

**STARRED QUESTION TO BE ASKED BY SHRI JEMINO MAWTHOH, MLA
DURING THE BUDGET SESSION OF THE MEGHALAYA LEGISLATIVE
ASSEMBLY, 2013.**

Will the Minister in-charge - Dr. Mukul Sangma, Chief Minister
Fisheries be pleased to state:- in-charge Fisheries to reply.

Questions

Reply

*8. The progress of the State Aqua culture
Mission ?

A Statement is laid on the table
of the House.

Memo No. PISC(G)15/2013/3-A

Dated Shillong the 19th March, 2013.

1. Copy in quadruplicate forwarded to the Joint Secretary, Meghalaya Legislative Assembly with reference to letter No.LB.19/LA/2013/3 dated 14-3-2013.
2. The Private Secretary to the Chief Minister in-charge Fisheries for information of the Chief Minister.
3. The Private secretary to the Chief Secretary for information of the Chief Secretary.
4. The Parliamentary Affairs Department.
- ✓ 5. The Principal Secretary, Fisheries Department.
6. The Director of Fisheries, Meghalaya, Shillong.
7. The Under Secretary to the Govt. of Meghalaya, Chief Minister's Secretariat for information.

By order etc.,


(P. L. Lawai)

Deputy Secretary to the Govt. of Meghalaya,
Fisheries :: Department

**STATEMENT ON THE PROGRESS OF
THE MEGHALAYA STATE AQUACULTURE MISSION**

The progress of the State Aquaculture Mission is as below:

(a) AREA EXPANSION (MINI MISSION – I)

Schemes	No. of partners	Water Area (in Ha.)	Subsidy (Rs. in lakhs)	Target date for completion
Special Plan Assistance (SPA) State Livelihood Mission (2010 – 11)	5618	561.80	3033.72	30.4.2013
Special Plan Assistance (SPA) Value Chain Management (2010 – 11)	900	90.00	486.00	31.8.2013
RKVY (2011 – 12)	1220	122.00	710.98	31.8.2013
Special Plan Assistance (SPA) Infrastructure for pisciculture (2012 – 13)	3735	373.50	2176.68	31.8.2014
TOTAL	11473	1147.30	6407.38	

The breakup is as below:

A). Mini Mission – I: Area and Productivity Expansion:

i) Area expansion through individual ponds (SPA 2010–11): A total of 5618 individual fish ponds of 0.1 ha size have been sanctioned by the Government under the Mission, to cover a water area of 56.18 Ha in the State as per the details given below:

Sl. No.	District	Nos.	Water Area in Ha	Subsidy (Assistance) Rs. in lakhs
1.	East Khasi Hills	1010	101.00	545.40
2.	Jaintia Hills	600	60.00	324.00
3.	West Khasi Hills	800	80.00	432.00
4.	Ri-Bhoi	750	75.00	405.00
5.	East Garo Hills	540	54.00	291.60
6.	West Garo Hills	1438	143.80	776.52
7.	South Garo Hills	480	48.00	259.20
TOTAL		5618	561.80	3033.72

The MCAB has already issued sanctions for 4328 ponds for first installment amounts as per the details given below:

Sl. No.	Districts	Applications sanctioned through bank branches	Total Project Cost (Rs. in lakhs)	Bank Loan @25% Rs in lakh	Subsidy @ 60% Rs. in lakh	Total Amount sanctioned
1.	East Khasi Hills	962	865.80	216.45	519.48	735.93
2.	Jaintia Hills	597	53730	133.825	322.38	456.755
3.	West Khasi Hills	742	66780	166.95	400.68	567.63
4.	Ri-Bhoi	688	61920	154.80	371.52	526.32
5.	East Garo Hills	493	443.70	110.925	266.22	377.145
6.	West Garo Hills	697	62730	156.825	376.38	533.205
7.	South Garo Hills	149	13410	33.525	80.46	113.985
	Total	4328	3895.20	973.80	2337.12	3310.92

The work is going on at a rapid pace and the target date for the completion of the entire work is 30.4.2012.

(ii) Under RKVY (2011-12), an amount of Rs. 7.33 crore was released to the FFDA for undertaking construction of individual ponds, as per the details given below:

Sl. No.	District	Nos. of ponds	Water Area in Hectares	Subsidy (Assistance)
1.	East Khasi Hills	120	12.00	69.93
2.	Jaintia Hills	100	10.00	58.28
3.	East Jaintia Hills	120	12.00	69.93
4.	West Khasi Hills	100	10.00	58.28
5.	South West Khasi Hills	100	10.00	58.28
6.	Ri-Bhoi	120	12.00	69.93
7.	East Garo Hills	120	12.00	69.93
8.	West Garo Hills	130	13.00	75.76
9.	South Garo Hills	90	9.00	52.45
10.	North Garo Hills	90	9.00	52.45
11.	South West Garo Hills	130	13.00	75.76
	TOTAL	1220	122.00	710.98

Target date for completion of the above ponds is 31.8.2013

(iii) Value Chain Management (2010 – 11): for an amount of Rs. 5.00 crore

Sl. No.	District	Nos.	Water Area in Ha	Subsidy (Assistance) (Rs. in lakhs)
1.	East Khasi Hills	138	13.80	74.52
2.	Jaintia Hills	80	8.00	43.20
3.	West Khasi Hills	84	8.40	45.36
4.	Ri-Bhoi	156	15.60	84.24
5.	East Garo Hills	150	15.00	81.00
6.	West Garo Hills	230	23.00	124.20
7.	South Garo Hills	62	6.20	33.48
TOTAL		900	90.00	486.00

Target date for completion of the above ponds is 31.8.2013

(iv) SPA (2012 – 13): for an amount of Rs. 22.50 crore

Sl. No.	District	Nos. of ponds	Water Area in Hectares	Subsidy (Assistance) (Rs. in lakhs)
1.	East Khasi Hills	585	58.50	340.93
2.	Jaintia Hills	270	27.00	157.35
3.	East Jaintia Hills	225	22.50	131.12
4.	West Khasi Hills	180	18.00	104.90
5.	South West Khasi Hills	225	22.50	131.12
6.	Ri-Bhoi	450	45.00	262.25
7.	East Garo Hills	315	31.50	183.58
8.	West Garo Hills	450	45.00	262.25
9.	South Garo Hills	225	22.50	131.12
10.	North Garo Hills	315	31.50	183.58
11.	South West Garo Hills	495	49.50	288.48
TOTAL		3735	373.50	2176.68

Target date for completion of the above projects is 31.3.2014

B). Mini Mission- II: Critical Infrastructure Development:

- (i) *Establishment of Fish Seed hatcheries in Private sector:* A total of 17 (seventeen) projects have been recommended by the respective District Aquaculture Mission Committees (DAMC) covering all the districts of the state, as per the details given below:

Sl. No.	District	No. of recommended proposals by DAMC	No. assisted during 2011-12	Nos. to be assisted during 2012-13
1	East Khasi Hills	3	1	2
2	Jaintia Hills	2	-	2
3	West Khasi Hills	1	-	1
4	Ri-Bhoi	4	1	3
5	East Garo Hills	1	1	-
6	West Garo Hills	4	1	3
7	South Garo Hills	2	1	1
	Total	17	5	12

Total amount sanctioned during 2011 – 12 was Rs. 48.00 lakhs

Total amount sanctioned during 2012 – 13 was Rs. 1.46 crore

- (ii) *Establishment of Fibre Reinforced Plastic (FRP) hatcheries in Private Sector:*
A Total of 20(twenty) projects have been recommended by DAMC of which sanctions for 6 (six) projects had already been issued. The details are as follows:

Sl. No.	District	No. of recommended Beneficiaries by DAMC	Sanctioned
1.	West Garo Hills	3	1
2.	East Garo Hills	3	1
3.	South Garo Hills	2	
4.	Ri-Bhoi	4	1
5.	East Khasi Hills	3	1
6.	West Khasi Hills	1	1
7.	Jaintia Hills	4	1
	Total	20	6

Total amount sanctioned Rs. 18,38,304/-

The balance cases will be cleared as and when funds become available.

(iii) Fish Feed production through Private entrepreneurs: 3 (three) Fish Feed mills will be established in three districts of the state. Steps to implement the scheme are under process. District wise allocation of projects are as follows:

Sl. No.	District	No. of Fish Feed Mill to be established
1.	East Khasi Hills	1
2.	Ri-Bhoi	1
3.	West Garo Hills	1
	Total	3

C). Mini Mission - III: Establishing sanctuaries for conserving the indigenous and endemic species:

A total of 57 sanctuaries have been recommended by the respective DAMCs. Out of these, sanction for 37 projects have already been issued during 2012 – 13. Details of the recommended projects are as below:

Sl. No.	District	No. of Sanctuaries to be created as recommended by DAMC
1.	East Khasi Hills	13
2.	West Khasi Hills	5
3.	Jaintia Hills	10
4.	Ri- Bhoi	4
5.	South Garo Hills	12
6.	West Garo Hills	5
7.	East Garo Hills	8
		57

An amount of Rs. 2.48 crore has been sanctioned for 37 sanctuaries. Establishment of sanctuaries would also include other programmes like orientation workshop for villages with potential, media campaign, documentation etc. The target date for the completion of the work is 31.8.2013. The balance number of 20 sanctuaries will be taken up in 2013-14.

D). Mini Mission – IV: Capacity Building and Human Resource Development

The Departmental Officers have been deputed for various trainings, to upgrade that capacities and knowledge:

A. Training of Departmental Officers:

- i. 4 (four) Departmental Officers have been sent to Kerala and 1 (one) Officer to Hyderabad during the month of November, 2012 to study the “**Fish Feed Mill**” established in the Private Sectors in these areas.
- ii. 7 (seven) Departmental Officers have been deputed for a study tour to Kolkata, w.e.f. 13th to 16th January, 2012 to study the “**Scampi Culture**” with the intention of replicating the same in our State.
- iii. (Ten) Departmental Officers have been sent for short term executive development training at IIM, Bangalore w.e.f. 23rd April, 2012 to 18th May, 2012.
- iv. Fish Culture Development. 1(one) officer of the department was sent for training during 2012-13 on ‘Fish Culture Development’ at Egyptian International Centre for Agriculture – Egypt.
- v. 16 (sixteen) Programme Managers have been given a short term training as follows:
 - (a) **Network & Web Application for Management of RD Programmes** at NIRD, Guwahati w.e.f. 23rd to 28th January, 2012.
 - (b) **Fisheries Orientation Programme** at ICAR, Barapani w.e.f. 30th January to 3rd February, 2012.
 - (c) **Project Management Workshop** at Polaris Solutions, Shillong w.e.f. 13th to 18th February, 2012, and 5 newly recruited Programme Managers have also been trained in the same institution w.e.f. 24th – 27th September, 2012.

B. Training of potential Fish Farmers:

- i. A MOU has been signed with the NIRD, Guwahati for organizing an exclusive specifically designed training programme for our farmers. 703 potential Fish Farmers have already been trained at NIRD, Guwahati on “**Capacity building of Rural Functionaries and Progressive Fish Farmers for Development of Pisciculture in Meghalaya**”. District wise break-up is as follows.

Sl. No.	Districts	Participants
1.	East Khasi Hills	105
2.	West Khasi Hills	158
3.	Ri Bhoi	119
4.	Jaintia Hills	115
5.	West Garo Hills	67
6.	South Garo Hills	57
7.	East Garo Hills	82
	Total	703

- ii. 8 (eight) Entrepreneurs selected for Fish Seed Hatcheries have been sent for training on the **“Operation of Hatcheries, Breeding technique of Indian Major Carps (IMC)”** at Regional Research Centre, Kalyani, West Bengal w.e.f 3rd – 9th August, 2012.

- C.** Construction of 5 (five) Training Halls viz, 1 (one) each at Nongstoin, Williamnagar, Nongpoh, Jowai and Tura will take place during this year.
- D.** Mawpun Research Centre, Mawpun, Ri Bhoi District has been upgraded. Training of at least 2 (two) batches per month comprising of 40 (forty) farmers per batch will commence from May, 2013 onwards.
- E.** All District Head Quarters have been provided with essential computing infrastructure viz, Computers, Digital Cameras, LCD Projectors, GPS, etc.,

E). Mini Mission V: Mass Media Campaign, Documentation and Outreach

- (i) 5 (five) workshops and seminars to discuss various issues concerning the Fisheries development in the State with the experts have been held.
- (ii) Mass Mobilization Campaigns to publicize the objectives, goals of the State Aquaculture Mission were held at Ampati, Selsella, Mawphlang, Umsning, Tura and Shillong during the period from November, 2011 to 2012. In addition, awareness programmes have also been held at Williamnagar, Nongstoin, Jowai, etc.
- (iii) An exclusive website for the Meghalaya State Aquaculture Mission has been created www.msam.nic.in

F). Mini Mission - VI Emerging opportunities and Convergence initiatives:

- i. A Community Pond at Ja-ud under East Khasi Hills is being developed into an Aqua Park in partnership with Soil and Water Conservation Departments. (Work is in Progress).
- ii. Development of Aqua parks at Phot-Ja-ud, Mawkyrwat in South West Khasi Hills, Kiew Irat Welfare Association, Umtasor, Ri- Bhoi District, Changa Benga under Betasing Block, West Garo Hills have been taken up for implementation during 2012-13 and sanctions have been conveyed.
- iii. Under **MSDP**: West Garo Hills district has received an amount of Rs. 77.25 lakh for undertaking construction of individual fish ponds in minority concentrated blocks. Work is in progress.
- iv. Under **BRGF**: (1) In **West Garo Hills** district Rs. 56.00 lakh was sourced from the BRGF, for upgrading the Departmental Fish Farm at Digrichiring, and Rs. 37.00 lakh for construction of community ponds. Work is in progress. (2) In **Ri Bhoi** District, an amount of ₹82.81 lakh has been sourced for the construction of 137 individual ponds, 2 Hatcheries and 10 Community Ponds under the BRGF.
- v. Under the MGNREGS: In Ri Bhoi District, a proposal for developing 18 community ponds in a convergence mode with the MSAM is being considered in the Department. The amount of the proposal is ₹ 74.00 lakh.

G). Partnership with the GIZ: An MoU has been signed with the German development Agency, GIZ, for upgrading and renovating the Trout Farm at Shillong in a partnership mode with the Department of Fisheries. The work is in progress.

Supplementary Note for the Assembly Question:

A. Mini Mission – I

Area Expansion for Individual Ponds:

1. Mode of selection of beneficiaries and implementation of the scheme:

- i. The interested applicants are registered through mobilisation campaign, followed by the advertisement of the scheme through local media.
- ii. The shortlisted applicants are surveyed by the Departmental officials along with the MCAB officials.
- iii. The Feasible projects are placed under the respective District Aquaculture Mission Committees / Block Level Committees for recommendation.
- iv. Final approval accorded by the CEO, FFDA.
- v. Initially beneficiaries will have to take up the work with their own contribution of 15%. The loan cum subsidy by MCAB will be released on 2 (two) instalment depending on the progress of works as verified by the Department and MCAB.
- vi. The Major Inputs like fish seeds, fish feed, equipments is arranged by the Department and supplied to the beneficiaries concerned.

2. Norms of the Scheme under SPA

Sl. No.	Scheme	Specification of a pond	Project cost	Subsidy 60%	Bank Loan 25%	Own Contribution 15%
1.	Special Plan Assistance (SPA) 2010-11 State Livelihood Mission	0.1 Ha	Rs. 90,399/-	Rs. 54,000/- (rounded)	Rs. 22,500/-	Rs. 13,899/-
2.	Special Plan Assistance (SPA) 2010-11 Value Chain Management	0.1 Ha	Rs. 90,399/-	Rs. 54,000/- (rounded)	Rs. 22,500/-	Rs. 13,899/-
3.	RKVY 2011-12	0.1 Ha	Rs. 97,131/-	Rs. 58,279/-	Rs. 24,282/-	Rs. 14,570/-
4.	Special Plan Assistance (SPA) 2012-13 Infrastructure for Pisciculture	0.1 Ha	Rs. 97,131/-	Rs. 58,279/-	Rs. 24,282/-	Rs. 14,570/-

3. Targeted Fish Production @ 2 MT/ Ha –

Scheme	Water Area (Ha) covered	Targeted Annual Fish Production in MT
SPA State Livelihood Mission 2010-11	561.80	1123.6 MT
Special Plan Assistance (SPA) 2010-11 Value Chain Management	90.00	180 MT
RKVY 2011-12	122.00	244 MT
Special Plan Assistance (SPA) 2012-13 Infrastructure for Pisciculture	373.50	747 MT
TOTAL	1147.30	2294.6 MT

B. Mini Mission – II

a) Establishment of Fish Seed Hatcheries (Chinese Hatcheries) in Private Sector:

1. Mode of selection of beneficiaries and implementation of the scheme:

- i. The interested applicants are registered through mobilisation campaign, followed by the advertisement of the scheme through local media.
- ii. The shortlisted applicants are surveyed by the Departmental officials along with the MCAB officials.
- iii. The Feasible projects are placed under the respective District Aquaculture Mission Committees for recommendation.
- iv. Final approval accorded by the CEO, FFDA.
- v. Selected beneficiaries are sent for short term training on hatcheries at CIFA Bhubaneswar/ Kalyani, West Bengal.
- vi. Initially beneficiaries will have to take up the work with their own contribution of 15%. The loan cum subsidy by MCAB will be released on 2 (two) instalment depending on the progress of works as verified by the Department and MCAB.
- vii. The Major Inputs like fish seeds, fish feed, equipments is arranged by the Department and supplied to the beneficiaries concerned.

2. Norms of the Scheme as per NFDB norms:

Project cost	Eligible Farm Area	Subsidy 60%	Bank Loan 25%	Own Contribution 15%
Rs. 16 lakhs	2.0 Ha	Rs. 9.6 Lakhs	Rs. 4.0 lakhs	Rs. 2.4 lakhs/-

3. Capacity of each hatchery- Each Hatchery will have a capacity of producing 24 lakhs nos. of fingerlings per cycle.

b) Establishment of Fabricated Re-enforced Plastic Hatcheries:

1. Mode of selection of beneficiaries and implementation of the scheme:

The same procedure for selection of beneficiaries is followed as in the case of Chinese Hatcheries above.

Implementation:

- i) Initially the entrepreneurs will have to deposit the 15% own contribution to MCAB. The MCAB will then sanction the loan of 25% and after sanction of the loan FFDA will release the 60% subsidy to MCAB.
- ii) When all formalities mentioned above at (8) are finalized, the DEOs will indent the requisite number of FRPs from CIFA, Bhubaneswar.
- iii) On delivery of the goods the DEOs /SDEOs will check, verify and on being satisfied they will advise the MCAB to release the full amount in respect of the cost of FRP to CIFA, Bhubaneswar.

2. Norms of the Scheme as per NFDB norms:

Project cost	Eligible Farm Area	Subsidy 60%	Bank Loan 25%	Own Contribution 15%
Rs. 3,95,640/-	1.0 Ha	Rs. 2,37,384/-	Rs. 98,910/-	Rs. 59,346/-

Note: Transportation of FRP from Bhubaneswar to destination will be separately borne by the Department.

1. Capacity of each hatchery - Each FRP will have the production capacity 10 lakhs nos. fingerlings annually.

c) Establishment of Fish Feed Mill:

To ensure regular supply of fish feed at an affordable price by the farmers, it is very necessary for the installation of Mini-Fish Feed Mills in the State @ 1 (one) Feed Mill for each District. The Feed Mill will be of 500 Kgs/day capacity and will be exclusively utilized for the production of Marsh feed/pelleted feed. Financial assistance to private sector will be provided at 60% subsidy, 25% Bank Loan and 15% beneficiaries' contribution. The selected beneficiaries will be sent for training at CIFA, Bhubaneswar.

2. Norms of the Scheme as per NFDB norms

Project cost	Minimum Land Area	Subsidy 60%	Bank Loan 25%	Own Contribution 15%
Rs 18.00 Lakhs	0.5 Ha	Rs 10.80 lakhs	Rs. 4.50 Lakhs	Rs. 2.70 Lakhs

C. Mini Mission – III

Establishment of Sanctuaries: Target- 200nos for 5 (five) years

Mode of selection and implementation process:

- i) Wide publicity of the scheme is given in the local media.
- ii) Short listed applicants will be enquired by the Departmental Officials
- iii) Feasible projects are placed in the respective DAMC for recommendation.

Norms:

- i) Having facilities for creation of water pool in flowing water with a minimum area of 0.1 ha or 100 running meters and a minimum depth of 1.5 – 2 meters during dry season. A maximum of Rs. 5.00 lakhs will be invested by the Department for Minor civil works and fishery oriented programme for each sanctuaries.
- ii) Construction of mini-barrages for impounding water if required will be done by the locally available materials i.e. stacking of boulders without disturbance to the natural environment.

D. Mini Mission – IV

Capacity Building and Human resource Development

Training of Rural functionaries, fish farmers, Departmental officers will be continued.

E. Mini Mission – V

Mass Media Campaign, Documentation and outreach

Workshops, seminars, mass mobilisation campaign will continued as per the requirement and demand.

F. Mini Mission – VI

Emerging opportunities and convergence initiatives

The programme in creation of Aqua parks/ Aqua tourism in convergence with other relevant Departments will be continued wherever feasible sites for such purposes are available.

Other information:

- (i) Target on the no of ponds to be constructed for 5 (five) years- 1.00 lakhs nos.
- (ii) Target of Fish Production at the end of 5 (five) years – 20,000 MT annually. The successful implementation of the mission can result in balancing the demand and supply of fish in the state, thus achieving self-sufficiency.
- (iii) **Marketing** – Marketing of fish will be done through the following marketing infrastructure:
 - a) *Construction / Up-Gradation of Markets at District Level-* The Existing domestic markets presently are highly un-organised and un-regulated lacking adequate infrastructure like clean water supply , drainages, waste disposal system, fish storage facilities, etc. Hence, upgradation of existing fish markets and construction of new fish markets in the District Head qtrs. will be taken up.
 - b) *Sale of fish in the Rural Market* - To facilitate the sale of fresh fish in the weekly market in the Rural areas, mobile refrigerated vans will be provided to each District in the 3rd year of the Mission
 - c) *Establishing of fish outlets in the select centres of the states-* Sale outlets to be operated by the un- employed youth in collaboration with the Department will be set up across the state so that fish harvested from these ponds can be sold at these outlets. Regular supply of fish to these outlets will be ensured.
 - d) Post Harvest Infrastructure like smoked fish units and dry fish fermentation units will be created. Besides, a variety of fish products will be marketed under the brand name MEGFISH to be operated by the un-employed youth. Training will be imparted. Also, small scale industries for dry fish fermentation like “NA.kam” in Garo Hills and “Tungtap” in Khasi Hills will be created.

All schemes having credit linkages are tied-up with Meghalaya Co-operative Apex Bank (MCAB) through a, “Memorandum of Understanding (MOU)” signed between the Department and the MCAB, Shillong.