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1. INTRODUCTION

1.1 THE BOARD

The National Oilseeds and Vegetable Oils Development (NOVOD) Board was constituted on 8th March, 1984 under the National Oilseeds and Vegetable Oils Development Board Act, 1983, (No.29 of 1983) as a statutory body for the development of oilseeds and vegetable oils industry under the control of the Union Government.

1.2 FUNCTIONS

The functions of the Board, as laid down in the NOVOD Board Act, 1983, are very comprehensive and cover the entire gamut of oilseeds and vegetable oils industry including production, processing, marketing, technical and financial assistance, collection, procurement and maintenance of buffer stocks for stabilising price situation, development of infrastructural facilities and promotion of oilseeds growers cooperatives and other appropriate agencies for integration of such facilities, collection of related statistics, publication and recommend steps for grade standards.

Providing assistance for the production of quality seeds, supply of inputs and adoption of modern technology for production, processing, schemes for promotion of research & development and setting up appropriate agencies for fulfilling these tasks also form part of the Board's functions.

In the advisory capacity, the Board is expected to recommend measures for integrated policy and programmes of development of oilseeds and vegetable oils industry.

2. COMPOSITION OF THE BOARD AND ITS MANAGING COMMITTEE

2.1 THE BOARD

As provided under sub-section (4) of section 4 of the NOVOD Board Act, 1983, the Union Minister of Agriculture and the Secretary (Agriculture and Cooperation) of the Ministry are its Chairman and Vice-Chairman, respectively. In addition, the Board has 34 members representing the Parliament, the Central Government, the State Governments, autonomous organisations connected with oilseeds and vegetables oil industry, oilseeds growers, trade and industry. During 1995-96, the Board had, besides Chairman and Vice-Chairman, 31 prescribed members on its membership roll. Central Government has also deputed Additional Secretary and Director, TMOP&M and Joint Secretary, TMOP&M from the Department of Agriculture & Cooperation on the Board under the provisions of sub-section 6 of section 4 of the Act. Accordingly list of the members of the Board is given at Annexure-I.

2.2 MANAGING COMMITTEE

Delegation of powers & functions of the Board are vested with the Managing Committee headed by Secretary (Agriculture & Cooperation) as Chairman of the Managing Committee. Out of the prescribed strength of 10 members, only two positions remained vacant during 1995-96. The Board had co-opted Additional Secretary & Director, TMOP&M and Joint Secretary, TMOP&M from the Department of Agriculture & Cooperation on the Committee under the provisions of sub-section 4 of section 8 of the Act. Accordingly a list of the members on the Managing Committee is at Annexure-II.

3. MEETINGS OF THE BOARD AND THE MANAGING COMMITTEE

3.1 THE BOARD

The thirteenth meeting of the Board was held on 13th December, 1995 at Krishi Bhavan, New Delhi under the chairmanship of Dr. Balram Jakhar, the then Union Minister of Agriculture & Chairman of the Board. In this meeting, action taken on the decisions of the previous meetings, achievements of developmental schemes implemented during the year 1994-95 were reviewed and the 11th Annual Report (1994-95) and Annual Accounts for the year 1994-95 were also approved.

The status of programmes for 1995-96 including outcome of the Inter-Ministerial Committee on 'National Approach to Promote Non-Traditional Oilseeds', recommendations of Workshop on 'Strategies for Development of Tree-Borne Oilseeds and Niger in Tribal Areas', promotion of castor hybrid in Andhra Pradesh etc. were discussed. Besides approval for Annual Plan and Budget Estimates for 1996-97 was also accorded.

3.2 THE MANAGING COMMITTEE

Four meetings of the Managing Committee were held during 1995-96 under the chairmanship of Secretary (Agriculture & Cooperation) and Vice-Chairman of the Board on the dates as under:

S.N.	Meeting Number	Date
(i)	21 st	28.04.1995
(ii)	22 nd	25.07.1995
(iii)	23 rd	11.12.1995
(iv)	24 th	04.03.1996

During these meetings the Committee considered the 11th Annual Report (1994-95) and Annual Accounts for the year 1994-95. The programmes for Kharif, 1995, Rabi, 1995-96 and Rabi-Summer 1996 were approved and their implementation along with financial guidelines reviewed during the year 1995-96 by the Committee. Besides the Committee had approved proposals for Kharif, 1996 and continuation of ongoing programmes during 1996-97. NOVOD Board Service Regulations, 1996 were also recommended by the Committee for approval of the Board.

3.3 STAFF POSITION

Staff position as on 31.03.1996 in the NOVOD Board located at Gurgaon (Haryana) is at Annexure-III.

4. DEVELOPMENTAL PROGRAMMES - (1995-96)

NOVOD Board has been allocated an outlay of Rs. 1750 lakh for the VIIIth Plan period to undertake developmental activities. Financial sanctions to the extent of Rs. 426.86 lakh were accorded for various programmes during 1995-96 as per pattern of assistance vide Annexure-IV. Whereas total sum of Rs. 394.92 lakh has been released under developmental programmes including Rs.84.86 lakh unutilised funds duly revalidated by the Deptt. of Agriculture & Cooperation. State and programmewise physical and financial progress for 1995-96 may be seen as per Annexure- V & VI respectively.

NOVOD programmes were largely aimed at organising production programmes for opening newer areas and area expansion in non-traditional areas/seasons through transfer of technology on farmer's

fields. These were also supplemented on selective need basis for seed production and processing as well as on mechanisation at pilot scale. Development of non-traditional oilseeds and need based research support were limited to 6% and 4% of the total releases respectively as compared to 87% for the production oriented programmes (Annexure-VII). Programme implementing organisations were State Departments of Agriculture (12), Soil Conservation (1), Forest (1), SAUs (5), Co-operatives and Oilfeds etc. (5), National Institutions (3) and NGOs (10) as per Appendix-I.

PRODUCTION PROGRAMMES

1. PROMOTION OF OILSEEDS CULTIVATION IN NEW / NON-TRADITIONAL AREAS/SEASONS

These programmes are of innovative nature for opening newer areas for oilseed cultivation and are pre-cursor to oilseed production programme (OPP) of Technology Mission on Oilseed, Pulses & Maize (TMOP&M), Department of Agriculture & Cooperation. Major approaches for these programmes include promotion of improved oilseed production technology through demonstrations on farmers field, promoting high yielding varieties through minikits and to promote more remunerative oilseed based cropping systems/ combinations. Accordingly a sum of Rs 394.92 lakh has been released to promote oilseed crops in new/non-traditional areas during kharif, rabi and summer seasons. Seasonwise outcome of crop production programmes (Annexure-VI & VII) is enumerated hereunder:

1.1 Kharif programme :

The Board has made efforts in promoting soybean, groundnut, castor, sesamum and niger crops during Kharif, 1995 and sanctioned

Rs.91.80 lakh to various programme implementing organisations. Cropwise status is as under: -

*i) **Soybean*** - This programme includes opening of newer areas in Tamenglong hill district of Manipur and under lateritic soil of West Bengal covering Bankura, Birbhum, Burdwan, Midnapur (West) and Purulia districts. Bragg & PK- 416 varieties have given very good yield response of 1100-1500 kg/ha in Manipur. Whereas, varieties PK-416, PK-472 and NRC-2 have given desired yield response in West Bengal. Bragg & Gaurav varieties of soybean have recorded yield of 1700-1800 kg/ha as against the National Average Yield (NAY) of 939 kg/ha in Nagaland. Results are in favour of sustainability of soybean crop in all the districts of Nagaland viz. Kohima, Mon, Mokokchung, Phek, Tuensang, Wokha and Zunhebota. Economically soybean crop has proved more profitable to the farmers (Rs.3850/ha) in comparison to upland paddy (Rs.1850/ha) in Nagaland. However timely availability of seeds of required varieties was the major constraint in non-implementation of programme by MEHPDS in Manipur.

*ii) **White sesamum*** - Cultivation of white sesamum has been encouraged in the NE States due to good potential. Programme has been organised in 4 districts of Arunachal Pradesh viz. Dibang Valley, Changlang, West Siang & Popumpare with good productivity level of 772 kg/ha. Similarly in Nagaland yield of 700 kg/ha with Pb-1 variety has been recorded in 7 districts viz, Kohima, Mokokchung, Phek, wokha, Mon, Tuensang and Zunhebota. The programme has also been implemented in Aurangabad, Dhule, Jalgaon and Nasik districts of Maharashtra with variety T-7 providing an average yield of 455 kg/ha. Success of these interventions can be judged from NAY of 313 kg/ha for sesamum, hence providing significantly higher productivity level. White sesamum has the added advantages of export potential.

*iii) **Castor hybrid*** - Keeping in view the increasing export prospects of castor and success story of hybrid in Gujarat, Board in its 12th meeting directed to formulate a strategy for hybrid castor cultivation for Andhra Pradesh. Accordingly a meeting was convened by NOVOD Board under the Chairmanship of Dr. M.V. Rao, Vice Chancellor, APAU during May 1995, at Hyderabad.

This programme was sanctioned to the Deptt. of Agriculture, Andhra Pradesh for productivity enhancement through use of hybrid. Production technology was demonstrated over an area of 205 ha. with hybrid GCH-4 through demonstration and minikit programmes in Mehboobnagar and Ranga Reddy districts. However the targeted coverage of 660 ha. could not be achieved due to non availability of hybrid seeds.

*iv) **Niger*** - Niger is emerging as an important export commodity in oilseed sector. During 1994-95, 7804 M.T. niger seed was exported with a total value of Rs.12.67 crore through canalizing agencies namely Trifed, NDDDB & Nafed. Therefore, to enhance the export quantum of niger, a proposal of Mahafed was considered for promotion of niger cultivation. Minikits programme of improved varieties viz. NG- 1 and G-5 have been organised over targetted area of 1,000 ha in the districts of Aurangabad, Dhule, Jalgaon and Nasik of Maharashtra with a two fold higher average yield of 650 kg/ha as against the NAY of 298 kg/ha.

*v) **Groundnut*** - To identify newer areas for groundnut cultivation, demonstrations and minikits programme have been organised in Lohit district of Arunachal Pradesh; Aizawl East, Aizawl West, lunglei and Chhimpuitui districts of Mizoram; and Phek, Wokha, Kohima, Tuensang and Zunhebota Distts. of Nagaland. Production technology has been demonstrated over an area of 1,210 ha. against the target of 1,310 ha.

in these states. Good yield response has been recorded in Nagaland i.e. 1,500-2,000 kg/ha with the varieties of JL-24 & TMV-2 as against the NAY of 952 kg/ha. Programme could not be implemented in Manipur due to non-availability of quality seed.

1.2 Rabi Programme :

Board has promoted sunflower, rapeseed & mustard, groundnut & linseed in new/non-traditional areas in NE states viz; Arunachal Pradesh, Mizoram & Nagaland; safflower in Madhya Pradesh and similarly rapeseed & mustard in identified new/non-traditional areas of Maharashtra. Cropwise details are as under: -

i) Sunflower - To open up newer area, sunflower demonstrations were organised over an area of 350 ha in three districts of Arunachal Pradesh viz. Popumpare, West Kameng & Tawang and in five districts of Mizoram viz. Aizawl East, Aizawl West, Chhimpuitui, Kolasib & lunglei with the yield response of 830 kg/ha for morden variety of sunflower. Classified/cluster approach has been advocated for efficient marketing/sustainability of crop. Whereas for productivity improvement and area expansion, public sector hybrids like APSH-11 and BSH-1 have been used in Nagaland in districts viz. Kohima, Mon, Mokokchung, Phek, Tuensang, Wokha & Zunhebota. Good yield response has been recorded with 900 to 1000 kg/ha as against the NAY of 566 kg/ha. The crop is economically profitable with net returns of Rs.4,160/ha.

ii) Safflower - Safflower has proved a better remunerative crop with residual moisture under heavy soil after paddy and soybean. It

has also shown better economic returns as an intercrop with gram during NOVOD interventions in M.P. For sustainability of crop programme was continued with buy-back arrangement of the commercial produce, during 1995-96. However, due to inadequate seed availability and moisture stress conditions the programme could be organised only over an area of 4,222 ha as against the target of 6,000 ha H.Y.V. namely JSF-1.

*iii) **Rapeseed & mustard*** - To encourage double cropping system in mono-culture paddy cultivation in NE States, rapeseed & mustard cultivation was encouraged in NE states viz. Manipur, Mizoram and Nagaland. High yielding varieties like M-27 and RH-30 have shown good performance with the average yield of 850 kg/ha in Nagaland covering 3,530 ha including riverine areas in seven districts viz. Kohima, Mon, Mokokchung, Phek, Wokha, Tuensang and Zunhebota. The crop is economically profitable to the farmers with additional returns of Rs.1,610/ha in Nagaland and Rs.4,200/ha in Tamenglong district of Manipur over an area of 900 ha. Whereas programme was organised over an area of 600 ha in four districts viz. Aizawl East, Aizawl West, Lungli & Chhimpuitui in Mizoram with an average yield of 623 kg/ha. In Maharashtra, Mahafed demonstrated successful mustard cultivation in four identified districts viz; Aurangabad, Dhule, Jalgaon & Nasik with average yield of 1650 kg/ha. indicating scope for sustainability of rapeseed & mustard under rainfed areas.

*iv) **Groundnut*** - To exploit potential of groundnut cultivation in riverine areas and paddy follows in Nagaland, an introductory programme was organised in Kohima and Wokha districts over an area of 600 ha. with buntch type variety JL-24 giving yield response of 1,500 to 2,000 kg/ha as against the NAY of 952 kg/ha.

v) **Linseed** - This programme has been taken for the first time by the Board in Nagaland to open up newer areas. All the seven districts of Nagaland viz. Kohima, Mon, Mokokchung, Phek, Wokha, Tuensang and Zunhebota were covered under this programme. The yield response was very encouraging i.e. 600 to 650 kg/ha, with variety J-23 and Neelam as against the NAY of 310 kg/ha over an area of 1,400 ha. The crop is becoming more popular being non-grazing (as the cattle grazing is a great social problem during winter when cattles are let loose soon after paddy harvest).

1.3 Summer Programmes :

Sunflower & groundnut have proved better remunerative crops during summer season. Hence to explore newer areas, these programmes were taken up in T.N. & U.P. for sunflower and groundnut in Assam.

i) **Sunflower** - Demonstrations and minikits programmes have been organised over a targetted area of 1,740 ha in four non-OPP districts of Tamil Nadu viz. North Arcot , Tiru Vannamalai, Villupuram and Chingai M.G.R. with hybrids Arun & Jwalamukhi. An average yield of 1,248 kg/ha as against the NAY of 566 kg/ha has been recorded. Farmers were paid the price of Rs. 1,175 - 1,200/qtl. However, due to non availability of seed the demonstration programme could be organised over an area of 1,407 ha only against the target of 3,500 ha in U.P. covering 9 non-OPP districts viz. Bahraich, Deoria, Faizabad, Gorakhpur, Haridwar, Jaunpur, Lucknow, Moradabad and Saharanpur with net returns of Rs.5,200/ha.

ii) **Groundnut** - To exploit the potential of groundnut cultivation in riverine areas in Brahmaputra valley under paddy fallows, minikits programme with JL-24 variety has been organised in three non-OPP districts of Assam viz. Darrang, Dhubri & Tinsukia. The yield response

has been very encouraging i.e. 2,000 kg/ha as against the NAY of 952 kg/ha. The crop is more profitable to farmers with economic returns of Rs.18,250/ ha in comparison to Rs.2,650/ha from fallow/minor cereals, which is traditionally grown in these three districts.

2. MECHANISATION

Power drawn farm implements have proved economical for various agricultural operations like seed bed preparation, proper placement of seed and fertilizer at the time of sowing, control of weeds and for harvesting. Under this pilot programme, 5 power drawn seed drills for soybean (Arunachal Pradesh), 73 groundnut power decorticator (Arunachal Pradesh, Maharashtra and Orissa), 478 sunflower power threshers (Andhra Pradesh, Arunachal Pradesh, Karnataka, Maharashtra, Punjab & U.P.) and 4,700 hand gloves to facilitate safflower harvesting (Maharashtra) have been provided.

3. SEED PRODUCTION AND PROCESSING

For sustainability of high productivity of castor through hybrid cultivation in Gujarat and to promote castor hybrid cultivation in Maharashtra, seed production programmes for castor hybrid (GCH-4) have been organised in these states. Gujarat State Seeds Corporation has reported production of 3,301 qtls. in Gujarat, whereas 993 qtls. of certified seed has been produced by Mahafed in Maharashtra.

A groundnut seed processing plant with indigenous technology has been set-up at Chadaka in Orissa by Orissa State Seeds Corporation with the joint financial assistance from the Board and State Govt. on 50 : 50 sharing basis. This would help in augmenting availability of quality groundnut seed within the state.

4. TRAINING & PUBLICITY

Need based assistance was extended for specific training & publicity programmes as per details here under:-

*i) **Nagaland*** - Being non-OPP state with considerable scope for oilseed production, assistance has been provided for organising trainer's training and farmer's training programmes. As such 1,500 farmers and 180 officials of the State Deptt. of Agriculture have been benefited with the production technology of sunflower (a new oilseed crop in Nagaland).

*ii) **Maharashtra*** - In Maharashtra women participation in Agriculture is very popular. Particularly in groundnut women play an important role from seed preparation stage (decortication) upto post harvest operations like stripping, drying and cleaning of pods. Therefore assistance has been extended by the Board to Maharashtra for training of 1,076 women farmers on improved production technology of groundnut.

*iii) **Directorate of Oilseed Research*** - To promote castor hybrid cultivation in A.P., a scientific training and publicity programme was assigned to the Directorate of Oilseed Research (ICAR), Hyderabad through an Expert Group with the following components:-

- a) Preparation of farmers training manual for castor,
- b) Vedio film on production technology of castor hybrid, and
- c) Farmers training.

Accordingly, 49 progressive farmers of Andhra Pradesh have been trained by the Directorate of Oilseed Research and have also been provided with copies of training manual.

DEVELOPMENT OF NON TRADITIONAL OILSEEDS (NTOS)

Apart from commercial oilseeds, NTOs like sal, mahua, mango kernel, phulware, kokum, neem, karanja, ratanjyot and wild apricot etc; are also the natural resources to augment supply of edible/industrial oil and their bye-products for human consumption, animal feed, and for pharmaceutical and industrial purposes. Their estimated potential of 30-35 lakh M.T. can contribute around 6 to 7 lakh M.T. of vegetable oil. NOVOD Board has been entrusted with the responsibility of coordinated/integrated development of NTOs at national level. The Board initiated developmental programmes for NTOs from 1992-93 by undertaking a survey for relevant temperate fruits of Uttarakhand through an NGO known as Himalayan Action Research Centre (HARC) located at Dehradun for identification of new sources of vegetable oils. Subsequently the Board extended financial assistance for collection/ nursery/plantation and publicity & awareness programmes for neem, karanja, ratanjyot, kokum, simarouba and wild apricot etc.

1. The progress achieved under various programmes for development of Tree-Borne Oilseeds (TBOs) is summarised below:-

(a) During 1992-95 amount of Rs.95.57 lakh has been provided for seed collection, raising of nursery and plantation programmes. Seed collection has increased from 4,152 qtl (1992-93) to 19,718 qtl (1994-95) of neem seed, karanja, tumba, pilu in Rajasthan and wild apricot in U.P. One lakh seedlings of kokum and 2.5 lakh seedlings of wild apricot have also been raised in Goa and U.P. respectively. Where as 3.79 lakh seedlings of karanja, ratanjyot and neem have been planted in Rajasthan.

(b) During 1995-96 a sum of Rs.24.38 lakh has been utilised for development of NTOs in the states of Assam, Goa, Maharashtra, Orissa, Rajasthan and U.P. Under this programme 4.42 lakh seedlings of kokum, simarouba, wild apricot and wild walnut have been raised and 3.76 lakh seedlings of kokum, simarouba, neem, karanja and ratanjyot have been planted. Whereas seed collection of neem, mahua, karanja and wild apricot was limited to 700 qtl. in Maharashtra and U.P. One power operated decorticator has been installed at Gopeshwar, Chamoli in U.P. for decortication of hard nuts of wild apricot.

2. Simultaneously the Board have interactions with various Central/State Governments, Public Sector Organisations and Industry to strengthen the system for development of NTOs during national level seminars organised by the Board as under:-

- (a) Research and Development of Oilseeds - February 1993
- (b) Strategies for development of NTOs - July 1994
- (c) Strategies for development of NTOs and niger - August 1995

To implement the recommendations emerged during the above seminars, Department of Agriculture & Co-operation constituted an Inter Ministerial Committee (IMC)- IMC has also met thrice so far and has further given various recommendations/policy decisions for overall development of NTOs at national level.

3. Due to the change in the policies. Board took initiatives to evolve approaches for quality collection of neem seed and mango kernel instead of extending subsidies on collection of seeds of TBOs. However ongoing programmes on TBOs were continued during 1995-96 as per Annexure-VI.

RESEARCH PROGRAMME

1. DEVELOPMENT OF 'O-O' VARIETIES OF RAPESEED & MUSTARD

Rapeseed & mustard oil contains nutritionally useful fatty acids like oleic acid along with other essential fatty acids like linoleic & linolenic acids. However, Indian mustard oil contains erucic acid, which is nutritionally undesired. Deoiled cake from this oilseed, is also a source of protein & minerals, used for animal feeds. Higher amounts of glucosinolates in Indian mustard meal is also a major constraint in the export. Attempts to introduce exotic '0-0' varieties have failed repeatedly, due to late maturity and poor seed set under Indian agroclimatic conditions. Therefore, in order to make Indian rapeseed & mustard globally acceptable, the project was sponsored to Tata Energy Research Institute (TERI) for development of '0-0' varieties of rapeseed & mustard with an outlay of Rs.74.51 lakhs for a period of 5 years i.e. 1992 - 97.

The progress of this project is reviewed annually by an expert group. Review of progress for 1995-96 revealed that low erucic acid lines in Brassica napus (Gobhi Sarson) combining earliness and tolerance to shattering and early maturing yellow seeded lines with low erucic acid in B juncea (mustard) have been developed. The double low plants of B napus and B. juncea have also been selected. The homogenous quality lines both of B juncea and B napus on the basis of agronomical data, will be incorporated in All India Coordinated Research Project on Rapeseed & Mustard for initial varietal trial during rabi 1996-97. A sum of Rs.8.24 lakhs was provided as per the sanctioned budget to TERI during 1995-96.

2. INTRODUCTION OF SOYBEAN AS KHARIF CROP IN MUSTARD-MONO crop area

Soybean has emerged as a major kharif crop in M.P. during last one and half decades. However, soybean could not occupy its place in Gwalior Division, where mustard is still grown as mono crop during rabi season. The initial research trials conducted by JNKVV campus Gwalior had shown the promise for introduction of soybean in this mono cropped area as proceeding crop to mustard. Therefore, NOVOD Board

sponsored the programme for introduction of soybean as kharif crop in mustard-mono crop area in Gwalior Division of MP with total financial outlay of Rs.4.75 lakhs to JNKVV, Gwalior for a period of 5 years i.e. 1993-98.

The programme envisages identification of early and HYV of soybean, and their other factors like nutritional aspects, fertilizer requirements, spacing, date of sowing, weed management, etc. for maximization of yield and to provide better returns. Results have shown better returns with soybean-mustard cropping sequence as compared to the fallow mustard.

Progress achieved during 1995-96 for different crop sequence layouts is summarised hereunder:-

(Grain yield in kg/ha. & return in rupees)

S.No.	TREATMENT		SOYBEAN		MUSTARD		SOYBEAN + MUSTARD		
	KHARIF	RABI	YIELD	RETURN	YIELD	RETURN	YIELD	GROSS	NETT
1.	JS 87-59	Pusa bold	2535	24,843	2204	24,464	4739	49,307	38,507
2.	PK 564	"	2517	24,666	2296	25,485	4813	50,151	39,351
3.	JS 87-28	"	2443	23,941	2031	22,341	4474	46,282	35,482
4.	JS 81-1498	"	2406	23,578	2556	28,372	4962	51,950	41,150
5.	JS 71-05	"	2276	22,304	2463	27,339	4739	49,643	38,843
6.	Monetta	"	2221	21,766	2611	28,982	4832	50,748	39,948
7.	PK 416	"	2221	21,766	2093	23,232	4314	44,998	34,198
8.	Pb 1	"	2137	20,942	1889	20,968	4026	41,918	31,110
9.	PK 472	"	2137	20,942	1982	16,450	3619	37,392	26,592
10.	Sagar Sel.	"	2114	20,717	2259	25,074	4373	45,791	34,990
11.	NRC 2	"	1925	18,865	2074	23,021	3999	41,886	31,086
12.	NRC 1	"	1851	18,140	1982	22,000	3833	40,140	29,340
13.	JS 220	"	1813	17,767	2500	27,750	4313	45,517	34,717
14.	FALLOW	"	-	-	2093	23,232	2093	23,232	17,432

Cost of cultivation per ha.
Rates per Quintals

Soybean-Rs.5000,
Soybean-Rs.980,

Mustard - Rs.5800
Mustard - Rs. 1110

Sanctioned amount of Rs.85,000/- for 1995-96 has been provided to JNKVV, Gwalior.

3. PROMOTION OF SAFFLOWER UNDER RICE BASED CROPPING SYSTEM

Traditional up land oilseeds and pulses frequently suffer from drought situations in Chhatisgarh region of M.P., where as the clay soils of the region and paddy fallows could provide favourable scope for safflower cultivation. Hence to demonstrate the usefulness of paddy-safflower cropping sequence, a proposal of IGKVV Raipur was approved with an outlay of Rs. 4.59 lakh for a period of five years viz. 1994-99 for development of location specific production technology. Field trials conducted during rabi 1994-95 have shown yield levels of 1,310 kg/ha and 1,278 kg/ha with varieties A-1, and JSF-1 of safflower respectively. The spineless variety JSF-7 has yielded only 906 kg/ha and hybrids like DSH-128 & DSH-129 gave 1,812 and 1,791 kg/ha yields respectively, Lower oil contents of 25-27% have been recorded in case of hybrids as against 30% in JSF-1. More, results for 1995-96 are under evaluation, Therefore the Board has released only Rs. 0.49 lakh against the approved outlay of Rs. 0.84 lakh for 1995-96 to IGKVV.

4. ON FARM RESEARCH DEMONSTRATION OF SUNFLOWER & SOYBEAN

The Programme envisaging transfer of technology (TOT) through NDUA&T, Faizabad for adaptive trials on soybean and sunflower in Faizabad and Sultanpur districts in U.P. was approved with an outlay of Rs. 11.46 lakh for a period of five years viz. 1993-98. TOT was organised over an area of 8.15 ha. and 56 ha. during 1993-94 and 1994-95 respectively. In view of good yield response from soybean (1,314 kg/ ha) and sunflower (1,193 kg/ha), the programme was continued during 1995-96. A sum of Rs. 1.05 lakh has been released to NDUA&T during the year.

5. DEVELOPMENT OF GRAFTED ELITES OF KOKUM SEEDLINGS

Kokum (*Garcinia indica*) traditionally belongs to Konkan region of Maharashtra and Goa. It serves for flavouring substitute to tamarind and is also used as a fish preservative. Ripe rind is commonly used for

preparing 'Solkadi' substitute for butter milk. Kokum syrup (Amrit kokum) is an excellent sharbat. The kernel contains 33-44% fat which is a cocoa-butter substitute.

Substantial genetic variability for economic traits like variation in yield (10 to 100 kg/plant), maturity (March-July), number of nuts per fruit and size of nuts have revealed scope for improvements in yield of such a useful TBO. Therefore Konkan Krishi Vidhyapeeth, Dapoli (Maharashtra) was assigned the programme for selection of parent tree with high yield and oil content, early maturity, bold nuts etc. to develop elite seedlings (25,000 nos.) through grafting techniques during a period of two years (1995-1997). The Vidhyapeeth has initiated action for the stipulated studies. During the fruiting season of kokum (March-May), the promising trees have been identified for scion wood and for preparation of elite grafts of kokum 4,000 seedlings have been prepared to raise seedlings as rootstocks. Rs. 0.86 lakh has been released to KKV during 1995-96 against the approved outlay of Rs. 1.72 lakh.

6. ENZYMIC DEGUMMING OF VEGETABLE OILS & FATS

The conventional methods of degumming of vegetable oil & fat like water degumming, acid degumming etc. do not give satisfactory results when the oil has large quantities of non-hydratable phospholipids. Hence the need for exploration of new processing technology. The Indian Institute of Chemical Technology (IICT), Hyderabad approached the Board for financial assistance to conduct these studies. An outlay of Rs. 17.85 lakh was approved for 3 years (1994-97) to IICT, Hyderabad to conduct these studies.

During 1995-96, studies have been conducted with two important commercial oils namely soybean oil and Rice Bran Oil (RBO). When crude soybean oil, having phosphorous contents of 402 ppm was treated with phospholipase A2 (NOVO) and lipase G (Amano) enzymes, the phosphorous contents were drastically reduced to 28 ppm. Results have been obtained with crude rice bran oil having phosphorous

contents of 455 ppm and wax contents of 41,750 ppm. When water degummed RBO is treated with lipase enzyme, the processed RBO contained only 10 ppm phosphorous & 700 ppm wax respectively. Thus laboratory feasibility of enzymic degumming of vegetable oil has been established under this project. However, the availability of specific enzymes either from sources abroad or indigenous is a constraint in the commercialisation of the process. Therefore, it has been decided that further work under this project may be deferred till the commercial availability of the required enzymes.

7. ALTERNATE TECHNOLOGY FOR THE REFINING OF VEGETABLE OILS & FATS

To develop alternate milder and less energy intensive technology for refining of commercially important vegetable oils IICT, Hyderabad approached NOVOD Board for financial assistance. An outlay of Rs. 9.58 lakh was approved for this programme for two years (1994-96). Under the project simultaneous removal of wax and phosphorous from rice bran oil (RBO) has been achieved. RBO contains about 6% waxes and 455 ppm phosphorous. After treatment with equal volume of boiling water, the waxes and phosphorous content come down to 0.05 -0.07% and 45-55 ppm respectively. The advantage of the process is that no chilling of oil is necessary to separate the waxes and thus saves energy. A further advantage of the process that conditioning agent such as phosphoric acid, citric acid, acetic anhydride are eliminated thereby improving the economy of the process. Based on these results a patent application has been made by IICT for simultaneous removal of wax and phosphorous from RBO. The Institute has been suggested for tie up with rice bran processing industries for furtherance of technology on pilot scale.

8. PERFORMANCE EVALUATION OF COMMERCIALY AVAILABLE OIL FILTERS FOR SUNFLOWER

This scheme was approved with a total outlay of Rs. 8.85 lakh for three years (1992-95) to UAS, Bangalore to evaluate a suitable filter for sunflower oil suiting to small and minimum capacity oil expellers for cottage industries in rural areas. The programme could commence from 15.1.93 and accordingly the project was extended upto 31.3.96. An integrated process technology through performance evaluation of commercially available oil filters such as canvas, polypropylene, cotton and nylon has been developed under the project. UAS has also developed a chilling bin for cooling down the temperature of the oil before filtration. During these studies best results were obtained with canvas filter cloth. Chilled oil at 13°C, filtered through canvas media provided the oil quality meeting BIS standards.

9. DEVELOPMENT OF FIBRE SCUTCHING MACHINE FOR LINSEED

Development of such a machine is essential for promotion of dual purpose varieties of linseed (both for oil & fibre) to enhance the economic returns from neglected crop of linseed. HPKVV Palampur was entrusted with development of a prototype fibre scutching machine with an outlay of Rs. 1.40 lakhs for a period of 2 years i.e. 1994-96. The University has developed the desired prototype. The fabricated machine has been tested and demonstrated over 7 locations to about 400 farmers. Besides 21 farmers have been trained on operation and handling of the machine in Kangra district having potential for linseed cultivation.

Salient features of the machine and technology of scutching are as under :-

i) Cost of machine	Rs. 80,000/-
ii) Capacity (fibre extraction)	7 kg/hr.
iii) Efficiency of extraction	87%
iv) Power consumption	4-5 units/day
v) Manpower	2 persons
vi) Retting of stalk (28-30°C)	5-10 days
vii) Net profit	Rs. 180/per hour

HPKVV has been requested to work out the cost of the machine on commercial basis to promote the concept among linseed farmers.

5. FINANCES

The Board was provided total funds of Rs.480.00 lakh as grants-in-aid from the Department of Agriculture & Cooperation. Besides an amount of Rs.5.75 lakh was available as opening balance, Rs.86.44 lakh were received from States as unspent amount and Rs. 12.34 lakh as recovery of advances and miscellaneous receipts. Accordingly total availability of funds with the Board was Rs.584.53 lakh for 1995-96. An amount of Rs.394.92 lakh including Re.45.80 lakh for the previous year's programmes was utilised towards various developmental programmes (Appendix-II). Rs. 58.59 lakh was the expenditure on establishment. Rs.131.021akh remained closing balance as on 31.3.1996 basically due to receipt of grants-in-aid at terminal point of the financial year.

6. OTHER CONTRIBUTIONS

1. WORKSHOP ON “STRATEGIES FOR DEVELOPMENT OF TREE-BORNE OILSEEDS & NIGER IN TRIBAL AREAS”

Bihar, M.P. and Orissa hold largest potential of tree-borne oilseeds having largest tribal areas as well. To harness the potential of tree-borne oilseeds (TBOs) in these States as well as to the adjoining States of A.P. and West Bengal, a Regional Workshop was organised by the Board at Bhubaneswar from 28-30th August, 1995.

Central Government Organisations viz. NOVOD, TMOP, Ministries of Environment & Forest, Welfare, TRIFED, CSIR, ICAR, OTRI, State Departments of Agriculture, Forest & Tribal Welfare of Andhra Pradesh, Bihar, Madhya Pradesh & Orissa and Forest Development Corporations, Tribal Development Corporations, concerned Co-operatives from the States of Andhra Pradesh, Madhya Pradesh, Orissa and West Bengal participated in the workshop. Priorities for TBOs were identified and the state Govt. were requested for urgent action on following aspects:-

(i) Assessment of collection potential of tree borne oilseeds such as sal, mahua, mango kernel, neem, kusum, karanja, jatropha, pilu, undi and simarouba.

(ii) Identification of agencies for collection of seeds from primary tribal collectors.

(iii) Announcement of procurement price of these oilseeds atleast two months in advance of the collection season.

(iv) Dissemination of information through mass media, for scientific collection, drying, decortication and storage.

(v) Arrangement for marketing at the important tribal markets at incentive price.

(vi) Establishment of adequate inter-action between the collection agencies and the user agencies so that the tribal people get the benefit of value addition by appropriate processing.

2. UTILISATION OF CAKE FROM NTOs AS CATTLEFED

To promote the concept of utilisation of cakes from non-traditional oilseeds like sal, mahua, mango kernel etc. in cattlefeed, a meeting was organised by the Board on 22nd January, 1996 at Gurgaon under the

Chairmanship of Director, Indian Veterinary Research Institute, Izatnagar. ICAR, Oil Industry and Trade participated in the deliberations.

The expert opinion favoured for action on following two major aspects:-

(i) Use of protein rich deoiled meal should be domesticated rather than encouraging their export to other countries as supply of proteinous feed is extremely low in cattle feed in India.

(ii) Scientific information on optimal utilisation of deoiled cake, availability, their utilisation and available technology needs to be disseminated to the industry/trade and other user for ultimate benefit of the farmers.

3. QUALITY COLLECTION OF TREE BORNE OILSEEDS

A meeting primarily convened on 16.2.96 in Krishi Bhawan, New Delhi to review the ongoing quantum/system for incentive/subsidy meant for primary seed collectors for mango kernel and neem seed decided in favour of support for critical infrastructure like decorticators and dryers to enhance quality status of such collection. Accordingly a pilot programme envisaging supply of decorticators and driers free of cost to tribal co-operatives, and with some earmarked financial incentive to other co-operatives, NGOs and private entrepreneurs has been finalised by NOVOD Board.

4. UNDP VIS-A-VIS OILSEED DEVELOPMENT

A programme document was signed on 16.2.96 between United Nations Development Programme (UNDP) and Govt. of India for the execution of UNDP assisted projects for the development of oilseeds including oil palm & pulses. The special emphasis on the programme is to transfer the technology from lab to the land and thereby enable the farmers to increase their production & productivity and in turn income. The objective of the project is to benefit the farmers in increasing their skills, improve the nutritive value of oilseeds & pulses by cultivating non-toxic varieties of khesari,(Pulse) and adopting post harvest management to reduce toxicity of groundnut oil meals and thereby to increase export value. NOVOD Board has been entrusted with the monitoring and evaluation of this programme.

5. PARTICIPATION IN THE INTERNATIONAL CONFERENCE ON SOYBEAN, BANGKOK

Dr. J.P. Singh, Secretary, NOVOD Board participated in the 'Second International Soybean Processing and Utilisation Conference' held at Bangkok from 8-13th January 1996. The participation report provides useful information to bring sustainability in soybean production through linkages with newer processing technologies.

6. PROMOTION OF RAJ BHASHA (HINDI)

The Board had organised four quarterly review meetings and took steps for further promotion/implementation of Raj Bhasha (Hindi) in day to day functioning of the Board.

7. PUBLICATIONS

(i) News Letter: A half yearly 'News letter' on the progress of developmental activities of Board is published for the benefit of programme implementing agencies, and Central/State Govt. Organisations and Industry.

(ii) Awareness on Tree-Borne oilseeds (TBOs): Seeds of more than 100 species of plants have been identified as a source of vegetable oil. Due to lack of awareness on such important TBOs their potential remained untapped. Board had made an attempt to publish a pamphlet on important TBOs containing relevant information in brief. This pamphlet has also been published in Hindi for creating awareness among the farmers specially in tribal belt of the country.

(iii) The Printing of publications: Board has established facilities by using computerised processing technology on DTP & printing on offset machine for various publications.

8. APPOINTMENT

Dr. J.P. Singh, Deputy Director (Oilseeds), NOVOD Board, has been appointed as Secretary of the Board w.e.f. 25.1.96 by the Deptt. of Agriculture & Co-operation, Govt. of India.

LIST OF MEMBERS ON THE BOARD AS ON 31.3.96

Relevant Section of NOVOD Board Act, 1983 & the Category	Sl. No.	Member	Remarks
(1)	(2)	(3)	(4)
Sec. 4(4) (a)	1	Minister of Agriculture, Government of India.	Chairman Ex-officio
I. Officials			
(a) Rep. Central Government :			
Sec. 4(4) (b)	2	Secretary, Agriculture & Cooperation.	Vice-Chairman Ex- officio
Sec. 4(4) (c)	3	Agriculture Commissioner, Deptt. of Agriculture & Co-operation	Member Ex-officio

(1)	(2)	(3)	(4)
Sec. 4(4) (d)	4	Director General, Indian Council of Agricultural Research.	Member Ex-officio
Sec. 4(4) (f)	5	Adviser/ Principal Adviser, Planning Commission.	Member
Sec. 4(4) (g)	6	Deputy Secretary (C X 3) Deptt. of Revenue, Ministry of Finance.	Member
Sec. 4(4) (g)	7	Joint Secretary, EP (Agriculture) Division, Ministry of Commerce.	Member
Sec. 4(4) (g)	8	Economic Adviser, Ministry of Civil Supplies, Consumer Affairs and Public Distribution System.	Member
Sec. 4(4) (h)	9	Executive Director, National Oilseeds & Veg. Oils Development Board.	Member Ex-officio
Sec. 4(4) (i)	10	Financial Adviser, Deptt. of Agriculture & Cooperation.	Member Ex-officio
Sec. 4 (6)	11	Additional Secretary & Director, TMOP&M (DAC)	Deputed by the Central Government
Sec. 4 (6)	12	Joint Secretary, TMOP&M (DAC)	-do-

(1)	(2)	(3)	(4)
(b) REP. STATE GOVERNMENTS (11) :			
Sec. 4(4) (j)	13	Director of Agriculture, Govt. of Andhra Pradesh, Hyderabad.	Member
Sec. 4(4) (j)	14	Additional Chief Secretary, (Agriculture), Govt. of Gujarat, Gandhinagar.	Member
Sec. 4(4) (j)	15	Director of Agriculture , Govt. of Haryana, Chandigarh.	Member
Sec. 4(4) (j)	16	Agriculture Production Commissioner, Govt. of Madhya Pradesh, Bhopal.	Member
Sec. 4(4) (j)	17	Joint Director, Agriculture, Govt. of Maharashtra, Pune.	Member
Sec. 4(4) (j)	18	Vacant (Karnataka)	Member
Sec. 4(4) (j)	19	Commissioner-cum-Secretary, Agriculture Department, Govt. of Orissa, Bhubaneshware.	Member

(1)	(2)	(3)	(4)
Sec. 4(4) (j)	20	Joint Director (Cash Crops) Department of Agriculture, Govt. of Punjab Chandigarh.	Member
Sec. 4(4) (j)	21	Joint Director, Agriculture (Oilseeds & Demonstration), Govt. of Rajasthan, Jaipur.	Member
Sec. 4(4) (j)	22	Secretary, Agric. (T.N.)	Member
Sec. 4(4) (j)	23	Additional Agriculture Director (Oilseeds), Govt. of Uttar Pradesh, Lucknow.	Member

**(c) REP. AUTONOMOUS ORGS. CONNECTED WITH
OILSEEDS & VEGETABLE OILS INDUSTRIES (5) :**

Sec. 4(4) (k)	24	Chief General Manager, State Trading Corporation of India.	Member
Sec. 4(4) (k)	25	Managing Director, National Cooperative Development Corporation.	Member
Sec. 4(4) (k)	26	Regional Director, National Dairy Development Board, New Delhi.	Member

(1)	(2)	(3)	(4)
Sec.4(4) (k)	27	Managing Director National Agricultural Cooperative Marketing Federation of India Ltd., New Delhi.	Member
Sec.4(4) (k)	28	Chief General Manager, Production Credit Department, National Bank for Agriculture & Rural Development.	Member

II. Non Officials

(a) MEMBERS OF PARLIAMENT (3):

Sec.4(4) (e)	29	Vacant (Rep. of House of People)	Member
Sec.4(4) (e)	30	Vacant (Rep. of House of People)	Member
Sec.4(4) (e)	31	Sh. Balbir Singh, Member of Parliament, (Rajya Sabha) 33, Lodi Estate, New Delhi.	Member

(b) REP. OILSEEDS GROWERS (3) :

Sec.4(4) (l)	32	Chaudhary Ram Singh Siag, Vill. & P.O.:- DHINGAWALI, Tehsil : Abohar, Distt.: Ferozpur, Punjab.	Member
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(1)	(2)	(3)	(4)
Sec.4(4) (l)	33	Sh. Moiuddin Khan Gaur, Mohalla Reshamganj, Ward No.-2, Sikar, Rajasthan.	Member
Sec.4(4) (l)	34	Sh. Suresh Kumar Bansal, Street No.-1, Nai Abadi, Abohar, Tehsil : Abohar, Distt.: Ferozpur, Punjab	Member
(c) REP. EXPORTERS OF OILSEEDS, VEGETABLE OILS (1) ;			
Sec.4(4) (m)	35	President, Solvent Extractors Association, Bombay.	Member
(d) REP. VEGETABLE OILS INDUSTRY (1) :			
Sec.4(4) (n)	36	Sh. Jamboo Bhandari, Alpine Industries, 10-11, Jeshwant Niwas Road, Indore - 452 003.	Member

(1)	(2)	(3)	(4)
(e) Other Interests (2) :			
Sec.4(4) (o) 37		Chairman, Soyabean Processors Association of India, Indore (M.P.)	Member
Sec.4(4) (o) 38		Sh. Sanjeev Nagpal, NASA Engineering Pvt. Ltd., Post Box No.-1, Painchwali Rd., Fazilka, (Punjab).	Member

ANNEXURE - II**LIST OF MEMBERS ON THE MANAGING COMMITTEE AS ON 31.3.96**

Sl. No.	Relevant Section of NOVOD Board Act, 1983 & the Category	Member	Remarks
(1)	(2)	(3)	(4)
I. Officials			
(A) DAC :			
1.	Sec. 8 (2) (a)	Secretary (A&C) & Vice-Chairman, NOVOD Board.	Chairman
2.	Sec. 8 (2) (b)	Agriculture commissioner, Deptt. of Agri. & Coop.	Member
3.	Sec. 8 (2) (c)	Director General, Indian Council of Agricultural Research.	Member
4.	Sec. 8 (2) (e)	Executive Director Member NOVOD Board.	Member

(1)	(2)	(3)	(4)
5.	Sec. 8(2)(f)	Financial Advisor Deptt. of Agri, & Coop.	Member
(B) CENTRAL GOVT. REP. :			
6.	Sec. 8(2)(d)	Economic Advisor, M/0 Civil Supplies Consumer Affairs and Public Distribution System.	Member
II. STATE GOVT. REP. :			
7.	Sec. 8(2)(g)	Director of Agriculture, Govt. of Haryana, Chandigarh.	Member
III. AUTONOMOUS ORG. REP. :			
8.	Sec. 8(2)(h)	Managing Director, National Agricultural Co-operative Marketing Federation of India Ltd. New Delhi.	Member
IV. OILSEEDS GROWERS' REP. :			
9.	Sec. 8(2)(i)	Vacant	Member
V. INDUSTRY & OTHERS INTERESTS REP. :			
10.	Sec. 8(2)(i)	Vacant	Member

(1)	(2)	(3)	(4)
VI. Co-opted members :			
11.	Sec. 8(4)	Sh.J.N.L. Srivastava, Additional Secretary & Director TMOP&M	
12.	Sec. 8(4)	Sh. K.Arya Joint Secretary TMOP&M	

ANNEXURE - III

STAFF POSITION
(As ON 31st. MARCH, 1996)

S.No.	POST	SANCTIONED STRENGTH	FILLED	VACANT
1.	Executive Director	1	1	-
2.	Director (Production)	1	-	1*
3.	Secretary	1	1	-
4.	Deputy Director (s)	4**	-	2
5.	Asstt. Secretary	1	1	-
6.	Asstt. Director(s)	4	4	-
7.	Finance & Accounts Officer	1	-	1
8.	Private Secretary	1	-	1
9.	Office Assistant	1	1	-
10.	Accountant	1	1	-
11.	Steno Gr. 'C'	1	1	-
12.	Technical Asstt.	2	-	2
13.	Upper Division Clerk(s)	2	1	1
14.	Maintenance Supervisor	1	-	1
15.	Steno Gr. 'D'	2	2	.
16.	L.D.C.-cum-Typist (s)	7	6	1
17.	Staff Car Driver	2	2	-
18.	Despatch Rider	1	1	-
19.	Driver	1	1	-
20.	Electrician-cum-Generator operator	1	-	1
21.	Peon-cum-Chowkidar	3	2	1
22.	Sweeper-cum-Farash	1	-	1
23.	Mali	1	-	1
24.	Peon	1	-	1
25.	Chowkidar	5	.	5
26.	Beldar-Cum-Hostel Attendant	1	-	1
Total=		48	25	21

* Revival under consideration, ** 2 Posts kept in abeyance.

ANNEXURE – IV**PATTERN OF ASSISTANCE FOR 1995-96****1. RATES OF ASSISTANCE ON DEMONSTRATIONS AND MINIKIT PROGRAMMES****(Only for Non-OPP Districts)**

Crop *	<u>Demonstration</u>	Qty. (Kg.)	<u>Minikit</u>	
	50% cost of input with ceiling/ha. (Rs.)		Area (ha.)	Max/kit (Rs.)
(1)	(2)	(3)	(4)	(5)
1. Safflower	550	4.0	0.2	72
2. Sunflower	600	1.0	0.2	90 (for hybrid)
3. Sesamum	550	0.5	0.1	16
4. Castor (Hybrid)	700	1.0	0.1	40
5. Rapeseed/Mustard	600	1.0	0.2	20
6. Groundnut	1750	40.0	0.4	900
7. Soybean	1300	7.5	0.1	135
8. Linseed	600	-	-	-
9. Niger	-	0.5	0.1	8

* In addition assistance for field days @ Rs. 10,000/- per distt. and training as per norms of Dte. Ext., GOI, is also extended.

2. SUPPORT ON AGRICULTURAL IMPLEMENTS

ON PILOT BASIS:

S. NO.	Implements	Assistance per implement
1.	Power decorticators	50% cost with a ceiling of Rs.5000/-
2.	Seed drill	-do-
3.	Harvestor/Reaper	25% cost with a ceiling of Rs.12,000/-
4.	Threshers	25% cost with a ceiling of Rs.5,000/-
5.	Hand gloves	Rs. 25/pair

Note: Implements at S. Nos. 1 to 4 are power operated.

3. PATTERN OF ASSISTANCE TO PROMOTE NON-TRADITIONAL OILSEEDS (NTOs):

	<u>Component/NTO</u>	<u>Assistance</u>
(a)	<u>Nursery</u> (per seedling)	
	i) Wild apricot	Rs. 3.00
	ii) Kokum	Rs. 1.25
	iii) Simarouba	Rs. 1.50
	iv) Wild walnut	Rs. 3.00
(b)	<u>Plantation</u> (per plant)	
	i) Kokum	Rs. 2.00
	ii) Ratanjyot, Karanja & Neem	Rs. 2.00
	iii) Simarouba	Rs. 5.50

(c) **Seed Collection** (per kg.) Rs. 2.00

Neem, Karanja, Mahua, & Wild
Apricot

(b) **maintenance** Neem based

ANNEXURE – V**STATE WISE PHYSICAL & FINANCIAL PROGRESS OF 1995-96
PROGRAMME****Physical: Detailed in abbreviation****Financial: Rs. in lakh**

S.N.	State	Organi- -sation	Sea- -son	Prog- -ram- -me	Crop	Comp -onent	Physical		Financial					
							T	A	Sanc- -tion	Rele- -ase				
1.	Ar. Pradesh	SDA	K	PP	groundnut	D	100	100	1.75	1.75				
						Mech.								
						P.Dct	2	2	0.10	0.10				
						Sd	5	5	0.25	0.25				
				PP	W.sesamum	D	250	250	1.38	1.38				
						M	1,000	1,000	0.16	0.16				
										FD	2	2	0.20	0.20
				RP	PP	Sunflower	M	300	300	0.27	0.27			
							D	200	200	1.20	1.20			
	Mech.		P.Th	5	5	0.25	0.25							
							Total =		5.56	5.56				
2.	Assam	SDA	K	NTOs	Neem	PI	60,000	60,000	1.20	1.20				
						S	13,000	13,000	29.25	29.25				
				PP	Groundnut	M			Total =		30.45	30.45		
3.	A.P.	DOR	K	Tr. & Pub.	Castor	V.F.	1	1	0.50	0.50				
						FT	50	49	0.27	0.17				
						TM	1	1	0.50	0.50				
		SDA	K	PP	Castor (HYV)	D	600	187	4.20	2.10				
						M	600	185	0.24	0.12				

S.N.	State	Organi- -sation	Sea- -son	Pro- -gra- -mme	Crop	Com- -ponent	Physical		Financial	
							T	A	Sanc- -tion	Rele- -ase
		SDA	K	Mech	Soyabean	Sd	10	PA	0.50	0.25
			RP		Sunflower	P.Th	80	PA	4.00	2.00
							Total =		10.21	5.65
4.	Goa	SDF	K	NTOs	Kokum	Sdl	1,20,000	60,000	1.50	0.75
						PI	1,00,000	40,000	1.70	1.13
							Total =		9.90	5.40
5.	Gujarat	GSSC	K	Seed-	Castor	SP	3,300	3,301	09.90	4.95
	PYR	VORDI		Prod.	Soyabean	D	-	-	-	0.45
							Total =		9.90	5.40
6.	karnataka	SDA	RP	Mech	Sunflower	P.Th	150	34	7.50	3.75
7.	Mahar- -ashtra	MAH- -AFED	K	Mech Seed Prod. NTOs	G/nut	P.Dct	50	50	2.50	2.50
					Karanja	Sc	100	100	0.20	0.20
					Mahua	Sc	100	100	0.20	0.20
					Neem	Sc	100	100	0.20	0.20
						PI	10,000	10,000	0.20	0.20
			PP		Niger	M	10,000	10,000	0.80	0.80
					W.Sesamum	D	600	600	3.30	3.30
		SDA			Groundnut	WFT	1,020	1,076*	0.51	0.51
				Mech.		P.Dct	25	20	1.25	1.00
		MAHA -FED	RP	PP	R & M	M	10,000	9,910	2.00	1.98
						D	600	591	3.60	3.54
					Sunflower	P.Th.	50	50	2.50	2.50

S.n.	State	Organi- sation	Sea- son	Prog- ram- me	Crop	Comp- onent	<u>Physical</u>		<u>Financial</u>	
							T	A	Sanc- tion	Rele- ase
		SDA	RP	PP	Safflower	Hg	10,000	4,700	2.50	1.18
					Sunflower	p.Th	320	140	16.00	8.42
							Total =		38.76	29.51
8.	Manipur	PDA	K	PP	Soyabean	D	100	100	1.30	1.30
			RP		R & M	M	2,000	2,000	0.40	0.40
						D	500	500	3.00	3.00
		MEH-	K	PP	Groundnut	D	25	NI	0.44	0.22**
		PDS			Soyabean	D	250	NI	3.25	1.63**
							Total =		8.39	3.05
9.	Mizoram	SDA	K	PP	Groundnut	D	225	200	3.50	0.94
				RP	R & M	D	600	600	3.60	0.83
					Sunflower	M	500	500	0.45	0.45
						D	150	150	0.90	0.83
							Total =		8.45	3.05
10.	M.P.	SDA	RP	PP	Safflower	D	5,000	3,214	27.50	16.38
			R		PYR		-	-	-	23.95
		IGKVV	R	PYR			-	-	-	0.11
							Total =		31.10	42.24

S.n.	State	Organi- sation	Sea- son	Pro- gra- mme	Crop	Comp- o- nent	Physical		Financial						
							T	A	Sanc- tion	Rele- ase					
11.	Nagaland	SDA	K	PP	Groundnut	M	900	900	8.10	8.10					
						D	600	600	10.50	9.00					
						FD	7	7	0.70	0.70					
					Soyabean	D	2,800	2,800	36.40	36.40					
						FD	7	7	0.70	0.70					
						W.Sesamum	D	1,600	1,600	8.80	8.80				
					RP					Groundnut	M	3,000	3,000	0.48	0.45
											FD	4	4	0.40	0.40
											D	600	600	10.50	10.50
										Linseed	D	1,400	1,400	8.40	8.40
											R & M	D	2,100	2,100	12.60
										Sunflower	M	7,000	7,150*	1.40	1.40
											M	22,500	23,000*	20.25	20.25
											D	2,000	2,050*	12.00	12.00
											FD	4	4	0.40	0.40
											Tr. & Pub.	TT	90	180*	2.46
					Tr. & Pub.	FT	1,050	1500*	3.51	3.51					
							Total =		137.60	136.07					
12.	Delhi	IVPA	R	PYR	Sunflower	D	-	-	-	0.27					
13.	Orissa	OO(W) OSSC SCD	K	Mech Proc. NTOs	Simarouba (Nr/Pl in lakh)	Nr PI	25	1	1.25	0.00					
							1	1	22.50	22.50					
							4.40	1.82	6.12	3.06					
							4.00	1.66	21.90	10.95					
							Total =		51.77	36.51					
14.	Punjab	SDA	RP	Mech.	Sunflower	P.Th	200	194	10.00	10.00					

S.N.	State	Organi- sation	Sea- son	Pro- gram- me	Crop	Comp- onent	Physical		Financial					
							T	A	Sanc- tion	Rele- ase				
15.	Rajasthan	SDA	K	NTOs	Karanja	PI	0.50	0.30	1.00	-				
					Ratanjyot (PI in lakh)	PI	1.00	0.70	2.00	-				
				PYR		-	-	-	2.00					
				Total =			10.00	8.80						
16.	T.N.	SAC- RED	S	PP	Sunflower	D	1,200	1,200	7.20	6.00				
						FD	3	3	0.12	0.12				
						M	2,700	2,700	2.43	2.43				
						P.Th	5	5	0.25	0.25				
						Total =			10.00	8.80				
17.	U.P.	UYRDCK	K	NTOs	Wild Apricot	Sc	100	PA	0.20	0.10				
						Nr	50,000	50,000	1.50	0.75				
						PRA- YAS DGSM	50,000	50,000	1.50	1.50				
						HARC	50,000	50,000	1.50	1.50				
					PRA- YAS HARC	NTO	CPK	-	PI	0.50	0.10			
							AWC	-	PI	0.10	0.10			
					DGSM		Wild Apricot	Sc	400	400	0.80	0.80		
								Det	1	1	0.14	0.14		
					SDA	RPS	Mech.	Sunflower	Wild Walnut	Nr	50,000	50,000	1.50	1.50
									PP	P.Th	60	PA	3.00	--
					DGSM	K		PYR	D	3,500	1,407	21.00	18.00	
										FD	12	12	1.20	1.20
					HARC			PYR		-	-	-	1.50	
											-	-	-	1.32
Total =							32.94	28.51						

S.N.	State	Organi- sation	Sea- son	Progr- amme	Crop	Comp- onent	Physical		financial	
							T	A	Sanc- tion	Release
18.	W.B.	SDA	K	PP	Soyabean	D	400	522*	5.20	5.20
				PYR			-	-	-	13.62
							Total =		5.20	18.82
19.	Research Institutes	i) TERI			Dev. of "0-0" varieties of rapeseed & mustard			PI	8.24	8.12
		ii) JNKVV			Introduction of soyabean in mustard mono crop area			PI	0.85	0.83
		iii)IGKVV			Promotion of safflower under rice based cropping system			PI	0.84	0.42
		iv)NDUA &T			On farm research trials of sunflower & soybean			PI	2.11	1.05
		v) KKV			Development of grafted elites (Kokum)			PI	1.72	0.86
		vi) IICT			PYR - Enzymic degummmg of vegetable oils and fats			PI	2.70	2.03
		vii) IICT			Alternate technology for refining of oils and fats			PI	5.38	4.03
		viii)IICT			PYR- -do-					2.12
		ix) OTRI			PYR Mango dryers & destoner					0.05
		x) ICAR			PYR Micro Irrigation Method (groundnut & castor)					0.41
							Total =		21.84	19.92
GRAND TOTAL =									425.86	394.92

* **Financial assistance has been extended only to the extent of approved physical targets.**

** **Refund has been sought.**

ANNEXURE – VI**PROGRAMME WISE PHYSICAL PROGRESS OF 1995-96**

S.N.	Crop	State	Organisation	<u>Physical:</u> <u>Financial:</u> Comp- onent	Detailed in abbreviation Rs. in lakh				
					<u>Physical</u>	<u>financial</u>			
					T	A	Sanc- tion	Rel- ease	
1. PRODUCTION PROGRAMME									
(a) <i><u>KHARIF PROGRAMME</u></i>									
i)	Soyabean	1	Manipur	PDA	D	100	100	1.30	1.30
				MEHPDS	D	250	NI	3.25	1.63**
		2	nagaland	SDA	D	2,800	2,800	36.40	36.40
					FD	7	7	0.70	0.70
		3	W.B.	SDA	D	400	522*	5.20	5.20
Sub-Total =								46.85	45.23
ii)	White Sesamum	1	Ar. Pradesh	SDA	D	250	250	1.38	1.38
					FD	2	2	0.20	0.20
					M	1,000	1,000	0.16	0.16
		2	maharashtra	MAHAFED	D	600	600	3.30	3.30
		3	Nagaland	SDA	D	1,600	1,600	8.80	8.80
					FD	4	4	0.40	0.40
					M	3,000	3,000	0.48	0.45
Sub-Total =								14.72	14.69
iii)	Castor		A.P.	SDA	D	600	187	4.20	2.10
					M	600	185	0.24	0.12
Sub-Total =								4.44	2.22

S.N.	Crop	State	Organisation	Comp- onent	Physical		Financial		
					T	A	Sanc- tion	release	
iv)	Niger	Maharashtra	MAHAFED	M	10,000	10,000	0.80	0.80	
V)	Groundnut	1 Ar. Pradesh		D	100	100	1.75	1.75	
		2 Manipur	MEHPDS	D	25	NI	0.44	0.22**	
		3 Mizoram	SDA	D	225	200	3.50	0.94	
		4 Nagaland	SDA	D	600	600	10.50	9.00	
				FD	7	7	0.70	0.70	
				M	900	900	8.10	8.10	
					Sub-Total =			24.99	20.71
Total (Kharif programme) =							91.80	83.65	
(b) RABI PROGRAMME									
i)	Sunflower	1 Ar. Pradesh	SDA	D	200	200	1.20	1.20	
				M	300	300	0.27	0.27	
		2 Mizoram	SDA	D	150	150	0.90	0.83	
				M	500	500	0.45	0.45	
		3 Nagaland	SDA	D	2,000	2,050*	12.00	12.00	
				FD	4	4	0.40	0.40	
				M	22,500	23,000*	20.25	20.25	
					Sub-Total =			35.47	35.40
ii)		Safflower	M.P.	SDA	D	5,000	3,214	27.50	16.38
	M				5,000	5,040*	3.60	1.80	
	Sub-Total =					31.10	18.18		
iii)	Rapeseed & Mustard	1 Maharashtra	MAHAFED	D	600	591	3.60	3.54	
				M	10,000	9,910	2.00	1.98	
		2 Manipur	PDA	D	500	500	3.00	3.00	
				M	2,000	2,000	0.40	0.40	
		3 Mizoram	SDA	D	600	600	3.60	0.83	

S.N	Crop	State	Organisation	Component	Physical		Financial		
					T	A	Sanction	release	
		4	Nagaland	SDA	D	2,100	2,100	12.60	12.60
					M	7,000	7,150*	1.40	1.40
					Sub-Total =		26.60	23.75	
iv)	Groundnut	Nagaland	SDA	D	600	600	10.50	10.50	
v)	Linseed		SDA	D	1,400	1,400	8.40	8.40	
Total (Rabi programme) =							112.07	96.23	
(C) <u>SUMMER PROGRAMME</u>									
i)	Sunflower	1	T.N.	SACRED	D	1,200	1,200	7.20	6.00
					FD	3	3	0.12	0.12
					M	2,700	2,700	2.43	2.43
		2	U.P.	SDA	D	3,500	1,407	21.00	18.00
					FD	12	12	1.20	1.20
					Sub-Total =		31.95	27.75	
ii)	Groundnut	Assam	SDA	M	13,000	13,000	29.25	29.25	
Total (Summer programme)							61.20	57.00	
Total (Kharif + Rabi + Summer programme) =							265.07	236.88	

S.N.	Crop & Season	State	Organisation	Comp- onent	Physical		Financial		
					T	A	Sanc- tiona	Rele- ase	
2. MECHANISATION									
i)	soyabean	K 1	A.P.	SDA	Sd	10	PA	0.50	0.25
		K 2	Ar. Pradesh	SDA		5	5	0.25	0.25
Sub-Total =						15	5	0.75	0.50
ii)	Groundnut	K 1	Ar. Pradesh	SDA	P.Dct	2	2	0.10	0.10
		K 2	Maharashtra	SDA		25	20	1.25	1.00
		K	MAHAFED			50	50	2.50	2.50
		K 3	Orissa	OO(W)		25	1	1.25	0.00
Sub-Total =						102	73	5.10	3.60
in)	Sunflower	R 1	A.P.	SDA	P.Th	80	PA	4.00	2.00
		R 2	Ar. Pradesh	SDA		5	5	0.25	0.25
		R 3	Karnataka	SDA		150	34	7.50	3.75
		R 4	Maharashtra	MAHAFED		50	50	2.50	2.50
		R		SDA		320	140	16.00	8.42
		R 5	Punjab	SDA		200	194	10.00	10.00
		R 6	U.P.	SDA		60	PA	3.00	-
		S 7	T.N.	SACRED		5	5	0.25	0.25
Sub-Total =						870	478	43.50	27.17
iv)	Safflower	R	Maharashtra	SDA	Hg	10,000	4700	2.50	1.18
Total 2-i to 2-iv						51.85	32.45		

S.N.	Crop & Season	State	Organisation	Comp- onent	Physical		Financial		
					T	A	Sanc- tion	release	
3. SEED PRODUCTION & PROCESSING									
i)	Castor	K 1	Gujarat	GSSC	Seed Prod.	3,300	3,301	9.90	4.95
		2	Maha- rashtra	MAHAFED		1,000	993	3.00	2.98
Sub-Total =					4,400	4,294	12.60	7.93	
ii)	Groundnut	K	Orissa	OSSC	Seed – Proce- ssing	1	1	22.50	22.50
Total 3-i to 3-ii =								35.40	30.43
4. TRAINING & PUBLICITY									
i)	Sunflower	RP	Nagaland	SDA	FT	1,050	1,500*	3.51	3.51
					TT	90	180*	2.46	2.46
Sub-Total =							5.97	5.97	
ii)	Groundnut	K	Maharashtra	SDA	WFT	1,020	1,076	0.51	0.51
iii)	Castor	K	A.P.	DOR	FT	50	49	0.27	0.17
					VF	1	1	0.50	0.50
					TM	1	1	0.50	0.50
Sub-Total =							1.27	1.17	
Total 4.i to 4-iii =								7.75	7.65

S.N. NTOs	State	Organisation	Component	Physical		financial		
				T	A	Sanction	release	
5. NON-TRADITIONAL OILSEEDS (NTOs)								
i)	Wild Apricot	U.P.	PRAYAS	AWC			0.10	0.10
			HARC	CPK			0.50	0.10
			DGSM	Dct.	1	1	0.14	0.14
ii)	Kokum	Goa	SDF	Nr.	1,00,000	60,000	1.60	0.75
iii)	Simarouba	Orissa	SCD		4,40,000	1,82,200	6-12	3.06
iv)	Wild Walnut	U.P.	DGSM		50,000	50,000	L&0	1.50
v)	Wild Apricot		UYRDC		50,000	50,000	1.60	0.75
			PRAYAS		50,000	50,000	1.50	1.50
			DGSM		50,000	50,000	1.50	1.50
Sub-Total =					7,60,000	4,42,000	13.62	9.06
1)	Neem	Assam	SDA	PI	60,000	60,000	1.20	1.20
		Maharashtra	MAHAFED		10,000	10,000	0.20	0.20
ii)	Kokum	Goa	SDF		1,00,000	40,000	1.70	1.13
iii)	Simarouba	Orissa	SCD		4,00,000	1,65,600	21.90	10.95
iv)	Karanja	Rajasthan	SDA		50,000	30,000	1.00	-
v)	Ratanjyot				1,00,000	70,000	2.00	-
Sub-Total =					7,20,000	3,75,600	28.00	13.48
i)	Neem	Maharashtra	MAHAFED	SC	100	100	0.20	0.20
ii)	Mahua				100	100	0.20	0.20
iii)	Karanja				100	100	0.20	0.20
iv)	Wild Apricot	U.P.	HARC		400	400	0.80	0.80
			UYRDC		100	PA	0.20	0.10
Sub-Total =					800	700	1.60	1.50
Total =							43.96	24.38

S.N.	Programme	Organisation	<u>financial</u>	
			Sanction	release
			(Rs. in lakh)	
6. RESEARCH PROGRAMME				
i)	Dev. Of "O-O" varieties of repeseed & mustard	TERI	8.24	8.12
ii)	Introduction of soyabean in mustard mono crop area	JNKVV	0.85	0.83
iii)	Promotion of safflower under rice based cropping system	IGKVV	0.84	0.42
iv)	On farm research trials of sunflower and soyabean	NDUA&T	2.11	1.05
v)	Development of grafted elites (Kokum)	KKV	1.72	0.86
vi)	Enzymic degumming of vegetable oils and fats	IICT	2.70	2.03
vii)	Alternate technology for refining of oils and fats	IICT	5.38	4.03
Total 6.i to 6.vii =			21.84	17.34

7. RELEASE AGAINST PREVIOUS YEAR PROGRAMMES

S.N.	State	Organisation	Sanction	Release (Rs. in lakh)
1.	A.P.	IICT		2.12
2.	GUJARAT	VORDI		0.45
3.	M.P.	IGKVV		0.11
		SDA		23.95

S.N.	State	Organisation	Sanction	Release (Rs. in lakh)
1.	A.P.	IICT		2.12
4.	Delhi	IVPA		0.27
5.	Rajasthan	SDA		2.00
6.	Uttar Pradesh	HARC		1.32
		DGSM		1.50
7.	West Bengal	SDA		13.62
8.		ICAR		0.41
9.		OTRI		0.05
Total (7) =				45.80
Grand total			425.86	394.92

* Financial assistance has been extended only to the extent of approved physical targets.

** Refund has been sought.

ABBREVIATIONS

A	=	Achievement
AWC	=	Awareness campaign
CPK	=	Chetna prasar karyakram
D	=	Demonstration area (ha)
DOR	=	Directorate of Oilseeds Research
DGSM	=	Dasholi Gram Swarajya Mandal
FD	=	Field Days
FT	=	Farmers' Training
GSSC	=	Gujarat State Seeds Corporation
HARC	=	Himalyan Action Research Centre
Hg	=	Hand gloves (Nos)
HYV	=	High yielding Varieties
ICAR	=	Indian Council of Agricultural Research
IGKVV	=	Indira Gandhi Krishi Vishwa Vidyalaya
IICT	=	Indian Institute of Chemical Technology
Inst.	=	Installation
IVPA	=	Indian Vanaspati Producers' Association
JNKVV	=	Jawahar Lal Nehru Krishi Vishwa vidhyalaya
K	=	Kharif Programme
KKV	=	Konkan Krishi Vidyapeeth, Dapoli
M	=	Minikit (Nos)
MEHPDS	=	Manipur Eastern Hill Peoples Development Society
MIS	=	Micro Irrigation System
Mech.	=	Mechanisation
NTOs	=	Non-Traditional Oilseeds
NDUA&T	=	Narendra Dev University of Agriculture & Technology
Nr	=	Nursery (Nos)
OO(W)	=	Orissa Oilseeds Regional Co-operative Growers Union Ltd. (Western)
“O-O”	=	Zero Erucic and Zero Glucosinolate
OSSC	=	Orissa State Seeds Corporation
OTRI	=	Oil Technological Research Institute
PA	=	Progress Awaited
PDA	=	People' Development Agency
P.Dct	=	Power decorticator (Nos)
PRAYAS	=	Society for Participatory Research and Action to Yield Appropriate Solution
PL	=	Plantation (No)

PP	=	Production programme
Proc.	=	Processing
P.th.	=	Power thresher (Nos)
PYR	=	Previous Year Release
R	=	Release (Rs. in lakh)
R & M	=	Rapeseed & Mustard
RP	=	Rabi Programme
S	=	Summer Programme
SACRED	=	Society for Agricultural Rural and Environmental Development
Sc	=	Seed collection (Qtl)
SCD	=	Soil Conservation Department
Sd	=	Seed drill (Nos)
SDA	=	State Deptt. of Agriculture
SDF	=	State Deptt. of Forest
Sdl	=	Seedlings
S.Prod.	=	Seed Production (Qtls)
S.Proc.	=	Seed Processing
Surv.	=	Survey
T	=	target
TERI	=	Tata Energy Research Institute
TM	=	Training Mannual
Tr & Pub	=	Training & Publicity
TT	=	Trainers' Training
UYRDC	=	Uttranchal Youth Rural Development Centre
VF	=	Video film
VORDI	=	VMA Oilseed Research Development Institute
WFT	=	Women Farmer's Training

ANNEXURE – VII**PROGRAMME WISE FINANCIAL
TARGETS AND ACHIEVEMENTS, 1995-96****(Rs. in lakh)**

S.N.	Programme & Crop	<u>Kharif</u>		<u>Rabi</u>		<u>Summer</u>		<u>total</u>	
		Sanction	Release	Sanction	Release	Sanction	Release	Sanction	release
I. Production Programme									
1	Soyabean	46.85	45.23	-	-	-	-	46.85	45.23
2	W.Sesamum	14.72	14.69	-	-	-	-	14.72	14.69
3	Castor	4.44	2.22	-	-	-	-	4.44	2.22
4	Niger	0.80	0.80	-	-	-	-	0.80	0.80
5	G.nut	24.99	20.71	10.50	10.50	29.25	29.25	64.74	60.46
6	Sunflower	-	-	35.47	35.40	31.95	27.75	67.67	63.40
7	Safflower	-	-	31.10	18.18	-	-	31.10	18.18
8	Rapeseed & mustard	-	-	26.60	23.75	-	-	26.60	23.75
9	Linseed	-	-	8.40	8.40	-	-	8.40	8.40
Total =		91.80	83.65	112.07	96.23	61.20	57.00	265.07	236.88
II. Mechanisation		5.85	4.10	45.75	22.82	0.25	0.25	51.85	32.45
III. Seed Production & Processing		35.40	30.43	-	-	-	-	35.40	32.45
IV. Training & Publicity		1.78	1.68	5.97	5.97	-	-	7.75	7.65
V. Non-Traditional Oilseeds (NTOs)		-	-	-	-	-	-	43.96	24.38*
VI. Research		-	-	-	-	-	-	21.84	17.34*
VII. Release against previous year		-	48.80	-	-	-	-	-	45.80
Grand total =		134.83	165.66	163.79	130.30	61.45	57.25	425.86	394.92

* Annual Programmes

RECEIPTS		AMOUNT (Rs.)	PAYMENTS		AMOUNT(Rs.)
4.	Interest of Loans	20,966.00			
5.	Sundry payments recoverable				
6.	Sale of vehicles	1,17,091.00	iv.	Cash in Hand	
			a)	Head quarters	5,127.78
7.	Income from farms/ Demonstration centres		b)	Regional Offices	-
				 1,31,02,510.25
8.	Miscellaneous Receipts				
i)	Earnest money Deposits	2000.00			
ii)	Other Receipts	18,013.00			
iii)	Conveyance Deductions	17,680.00			
iv)	Rent Received	40,320.00			
v)	Interest on Deposit	1,58,079.00			
vi)	Telephone deposit	8,000.00			
vii)	Deposit for global inf. Retrival plant.	5,000.00			
viii)	Unspent Balances against previous year schemes	86,44,326.00			
				
		88,93,418.05			
		5,84,53,353.75			5,84,53,353.75

Sd/-
(M.P. GUPTA)
ASST. SECRETARY

Sd/-
DR. (J.P. SINGH)
SECRETARY

Sd/-
DR. (R.L. RAJAK)
EXECUTIVE DIRECTOR

GENERAL PROVIDENT FUND FOR THE YEAR ENDING 31ST MARCH, 1996

RECEIPTS		AMOUNT (Rs.)	PAYMENTS		AMOUNT(Rs.)
To Opening Balance			General Provident		
i.	Industrial Development Bank of India, Deep discounts Bonds.	20,000	Fund advance		2,49,950
ii.	Fixed Deposit with C.B.I., Gurgaon	10,000	Part Final withdrawl		--
iii.	National Saving Certificate	1,63,000	Final Settlement		320
iv.	C.B.I., Gurgaon	31,457	Interest granted to members		29,077
		2,24,457	Establishment Charges		--
			Misc. expenses		--
			Suspense (Imprest)		--
			Payment recoverable		--
Subscription from members		1,38,045	Closing Balance		
Recovery of advances		90,117	i.	I.D.B.I., Deep discount Bonds	20,000
Interest on investments		351	ii.	F.D. with C.B.I., Gurgaon	10,000
Interest recoverable		58,790	iii.	National Savings Certificates	1,63,000
			iv.	C.B.I., Gurgaon	9,756
				 2,02,756
			Excess of accrued interest		
			On investment over interest granted to subscribers		29,655
	 5,11,758		 5,11,758
	
			Analysis of closing Balance		
			Subscription A/c		2,02,756
			Suspense receipt refundable		--
			Excess of interest receipts over payment		--
			Payments		--
			Less		--
			Suspense payment recoverable		--
			Interest accrued & credited but not received		58,790
Sd/- (M.P. GUPTA) ASSTT. SECRETARY			Sd/- DR. (J.P. SINGH) SECRETARY		
			Sd/- DR. (R.L. RAJAK) EXECUTIVE DIRECTOR		

DETAILS OF OFFICE EXPENSES, OTHER CHARGES AND LOANS**FOR THE YEAR ENDING 31ST MARCH, 1996**

S.No.	PARTICULARS	AMOUNT (Rs.)
I.	<u>OFFICE EXPENSES</u>	
1.	Maintenance of Office Equipments	2,35,631.00
2.	General Maintenance	4,170.00
3.	Maintenance of Motor Vehicles	1,82,222.00
4.	Maintenance of Building	1,46,890.00
5.	Medical Expenses	99,715.00
6.	Membership Fee & Subscription	5,180.00
7.	Conveyance	32,853.00
8.	Audit Fee	-
9.	Magazines & Periodicals	10,386.00
10.	Bank charges	10,753.00
11.	Stationery	2,27,147.70
12.	Research & Development	1,513.00
13.	Hospitality & Entertainment	28,052.50
14.	Horticulture Expenditure	6,898.00
15.	Tuition fees	1,500.00
16.	Insurance	28,117.00
17.	Liveries & Uniforms	5,788.00
18.	POL	4,56,113.00
19.	Postage	14,798.00
20.	Printing	1,33,957.00
21.	Maintenance of photocopy	29,072.00
22.	Publicity & Advertisement	1,03,859.00
23.	Telephone Bills	2,35,989.00
24.	Transportation	20.00
25.	Training & Recreation	600.00
26.	Meetings & Seminars	1,04,303.00
27.	Washing, charges	3,545.00
		21,09,072.20

S.No.	PARTICULARS	AMOUNT (Rs.)
II. <u>OTHER CHARGES</u>		
1.	Security Deposit Refunded	6,700.00
2.	Telephone Deposit	5,433.00
3.	Legal Expenses	500.00
4.	Outstanding expenses	1,98,529.00
		2,11,162.00
III. <u>LOANS</u>		
1.	Festival Advance	4,200
2.	Scooter Advance	13,000.00
3.	Imprest	14,444.00
4.	TA/DA Advance	4,280.00
5.	Advances to parties :	
	i) Network Ltd.	45,895.00
		81,819.00

Sd/-
(M.P. GUPTA)
ASSTT. SECRETARY

Sd/-
DR. (J.P. SINGH)
SECRETARY

Sd/-
DR. (R.L. RAJAK)
EXECUTIVE DIRECTOR

INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDING 31ST MARCH 1996

Figure for previous year	Head of expenditure	Schedule	Figure for current year	Figure for previous year	Head of income	Schedule	Figure for current year
	I. Administration:						
	a) <u>Head Office</u>						
	Salaries		16,06,093.50	1.	Grants received from Govt. of India		4,78,08,220.70
	Allowances/Honorarium		1,07,814.00				
	Wages		1,88,659.00	2.	Receipts from publication		-
	Travel Expenses		3,11,176.00				
	Office Expenses	II	20,95,287.00	3.	a) Sale of Vehicles		1,17,091.00
	Rent, Rates & Taxes		1,15,177.00		b) Sale of Scrap etc.		18,013.00
	Other charges		4,045.00	4.	Miscellaneous Receipts	I	88,68,405.05
	Pension		23,807.00	5.	Interest on Loans		20,966.00
	II. Development Schemes :						
	Grants to State Government Grants to others		2,91,21,000.00				
	Others		71,95,572.00				
	III. Improvement of Marketing Facilities		-				
	IV. Research		20,03,000.00				
	V. Extension Activities :						
	a) Publicity		1,35,000.00				
	b) Others (training)		10,37,000.00				
	VI. Insurance		28,117.00				
	VII. Machinery & Equipment		--				
	VIII. Material & Supply		--				
	IX. Insurance		--				
	Excess of Income over expenditure		1,24,60,948.00				
			5,64,32,695.00				5,64,32,695.00

Sd/-
(M.P. GUPTA)
ASST. SECRETARY

Sd/-
DR. (J.P. SINGH)
SECRETARY

Sd/-
DR. (R.L. RAJAK)
EXECUTIVE DIRECTOR

SCHEDULE -I**MISCELLANEOUS RECEIPTS**

PARTICULARS	As on 31.3.96	
i) Rent Received	48,320.00	
ii) Interest from Bank	1,58,079.00	
iii) Conveyance deductions	17,680.00	
iv) Unspent Balance out of Releases made during previous years scheme	86,44,326.05	
	88,68,405.05	
I. SALARY		
i) Officers Salary	7,80,773.00	
ii) Staff Salary	8,25,320.00	
	16,06,093.00	
II. OTHER CHARGES		
i) Legal Expenses	500.00	
ii) Washing Charges	3,545.00	
	4,045.00	
Sd/- (M.P. GUPTA) ASSTT. SECRETARY	Sd/- (J.P. SINGH) SECRETARY	Sd/- DR. (R.L. RAJAK) EXECUTIVE DIRECTOR

SCHEDULE – II**OFFICE EXPENSES**

PARTICULARS	As on 31.3.96
1. Maintenance of Office Equipment	2,36,606.00
2. General Maintenance	4,170.00
3. Maintenance of Motor Vehicles	1,82,222.00
4. Maintenance of Building	1,46,890.00
5. Medical Expenses	99,715.00
6. Membership Fee & Subscription	5,180.00
7. Conveyance	33,826.00
8. Audit Fees	15,164.00
9. Magazines & Periodicals	11,151.00
10. Bank charges a/c	10,753.00
11. Stationery a/c	2,27,147.00
12. Research & development	1,513.00
13. Hospitality & Entertainment	28,052.00
14. Horticulture Expenses	6,898.00
15. Liveries & Uniforms	5,788.00
16. POL	4,56,113.00
17. Postage	14,798.00
18. Printing	1,33,957.00
19. Photocopier maintenance	29,072.00
20. Publicity & Advertisement	1,03,859.00
21. Tuition fee	1,500.00
22. Telephone Bills	2,35,989.00
23. Transportation	20.00
24. Training & Recreation	600.00
25. Meeting & Seminar	1,43,03.00
	<hr/>
	20,95,287.20
	<hr/>

Sd/-
(M.P. GUPTA)
ASSTT. SECRETARY

- Sd/.
DR. (J.P.SINGH)
SECRETARY

Sd/-
DR. (R.L. RAJAK)
EXECUTIVE DIRECTOR

BALANCE SHEET AS ON 31.3.96

Liabilities	Schedule	Figure for current year	Assests	Schedule	Figure for current year
1	2	3	4	5	6
<u>Loan From Central Govt.</u>		-	Closing Balance		-
Staff Provident fund and interest		2,60,688.00	Permanent advance		-
Provision for Pension A/c		2,89,949.00	Head Office		-
Outstanding Expenses	IV	1,84,972.50	Regional Offices		-
Earnest Money deposit refundable		30,400.00	Other advances		-
Security deposit refundable		-	Head Office		-
			Regional Offices		-
Excess of income over Expenditure as per last Balance Sheet			Cash in hand		
	14,29,259.70		Head Office		5,127.78
			Regional Office		-
Less transferred towards value of previous year assets			Cash at Bank		
	7,25,703.00		Head Office		1,30,97,382.47
			Regional Office		-
Add Excess of income over expenditure during current year			Outstanding Receipts		
	1,24,60,948.05		Private Trunk Call Charges		-
	1,31,64,504.75	Interest on Loans Receivable		-
			Other Receipts		8,000.00
Capital Fund	V	17671036.85	Pre-paid Expenditure		
			Telephone Rent		-
			Building Rent		-
			Other items		-
			Loans		-
			Advances :		
			Conveyance Advance		34,105.00
			Festival Advance		1,700.00
			Flood Advance		-
			House Building Advance		-
			Advance in Gratuity		-

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S.N.	PARTICULARS	RATE OF DEPRE- CIATION	COST (Rs.)		DEPRECIATION (Rs.)				NET BLOCK (Rs.)		
			AS ON 1/4/95	ADDITIONS/ DEDUCTIONS	AS ON 31/3/96	UPTO 31/3/96	FOR THE YEAR UPTO 31/3/96		AS ON 31/3/96	AS AT 31/3/95	
1.	Land	-	25,01,042.40	-	25,01,042.40	-	-	-	25,01,042.40	25,01,042.40	
2.	building	10%	1,98,52,656.00	-	1,98,52,656.00	65,07,583	1334507.30	78,42,090.30	1,20,10,565.70	1,33,45,073.00	
3.	Furniture & Furnishing	10%	15,10,910.25	(-) 963.99	15,84,158.26	5,24,608	103117.40	6,27,725.40	9,56,432.86	9,86,302.80	
4.	Office Equipments	25%	24,80,512.80	(-) 601.01	8,10,709.30	32,90,621.09	14,81,287	440512.79	19,21,799.79	13,68,821.30	9,98,225.80
5.	Vehicles	20%	11,68,145.17	(-) 16,508.38	2,13,332.00	13,64,968.79	6,66,477	97031.95	7,63,508.95	6,01,659.84	5,01,668.17
				(-) 1,171.00							
6.	Books	10%	1,93,073.00	55,862.00	2,47,764.00	42,530	18414.25	60,944.25	1,86,819.75	1,50,543.00	
TOTAL :			2,77,06,339.62	11,34,870.92	2,88,41,210.54	92,22,48	1993583.69	1,12,16,068.69	1,76,25,141.85	1,84,83,854.62	

SCHEDULE – IV

OUTSTANDING EXPENSES AS ON 31.3.96

S.No.	Particulars	Amount (Rs.)
1.	Officers Salary March, 1996	68,484.00
2.	Staff Salary March, 1996	69,569.50
3.	Staff OTA	9,278.00
4.	R.R.T	3,859.00
5.	Wages for March, 1996	15,000.00
6.	Conveyance	973.00
7.	Magazines and Periodicals	765.00
8.	Maintenance of Office Equipment	975.00
9.	T.A./D.A.	905.00
10.	Audit fee	15,164.00
TOTAL :		1,84,972.50

SCHEDULE – VI

DETAILS OF OTHER ADVANCES

(1995-96)

Particulars	Amount (Rs.)
I. Sundry Parties A/c.	
i. M/s Net work Ltd. N.-Delhi	45,895.00
ii. M/s Oxford Book & Stationers	100.00
2. Imprest A/c	17,944.00
3. advance to HARC	1,01,000.00
	<hr/>
	1,64,939.00
	<hr/>

APPENDIX - I

PROGRAMME IMPLEMENTING ORGANISATIONS

(1995-96)

1. STATE DEPARTMENTS (14)

(a) Agriculture (12)

Andhra Pradesh, Arunachal Pradesh, Assam, Karnataka, Madhya Pradesh, Maharashtra, Mizoram, Nagaland, Punjab, Rajasthan, Uttar Pradesh and West Bengal.

(b) Soil Conservation (1)

Orissa

(c) Forest (1)

Goa

2. STATE AGRICULTURAL UNIVERSITIES (SAUs) (6)

HPKV (Palampur), IGKW (Raipur), JNKW (Jabalpur), KKV (Dapoli), NDUAT (Faizabad), UAS (Bangalore).

3. CO-OPERATIVES/OILFEDS ETC. (5)

Assam Seeds Corporation, Gujarat State Seeds Corporation, Orissa State Seeds Corporation, Maharashtra Oilseeds Growers' Cooperative Federation, Orissa Regional Co-operative Oilseeds Growers' Union Ltd. (Western).

4. INSTITUTES (3)

IICT, DOR, OTRI.

5. NON-GOVT. ORGANISATIONS (NGOs) (10)

DGSM, HARC, IVPA, TERI, VMA-VORDI, UYRDC, PRAYAS, PDA, MEPHDS, SACRED.

APPENDIX - II**RELEASE DURING 1995-96 AGAINST THE EXPENDITURE ON
PROGRAMMES IMPLEMENTED IN THE YEAR 1994-95**

S.N.	State	Organisation	Amount (Rs. in lakh)
1.	A.P.	IICT	2.12
2.	Gujarat	VORDI	0.46
3.	M.P.	IGKVV	0.11
		SDA	23.95
4.	Delhi	IVPA	0.27
5.	Rajasthan	SDA	2.00
6.	Uttar Pradesh	HARC	1.32
		DGSM	1.50
7.	West Bengal	SDA	13.62
8.		ICAR	0.41
9.		OTRI	0.05
	Total		45.80