

*REPORT ON
VISIT TO IMPHAL, MANIPUR DURING 20-22
JANUARY, 2015*



*Department of Agriculture & Cooperation
Krishi Bhavan
New Delhi*

Report on visit of Dr. Jose C. Samuel, Chief Consultant (MIDH) to Imphal, Manipur during 20-22 January, 2015 to review MIDH & VIUC

The visit was primarily made to:
 Review the progress under HMNEH component of MIDH,
 Review progress under VIUC
 Update web posting of HMNEH progress.

A. Horticulture Mission for North East & Himalayan States (HMNEH)

During 2014-15, an outlay of Rs. 50.00 crore has been earmarked for Manipur under HMNEH. Against this a sum of Rs. 24.17 crore was released to the State Government during June, 2014. Summary details of funds released and progress achieved till December, 2014 are given below:

Details of Target and progress achieved under HMNEH in Manipur

Rs. in lakh

S. No.	Activity	Unit	Total Outlay		Release		Progress	
			Phy Target	Fin. Outlay	Phy Target	Fin. Outlay	Phy Ach	Fin. Ach.
1	RESEARCH & DEVELOPMENT	No.	1	100.00				
2	Plantation Infrastructure and Development	No.	7	340.00	0.00	0.00		
3	Establishment of new gardens / Area Expansion+Mushrooms	Ha.	2419	786.13	2411.00	722.13	2421.00	724.00
4	Maintenance 1 & 2 Year	Ha.	4536	532.10	4536.00	532.10	4274.00	530.22
5	Rejuvenation/ replanting	Ha.	900	180.00	900.00	180.00	900.00	180.00
6	Promotion of IPM/INM	Ha.	10005	189.00	1554.00	18.65	1554.00	18.65
7	Adoption of Organic Farming.	Ha.		84.40		33.00		33.00
8	FLD+ PFDc+GAP	No.						
9	Post Harvest Management	No.	46	292.00	0.00	0.00		
10	Markets	No.	30	241.50	0.00	0.00		
11	Creation of Water resources	No.	64	583.00	64.00	583.00	64.00	583.00
12	Protected cultivation	Ha.	18	847.75	6.11	217.05	6.11	217.05
13	Horticulture	No.	25	25.00	0.00	0.00		

	Mechanization							
14	Beekeeping	No.	8801	148.00	0.00	0.00		
15	Human Resource Development (HRD)	No.	3273	72.16	1050.00	10.40	1050.00	10.40
16	Centre of Excellence for Horticulture	No.						
17	Awareness+Software maintenance			279.00				
18	Mission Management TSG			300.00		120.86		65.57
	G. Total			5000.04		2417.18		2361.88

Details of fund released and expenditure reported as per web posting since 2007-08

(XI Plan) are given below:

Year	Rupees in crore		Remarks
	Release	Exp.	
2007-08	22.28	20.11	
2008-09	25.00	22.67	
2009-10	23.15	22.94	
2010-11	39.51	32.51	
2011-12	46.50	42.15	
2012-13	48.93	49.38	
2013-14	58.00	62.80	
2014-15	24.17	22.96 23.62	Updated on 22/1/2015

B. Vegetable Initiative for Urban Clusters (VIUC)

VIUC scheme is being implemented since 2011-12 for addressing vegetable supply chain issues in Imphal City. District of Imphal East, Imphal West, Bishnupur and Thoubal have been included as catchment area for producing vegetables. During 2014-15 an outlay of Rs. 2.00 crore has been earmarked for Manipur, against which a sum of Rs. 1.00 crore has released. Activities taken up under VIUC in the State include vegetable seed & seedling production, area expansion under open field and protected cover, HRD, creation of collection centers besides formation of FIG/FPO. So far 1750 farmers have been mobilized into 84 FIGs and 2 FPOs have been registered

in the State.

Visit was undertaken to East Imphal, West Imphal and Bishnupur districts to review the activities taken up under HMNEH and NIUC schemes.

Details on area, production and productivity of horticulture crops during the period 2001-02 and 2013-14 are given below:

1. Imphal East

Fruits

Crop	Area (000 ha)			Production (000 MT)			Productivity (MT/ha)		
	2001-02	2013-14	% Diff.	2001-02	2013-14	% Diff.	2001-02	2013-14	% diff.
Pineapple	650	1262	94.2	3900	12556.9	222.0	6.0	10.0	65.8
Banana	60	734	1123.3	472	9909	1999.4	7.9	13.5	71.6
Orange		168			1512			9.0	
Lime/Lemon	56	0	-100.0	224	0	-100.0	4.0		-100.0
Passion fruit		111			1220			11.0	
Other fruits	254	1155	354.7	400	8085	1921.3	1.6	7.0	344.5
Total	1020	3430	236.3	4996	33283	566.2	4.9	9.7	98.1

Vegetables

Crop	Area (000 ha)			Production (000 MT)			Productivity (MT/ha)		
	2001-02	2013-14	% Diff.	2001-02	2013-14	% Diff.	2001-02	2013-14	% diff.
Cauliflower	200	540	170.0	2000	5940	197.0	10.0	11.0	10.0
Cabbage	200	1217	508.5	2295	14482	531.0	11.5	11.9	3.7
Tomato	75	556	641.3	606	5643	831.2	8.1	10.1	25.6
Pea	110	970	781.8	619	9923	1503.1	5.6	10.2	81.8
Other vegetables	40	1013	2432.5	109	10282	9333.0	2.7	10.2	272.5
Total	625	4296	587.4	5629	46270	722.0	9.0	10.8	19.6

Spices

Crop	Area (000 ha)			Production (000 MT)			Productivity (MT/ha)		
	2001-02	2013-14	% Diff.	2001-02	2013-14	% Diff.	2001-02	2013-14	% diff.
Chillies	1200	1458	21.5	3600	11504	219.6	3.0	7.9	163.0
Ginger	55	260	372.7	572	3120	445.5	10.4	12.0	15.4
Turmeric	40	206	415.0	488	2472	406.6	12.2	12.0	-1.6
Others		131			753			5.7	
Total	1295	2055	58.7	4660	17849	283.0	3.6	8.7	141.4

2. Imphal West

Fruits

Crop	Area (000 ha)			Production (000 MT)			Productivity (MT/ha)		
	2001-02	2013-14	% Diff.	2001-02	2013-14	% Diff.	2001-02	2013-14	% diff.
Pineapple	180	629	249.4	1110	6259	463.9	6.2	10.0	61.4
Banana	150	775	416.7	1242	10463	742.4	8.3	13.5	63.1
Orange		170			1530			9.0	
Lime/Lemon	40		-100.0	160	0	-100.0	4.0		-100.0
Passion fruits		120			1319			11.0	
Other fruits	208	900	332.7	367	6300	1616.6	1.8	7.0	296.7
Total	578	2594	348.8	2879	25871	798.6	5.0	10.0	100.2

Vegetables

Crop	Area (000 ha)			Production (000 MT)			Productivity (MT/ha)		
	2001-02	2013-14	% Diff.	2001-02	2013-14	% Diff.	2001-02	2013-14	% diff.
Cauliflower	160	515	221.9	1600	5665	254.1	10.0	11.0	10.0
Cabbage	150	1079	619.3	1745	12840	635.8	11.6	11.9	2.3
Tomato	70	307	338.6	567	3116	449.6	8.1	10.1	25.3
Pea	100	944	844.0	613	9657	1475.4	6.1	10.2	66.9
Other vegetables	35	941	2588.6	100	9551	9451.0	2.9	10.1	255.2
Total	515	3786	635.1	4625	40829	782.8	9.0	10.8	20.1

Spices

Crop	Area (000 ha)			Production (000 MT)			Productivity (MT/ha)		
	2001-02	2013-14	% Diff.	2001-02	2013-14	% Diff.	2001-02	2013-14	% diff.
Chillies	1000	1239	23.9	3050	9776	220.5	3.1	7.9	158.7
Ginger	50	214	328.0	520	2568	393.8	10.4	12.0	15.4
Turmeric	30	235	683.3	378	2820	646.0	12.6	12.0	-4.8
Others		132			759			5.8	
Total	1080	1820	68.5	3948	15923	303.3	3.7	8.7	139.3

3. Bishnupur

Fruits

Crop	Area (000 ha)			Production (000 MT)			Productivity (MT/ha)		
	2001-02	2013-14	% Diff.	2001-02	2013-14	% Diff.	2001-02	2013-14	% diff.
Pineapple	1170	1641	40.3	7605	16328	114.7	6.5	10.0	53.1
Banana	180	710	294.4	1392	9585	588.6	7.7	13.5	74.6
Orange	130	230		520	2070			9.0	
Lime/Lemon	107	0	-100.0	428	0	-100.0	4.0		-100.0
Passion fruits		232			2550			11.0	
Other fruits	1300	1738	33.7	1397	12166	770.9	1.1	7.0	551.4
Total	2887	4551	57.6	11342	42699	276.5	3.9	9.4	138.8

Vegetables

Crop	Area (000 ha)			Production (000 MT)			Productivity (MT/ha)		
	2001-02	2013-14	% Diff.	2001-02	2013-14	% Diff.	2001-02	2013-14	% diff.
Cauliflower	235	539	129.4	2232	5929	165.6	9.5	11.0	15.8
Cabbage	270	1204	345.9	3200	14328	347.8	11.9	11.9	0.4
Tomato	100	628	528.0	821	6374	676.4	8.2	10.1	23.6
Pea	280	908	224.3	1592	9289	483.5	5.7	10.2	79.9
Other vegetables	40	666	1565.0	110	6760	6045.5	2.8	10.2	269.1
Total	925	3945	326.5	7955	42680	436.5	8.6	10.8	25.8

Spices

Crop	Area (000 ha)			Production (000 MT)			Productivity (MT/ha)		
	2001-02	2013-14	% Diff.	2001-02	2013-14	% Diff.	2001-02	2013-14	% diff.
Chillies	610	874	43.3	1833	6896	276.2	3.0	7.9	162.6
Ginger	40	239	497.5	450	2868	537.3	11.3	12.0	6.7
Turmeric	35	217	520.0	388	2604	571.1	11.1	12.0	8.2
Others		131			753			5.7	
Total	685	1461	113.3	2671	13121	391.2	3.9	9.0	130.3

The following officials were present during the visit:

1. Shri R.K. Jayanta Kumar, DHO, Imphal,
2. Shri Jogeshchandra Sharma, AO, Imphal,
3. Shri Goal Chandra Sharma, ASMS, Imphal,
4. Shri M. Ibotom, AAO, NVI
5. Shri Shakti Kumar Roy, AAO, Imphal,
6. Shri Jaideva Sharma, AO, Bishnupur,
7. Shri P. Buren Singh, AO, Bishnupur.
8. Shri Nabachandra, AO, Training, Imphal

Activities such as area expansion, protected cultivation, vermi composting, setting of TC unit under HMNEH component of MIDH scheme and activities like vegetable seedling production, cultivation of vegetables under open field condition and setting up of collection centres for vegetables under VIUC were reviewed during the field visit.

At Angtha village, Keirobiba subdivision, East Imphal district, Shri Bishamber Singh has taken up pineapple cultivation of Queen variety in 3 ha., out of which 1 ha was planted during the year 2013-14 and another 2 ha was being covered during 2014-15. Planting material was suckers from his own plot. He had no problem in marketing of pineapples as ready market was available at Yairipok, about 3 km away as well as Imphal, about 15 kms away. He fetched Rs.15-20 per piece during peak season (June-July) and Rs.40-60 per piece during the lean season. He has been cultivating pineapple since last 10 years.



Pineapple cultivation was being taken up on hill slopes, going right up to hill top without any soil and water conservation measures. With persuasion by the field staff, farmers in the area have started planting the crop across the slope.



Shri Bishamber has been provided assistance for 120 sq.m poly tunnel during 2013-14 under VIUC for raising vegetable seedlings of crops like cucumber, tomato and water melon. Seeds were supplied by the Horticulture



Department. Moreover, 100% assistance has been provided for the poly tunnel structure, although VIUC scheme stipulates only 50% assistance with beneficiary contribution of balance 50%.

In the adjoining plot, Mrs L. Chaoba Devi, w/o Shri L. Krishna Johan has also been provided 100% assistance under VIUC during 2013-14 for constructing a 500 sq.m poly house for cultivating tomato (Badshah variety). First crop was planted in October, 2014. Since December, 2014, they have been harvesting 50 KGS of tomato on alternate days, fetching an average price of Rs.30/kg. Freshly harvested tomatoes, ready to



be taken to the nearby market for sale, is seen in the picture. They are planning to take up next crop of tomato in March, 2015. They are also planning to take up cultivation of cucumber. Seeds have been supplied by the Department.

They are in the process of establishing a vermi compost unit. Earthworm is being procured from Shri Tomchou at Tayong village.



Interactions were held with Shri N. Tomchou's brother at Tayong village where 7 vermi compost units have been established during 2013-14 under HMNEH. subsidy



assistance of Rs.2.10 lakh was provided. He has been supplying Italian worms as well as vermi compost. Selling price of compost is Rs.15/kg.

Shri Tomchou has also set up a nursery for raising vegetable seedlings under 500 sq.m poly house.



He has also set up a mushroom production unit on his own. Waste straw material from the mushroom unit was being used for composting.



Shri N. Gojen, has set up a 500 sq.m poly house at Chingnugkok village during 2012-13 for growing flowers. He is selling the flowers at Imphal @ Rs.10/flower. Ferns & Petals is one of the main purchaser of flowers from him.



A TC unit is being established at Nongad village. The unit is proposed to be run in a PPP mode by the Horticulture Department by leasing out the unit to Educated Farmers Association (EFA). It is proposed to produce one million plantlets of banana covering all promising varieties of North Eastern states, besides grand naine. Construction work



started in 2012-13, involving an investment of Rs.100.00 lakh.

Ground floor of the building is housing a cold room belonging to EFA. TC unit is being set up on the 1st and 2nd floors of the building. Required equipments such as autoclave, laminar flow have been purchased. Washing facility is at the ground floor, from where the glassware will be shifted by lift to the 1st floor for media preparation. Growth rooms are located on the 2nd floor.



Non availability of assured power supply appear to be a serious constraint. Arrangements are being made to purchase a gensert. Dr. V.P. Singh, expert in TC is providing consultancy service for setting up the unit. The unit is expected to start functioning by March, 2015.

EFA has established a mushroom production unit in the premises near the TC Unit, on their own.

They have also taken up floriculture in 8000 sq.m poly houses in the adjoining field. Flowers like gerbera and roses are being produced and sold to Ferns & Petals, Imphal @ Rs.10/piece.



At Sajeb village, interaction was held with Shri Ch. Shared Chandra, President Moirangkampu FIG, which was established in the year 2012-13 comprising of 15 members.



Shri Chandra has donated a piece of land for establishing a collection centre here vegetables are stored during night hours. Thereafter, the vegetables are sold sold by the farmers at nearby market (Lamlong) or Imphal market.



Gallium Tuberrum, a spice crop, also known as Maroi Nakupi, is grown widely, as it is a local delicacy. Spring onion, cabbage, and cauliflower are other vegetables being cultivated under VIUC in the village.



At Heinonbok village, a poly house has been constructed by Shri Longjamtom of Terahrak FIG, comprising of 15 members. Four members are involved in nursery activity. A 120 sq.m poly tunnel has been set up at a cost of Rs.1.20 lakh, with 100% assistance.

At Khoijuman village, Bishnupur district, Shri Khogen has taken up cultivation of French beans in 0.75 ha during 2014-15 under VIUC. He is a member of Khoijuman Marang FIG having 30 members. Vegetables like tomato, cabbage and peas is also being cultivated in the vegetable cluster.



A pack house cum collection centre has been set up during 2012-13 at a cost of Rs.4.00 lakh in the plot of Shri Herojit Singh. He has also availed 100% assistance for setting up 1000 sq.m hi-tech green house for cultivating vegetables.



During discussion with Shri Ratan Kumar, Nodal Officer, HMNEH, Manipur it was enquired as to how 100% assistance was being provided to the beneficiaries on items like protected cultivation for which HMNEH norms, as per guidelines stipulate assistance @ 50% of cost. It was also enquired about the method of selection of beneficiaries. Since almost all assistance was being provided to the beneficiaries in the form of inputs / in kind, it was enquired about the methodology of procurement and disbursement.

Nodal Officer mentioned that since the farmers of Manipur were not in a position to contribute their 50% share for poly house, 100% assistance was being provided after accounting for farmers' contribution in terms of labour. For this purpose, centralized procurement is made by the Horticulture Department from poly house fabricators, where rates are decided on the basis of tender floated by the Department. The material procured is stored centrally and then transported to the districts for installation by Departmental staff. As per the rate list provided by the Department, a unit cost of Rs. 1,863/- per sq. m. was adopted during 2013-14, against approved HMNEH norms of Rs. 935 per s. m. for a naturally ventilated poly house. This rate was quoted by M/s Florence Flora (**Annexure I**).

A Committee on Centralized Procurement under the Chairmanship of Commissioner (HSC), Govt. of Manipur is responsible for deciding the rates and selecting the vendor / manufactures. This Committee was constituted in December, 2003 (**Annexure II**). Nodal Officer mentioned that centralized procurement was being done on account of insurgency problem in the districts.

The District Mission Committee (DMC), which has been reconstituted in March, 2014, under the Chairmanship of Deputy Commissioner of concerned district is responsible for selecting the beneficiaries. The TOR of the DMC is not reflected in the order (**Annexure III**).

It was pointed out to the Nodal Officer that subsidy assistance need to be in accordance with HMNEH guidelines and norms. Any assistance, over and above the approved norms should be borne by the State Government.

With regard to web posting of HMNEH progress, it was observed that district level progress was being uploaded at State H Q. It was impressed upon the need to training the district level officers to pos the progress in the respective district.

Since progress for the month of November and December was not uploaded, the same was got uploaded. DEO, Shri Nabakishore was trained to post the data at State HQ level for the state as a whole.

Points needing attention of SHM

1. Improvement in area, production and productivity of horticulture crops in the districts between 2001-02 and 2013-14 is a welcome sign. However, increase in production need to be supported with creation of infrastructure for post harvest management and marketing.
2. An outlay of Rs. 2.92 crore has been earmarked for creating 46 PHM infrastructure during 2014-15, which need to be taken up by getting project proposals.
3. Similarly 30 markets are to be set up with an outlay of Rs. 2.42 crore, for which project proposals need to be expedited.
4. It need to be ensured that cost norms and pattern of assistance envisaged under MIDH are adhered to.
5. District level Officers need to be trained to post the monthly progress on HMNEH web site from respective districts.
6. Under VIUC, although collection centres have been created, it serves the purpose of overnight storage only. Farmers have to make their own arrangements for marketing of produce, as there is no market aggregator.

Project cost/ estimate for Vegetable Poly house (Tubular Structure) Construction 500 Sqm. for 2013-14

Sl. No.	Item	Qty.	Rate Per Sqm.	Amount (Rs.)
1	Naturally ventilated Poly House, Bay Size: 7.5m X 3.3m, Ridge Height: 6.5 m, Gutter Height: 3m. Structure: welding free, made of GI pipes of thickness 2 mm. GI Nuts and bolts, Columns: 48 mm OD, Trusses: 33 mm OD, Truss member: 33 mm OD, Purlin: 42 mm OD. Foundation: Telescopic insertion type, foundation concrete. Entrance: single door size 1 m X 2 m made of 33 mm OD GI pipes. Cladding material: 200 micron thick UV transparent plastic films. Fixing of cladding materials: Fixed to GI profiles with Zigzag springs. Shade net: UV stabilized 35 % shade net in all sides and for area same as the floor area.	1 No.	Rs. 1863.00/-	Rs. 9,31,500.00/-

We look forward to your valuable order.

For Florance Flora Marketing



Bijoy Thoudam
Asst. Manager,
Manipur Unit



GOVERNMENT OF MANIPUR
SECRETARIAT : HORT & SC DEPARTMENT

ORDERS BY THE GOVERNOR, MANIPUR
Imphal, the 16th December, 2003

No. 1/1/2001-HSC(TM). In pursuance of the decision taken in the meeting of the State Level Steering Committee on Technology Mission for Development of Horticulture held on 27-11-03 the Governor of Manipur is pleased to constitute a Committee on Centralised Procurement of quality planting materials and other inputs consisting of the following Officers/Members.

- | | |
|--|--------------------|
| 1. The Commissioner(HSC), Govt. of Manipur | - Chairman |
| 2. The Director (HSC), Manipur | - Member |
| 3. A representative from CAU, Imphal | - Member |
| 4. A representative from ICAR, Imphal Centre | - Member |
| 5. Officer-in-charge TM Cell Imphal | - Member Secretary |

By orders & in the name of the Governor,

(Henry K. Heni)

Commissioner(HSC), Govt. of Manipur.

Copy to:

1. The PPS to Hon'ble Minister(HSC), Manipur.
2. The PS to Chief Secretary, Govt. of Manipur.
3. The Director (HSC), Manipur.
4. The Director (Agri), Manipur.
5. The Director(Research), CAU Iroiseмба, Imphal.
6. The Joint Director ICAR, Imphal Centre, Lamphel pat
7. All Deputy Commissioners, Manipur
8. All District Officers (HSC), Manipur
9. Guard file.

GOVERNMENT OF MANIPUR
SECRETARIAT : HORTICULTURE & SOIL CONSERVATION DEPARTMENT

ORDERS BY THE GOVERNOR: MANIPUR

Imphal, the 25th March, 2014

No. 1/3/2013-HSC: The Governor of Manipur is pleased to constitute the **District Mission Committee (DMC)** at District level with the following Chairman and Members for the Mission on Integrated Development of Horticulture (MIDH) for implementation of Schemes under the Mission in all the 9(nine) Districts in the State of Manipur.

- | | |
|---|--------------------|
| 1. Deputy Commissioner concerned | - Chairman |
| 2. Representative of Agriculture Department | - Member |
| 3. Representative of Marketing board | - Member |
| 4. Representative of Local banks | - Member |
| 5. Representative of Self help groups | - Member |
| 6. Representative of NGOs | - Member |
| 7. District Officer (H&SC) | - Member Secretary |

The District Mission Committee (DMC) shall be responsible for carrying forward the objectives of the Mission for project formulation, implementation and monitoring.

By orders & in the name of Governor,
Sd/-
(J.C. Ramthanga)
Commissioner (H&SC), Govt. of Manipur

Memo No. 1/3/2013-HSC

Imphal, the 25th March, 2014

Copy to:

1. The PPS to Hon'ble Dy. Chief Minister (H&SC), Manipur
2. The Parliamentary Secretary(H&SC), Manipur
3. The Staff Officer to the Chief Secretary, Govt. of Manipur
4. The Secretary, Horticulture Division, Department of Agriculture & Cooperation, Ministry of Agriculture, Krishi Bhavan, New Delhi.
5. The Director of Horticulture & SC, Manipur
6. All Deputy Commissioners (Imphal West/ Imphal East/ Thoubal/ Bishnupur/ Churachandpur/ Ukhrul/ Chandel/ Tamenglong/ Senapati), Manipur.
7. All Members DMC
8. Guard file.

(Dr. Rangitabali Waikhom)
Deputy Secretary (H&SC), Govt. of Manipur