Department,
Sinchai Bhavan,
Alto Porvorim,
Bardez – Goa, 403521**



DIRECTORATE OF PANCHAYATS

GOVERNMENT OF GOA

3rd Floor, Junta House,

Panaji – Goa. 403 001

Email: dir-panc.goa@nic.in Website: panchayatsgoagov.in Phone: 2222586 Fax: 2222863

The Directorate of Panchayats oversees the entire administration of the Village Panchayats and the Zilla Panchayats in the State of Goa and provides financial assistance to the Panchayati Raj Institutions (PRIs) for strengthening their administration through the following schemes :-

DEENDAYAL INFRASTRUCTURE DEVELOPMENT SCHEME

The infrastructure development project upto Rs. 1.00 crore to be undertaken in every Village Panchayat area

AWARDS TO BEST PERFORMING PANCHAYATS

The best performing Panchayats are awarded prizes on the Panchayat Raj Divas.

GRANT-IN-AID FOR INFRASTRUCTURE DEVELOPMENT

The Zilla Panchayats and the weaker Village Panchayats are sanctioned grants annually for creation and development of rural infrastructure.

TRAINING AND CAPACITY BUILDING

Regular training and capacity building programmes are conducted for the members and officials of the PRIs under this scheme.

GRANT-IN-AID FOR STAFF SALARIES

All weaker Panchayats and the Zilla Panchayats are released grants annually for payment of salaries to their staff.

MATCHING GRANTS

Inorder to encourage maximum tax collection by Panchayats, matching grants in proportion to the tax collected, is released to the Panchayats annually.

GRANTS FOR MEMBERS' SALARIES

The Zilla Panchayats and all Village Panchayats are released grants annually, for payment of salaries to their members.

RURAL GARBAGE DISPOSAL SCHEME

The Village Panchayats are provided all financial assistance for safe and hygienic disposal of garbage under this scheme.

RAJIV AAWAS YOJANA

Under this scheme assistance is provided for construction or repair of houses to the rural families having an annual income of less than Rs. 1 lakh.

ASSISTANCE TO THE PANCHAYATS FOR DISPOSAL OF PLASTIC GARBAGE

Financial assistance is given to the Village Panchayats for collection of the plastic garbage from the households on door-to-door basis and through collection drives in their areas.

THE DEENDAYAL PANCHAYAT RAJ INFRASTRUCTURE DEVELOPMENT (GOLDEN JUBILEE) SCHEME, 2013

Under the scheme grants released to upgrade infrastructural development works/Projects in rural areas upto Rs. 2.00 crores



Department of Animal Husbandry & Veterinary Services Government of Goa Panaji - Goa

Establishes An Ambitious Plan For Making Goa Self – Sufficient In Milk, Meat And Eggs, also overcomes Unemployment apart from Making Our State Nutritionally Vibrant.

KAMDHENU SUDHARIT SCHEME

Under the Scheme, over 2500 farmers have purchased more than 7800 animals. Upto 90% of subsidy is paid to SC/ST farmers and 75% to Others. The Daily Average Milk collection is 65,000 litres per day.

MILK INCENTIVE SCHEME

40% Composite Subsidy is paid on proceeds of milk poured by farmers to Dairy Societies. Rs.2909.41 lakhs is paid to 7989 milk producers in the State, thus encouraging more farmers to take up Dairy business due to remunerative price for milk.

PASHUPALAN SCHEME

Scheme to rear calf from birth to 27 months. Upto Rs. 52,800/- per calf subsidy is provided for SC/ST Farmers and Rs. 26,400/- for General Farmers.

DAIRY EQUIPMENT

Various Dairy Equipments like Milking Machine, Generator Set, Shed Washer, Chaff Cutter, Milk Cans, Ceiling Fans etc are provided under the Scheme with 75% subsidy, Rs. 1.5 lakh subsidy per farmer.

THE GOA SMALL ANIMAL RESCUE MANAGEMENT SCHEME 2014:

Grant in Aid Scheme has been introduced recently by the Department to facilitate bringing out control and to curb Stray Dog Menace on public roads, beaches and other public places.

THE GOA STRAY CATTLE MANAGEMENT SCHEME 2013 (MODIFIED):

Grant in Aid Scheme introduced by Department through local bodies to NGOs, Gaushalas and Civic & Consumer Forums to curb the Stray Cattle Menace on public roads, beaches and other public places.

SHORT SCHEME FOR MISSION RABIES

The Mission Rabies International has been Provided Grant in Aid to carry out Antirabies Vaccination & ABC Programme in Stray Dogs to step in for elimination of Rabies from Goa and to make Goa State Rabies Free.





GOA STATE HORTICULTURAL CORPORATION LTD. Kullagor, Tonca, Caranzalem - Goa.

(A Govt. Of Goa Undertaking)

AT THE SERVICE OF THE PEOPLE.....

- Serving the people through more than 855 outsourced vegetables outlets supplying most commonly consumed vegetables at controlled prices under Government scheme.
- Operating 3 vegetables Sales Centres namely Panaji, Altinho-Panaji; & Secretariat (Porvorim) and provided facility for payment by Credit/Debit card.
- Providing vegetables and essential commodities at subsidised rates through mobile vans, under the Government scheme to tackle price rise in rural and urban areas.
- Procuring locally produced vegetables and fruits through our Procurement centres in each Taluka and marketing them through our Marketing Infrastructure thus encouraging commercial production of locally produced vegetables and fruits.
- Providing cold storage facilities to the producers at Panaji Municipal Market.
- Making fruits and coconuts available to consumers at very competitive rates at our vegetable outlets as well as solely fruit outlets.
- Altinho sale centre upgraded to Mini Super Market.

Issued by:

Goa State Horticultural Corporation Ltd,

“Kullagor”

Tonca, Caranzalem, Goa.

Ph:- 2461202, 2461204

Fax:- 2461203





**Department of Agriculture
Government of Goa
Krishi Bhavan,
Tonca, Caranzalem, Goa.**

PH. 0832-2465443 FAX - 0832-2465441

E-mail:dir-agri.goa@nic.in



***Department of Agriculture supports your Efforts through
Schemes as –***

- Assistance up to ` 80,000/- per ha. to individual/Self Help Group for creation of infrastructure like fencing, construction of well, etc for cultivation of vegetables.
- 75% subsidy for cultivation of Horticulture Crops as Coconut, Mango, Cashew, Spices, Banana, Pineapple etc,
- 50% assistance for clearing of weeds/bushes and land leveling to take up scientific cultivation for sustainable growth of Agriculture.
- Supply of manure and fertilizers for increasing productivity in cashew and coconut.
- 50-100% Subsidy for Covered Cultivation in Polyhouse, Shadenet House for crops.
- 75-90% Subsidy on purchase of all type of agricultural machinery like tractors, power tillers, weed cutters, sprayers, etc.
- 50- 90% Subsidy for creation of Irrigation infrastructure such as Well, Pump Pipeline, Sprinkler / Drip Irrigation and water storage tank.
- 75- 90% Subsidy for construction of Barbed wire / Wire Mesh/ Stonewall/Rubble wall, Solar power Battery Fencing to protect farmers crops.
- Minimum assured price for coconut raised to `10/- and paddy to `20/- (w.e.f 1st Sept 2016)
- Assistance for mechanical transplanting of paddy @ ` 14000/- per ha. Including seedling.
- 50-75% subsidy for promotion of soil conditioner, micronutrients, vermicompost units and biogas.
- 50% subsidy on cost of organic inputs like organic fertilizer, vermicompost, pressmud, Bio- fertilizers, biopesticide and biocontrol agents to promote organic farming.
- Assistance up to 90% is provided to SC/ ST farmers for purchase of agriculture inputs and machinery.

For further details Contact:

The Zonal Agricultural Officer of your Taluka

