

GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE AND FARMERS WELFARE
DEPARTMENT OF AGRICULTURE, COOPERATION AND FARMERS WELFARE

LOK SABHA
UNSTARRED QUESTION NO. 1489
TO BE ANSWERED ON THE 3RD MAY, 2016

BAMBOO CULTIVATION

1489. SHRI SUSHIL KUMAR SINGH:
SHRI DUSHYANT SINGH:

Will the Minister of AGRICULTURE AND FARMERS WELFARE कृषि एवं किसान कल्याण मंत्री be pleased to state:

- (a) the domestic demand and supply of bamboo in the country during the last three years;
- (b) whether there has been a significant gap in the overall supply and demand of bamboo in the country, if so, the details thereof;
- (c) the steps taken by the Government for increasing the bamboo production in the country considering its demand in national and international markets along with the target set for production by the Government in this regard and the details of subsidy/assistance provided by the Government for bamboo cultivation;
- (d) the details of the achievements of the National Bamboo Mission launched in 2006 with respect to the targets set; and
- (e) the details of the various possibilities of industrial production of bamboo and the plans and policies of the Government for better utilization of bamboo sector?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND FARMERS WELFARE

कृषि एवं किसान कल्याण मंत्रालय में राज्य मंत्री (SHRI MOHANBHAI KUNDARIYA)

(a) & (b): Year-wise domestic demands and supply of bamboo during last three years has not been assessed, however, as per the report of Planning Commission, Government of India, April 2003, the demand of bamboo for various purposes was estimated at 26.69 million tons as against the supply of 13.47 million tons.

(c): To promote the bamboo sector, Govt. has adopted an end to end approach which includes incentivising production of quality planting material, increasing the bamboo areas inside and outside forest through new plantation/rejuvenation of degraded bamboo areas, incentivising value addition, creation of marketing infrastructure and capacity building in all the above areas. To achieve this, Department of Agriculture, Cooperation & Farmers Welfare (DAC&FW), Ministry of Agriculture & Farmers Welfare is implementing Mission for Integrated Development of Horticulture (MIDH) in which a Centrally Sponsored Scheme called National Bamboo Mission (NBM) is being implemented as a sub scheme. This scheme is presently being implemented since 2006-07 in all the States except Haryana. Recently, National Bamboo Mission renamed

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as National Agroforestry & Bamboo Mission (NABM) w.e.f. 6th July, 2015 of which Bamboo is an integral part.

Government of India entrusted R&D work to Indian Council of Forestry Research & Education (ICFRE), Dehradun for producing quality planting material of superior genotypes in collaboration with its research institutes. Now ICFRE is intended to multiply genotypes for various bamboo breeding/ improvement program and also for the production of quality planting material, which will be used for increasing the bamboo production in the country. Details of subsidy / assistance provided by Government for bamboo cultivation is given at Annexure – I.

(d): The major achievements of Mission which was launched in 2006 with respect to the targets set are given at Annexure – II and Annexure – III, respectively.

(e): Steps have been taken for production of various bamboo related products like bamboo furniture and bamboo handicrafts, agarbatti sticks, mat, gabion, traditional bamboo products etc. Artisans are provided with skill up-gradation training for making bamboo house / hut, bamboo stick, furniture and other bamboo craft items under NABM guidelines. There is huge potential of bamboo being used for sourcing of production of Bio-ethanol. In this connection, Govt. of Nagaland & Arunachal Pradesh have signed a MoU with Numaligarh Refinery Limited (NRL) for sourcing 5 lakh tonnes/annum bamboo for production of Bio-ethanol.

**Annexure referred to in reply to part (c) of the Lok Sabha Unstarred Question
Dy. No. 1489 due for answer on 03.05.2016
regarding 'Bamboo Cultivation'**

**COST NORMS AND PATTERN OF ASSISTANCE UNDER MIDH FOR
BAMBOO RELATED ACTIVITIES DURING XII PLAN**

S. No	Item	Cost Norms*	Pattern of Assistance#
A.	RESEARCH & DEVELOPMENT		
	i) Research & Development on bamboo	Rs. 100.00 lakh	Central Government Institutes under ICAR, CSIR, ICFRE, SAUs, National level Govt. agencies and others location specific will take up need based applied research & development works in the areas of (i) Seed & Planting material including import of planting material (ii) Technology standardization and (iii) Technology acquisition and (iv) imparting training and FLD, on project mode, with 100% assistance.
B.	PLANTATION INFRASTRUCTURE DEVELOPMENT		
B.1	Production of Planting Material		
	i) Hi-tech Nursery (2 ha)	40.00 lakh/ unit	100% of cost to public sector and 40% of cost to private sector, as credit linked back ended subsidy.
	ii) Small Nursery (0.5 ha)	10.00 lakh/ unit	100% of cost to public sector and 50% of cost to private sector, as credit linked back ended subsidy.
	iii) Rehabilitation of TC unit for bamboo	Rs. 21.00 lakh/unit	100% of cost to public sector and 50% of cost to private sector, as credit linked back ended subsidy
B.2	Area expansion under Bamboo		
	i) Forest areas / Public land (Through JFMC / Panchayati Raj Institutions / SHGs, Women group etc.	Rs. 42,000/ha	100% of cost in three installments (50:25:25) in three years
	ii) Non Forest areas	Rs. 30,000/ha, Rs. 42,000/ha with drip irrigation	35% of cost in 3 installments over a period of 3 years, limited to 4 ha per beneficiary.
B.3	Improvement of Existing Stock		
	i) Improvement of Existing Stock in forest/non-forest areas	Rs. 20,000/ha	100% assistance to Public sector and 40% to Private sector, limited to 2 ha per beneficiary for private sector and no area limit for public sector
B.4	Technology Transfer & HRD		
	i) Training of Farmers/ Artisans	Rs. 1000/day per farmer including transport within State and for outside State, project based as per actual.	100% of cost.
	ii) Training of Field Functionaries	Rs. 300/day per participant plus TA/DA, as admissible.	100% of cost.

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	iii) International training / visit for exposure of NBM staff/ field functionaries including farmers and entrepreneurs in bamboo sector to upcoming technologies.	Rs. 4.00 lakh/ participant	Project based 100% of air/rail fare course fee cost to be funded under Mission Management for a maximum of 50 participants per year on all India basis.
	iv) Demonstration of Plantation Technology	Rs. 50,000/ha	100% of cost in forest areas and public lands. 50% of cost subject to a maximum of Rs. 25,000/ha. for a maximum area of 1 ha per beneficiary in non-forest areas.
	v) Organizing Workshops/ Seminars/Training	Project Based	100% assistance.
	a) International Level	Rs. 7.50 lakh per event	100% assistance subject to a maximum of Rs.40 lakh.
	b) National Level	Rs. 5.00 lakh per event	100% of cost per event of two days.
	c) State Level	Rs. 3.00 lakh per event	100% of cost per event of two days.
	d) District Level		
B. 5	Pest and disease management of bamboo	Rs. 400/ha	50% of cost subject to a maximum of Rs. 200/- per ha, limited to 2.00 ha per beneficiary
B. 6	Creation of Water resources		
	i) Community tanks/on farm ponds/on farm water reservoirs with use of plastic/RCC lining	Rs. 20.00 lakh in plain areas and Rs. 25.00 lakh/ unit for Hilly areas.	100% of cost to irrigate 10 ha of command area, with either use of minimum 300 micron plastic films or RCC lining, owned & managed by a community/ farmer group. Cost for non-lined ponds/ tanks (only in black cotton soils) will be 30% less. Assistance under NBM will be restricted to the cost of plastic/RCC lining.
	ii) Water harvesting system for individuals- for storage of water in 20mx20mx3m ponds/ wells @ Rs.100/- cum	Rs. 1.50 lakh/unit in plain areas and Rs. 1.80 lakh/unit in hilly areas	50% of cost including plastic/RCC lining. Cost for non-lined ponds/ tanks (only in black cotton soils) will be 30% less. For smaller size of the ponds/dug wells, cost will be admissible on pro rata basis depending upon the command area. Maintenance will be ensured by the beneficiary.
C.	INNOVATIVE INTERVENTIONS IN BAMBOO		
	i). Innovative Interventions	Project Based	100% assistance
D.	INTEGRATED POST HARVEST MANAGEMENT		
	i). Post harvest storage and treatment facilities for bamboo	Rs. 25.00 lakh	40% of cost as credit linked back ended subsidy.
E.	ESTABLISHMENT OF MARKETING INFRASTRUCTURE		
E. 1	(i) Bamboo Wholesale Retail Markets near Villages	Rs. 25.00 lakh per unit	Credit linked back-ended subsidy @ 35% of the capital cost of project in general areas and 50% in case of Hilly & Scheduled areas for individual entrepreneurs.
E. 2	Bamboo Bazaars	Rs. 48.00 lakhs/unit	Credit linked back-ended subsidy @ 35% of the capital cost of project in general areas and 50% in case of Hilly & Scheduled areas, per beneficiary.
E. 3	Retail Outlets (Showrooms) (Nos.)	Rs. 60.00 lakhs/unit.	Credit linked back-ended subsidy @ 35% of the capital cost of project in general areas and 50% in case of Hilly & Scheduled areas, per beneficiary.
E. 4	Retail outlet near village	Rs. 10.00 lakh per unit	Credit linked back-ended subsidy @ 35% of the capital cost of project in general areas and 50% in case of Hilly & Scheduled areas, per beneficiary.

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E. 5	Participation in Domestic Trade Fairs / Exhibition etc.	8.00 lakh / event	100% of cost for a maximum of 27 participants in a year on all India basis.
E. 6	Participation in International Trade Fairs / Exhibition etc.	24.00 lakh / event	100% of cost for a maximum of 30 participants in a year on all India basis.
F. IMPLEMENTATION MONITORING MECHANISM			
F. 1	National Bamboo Cell		
	a) Evaluation and Monitoring	Project Based	100% of cost
	b) Bamboo Technical Support Group	Project Based	Subject to a ceiling of Rs. 50.00 lakh / annum / state.
	c) Colored Brochures and Leaflets	Project Based	100% of cost.
	d) Promotional campaigns through Electronic/ Audio-visual Media/ Newspapers	Project Based	100% cost.
	e) Database Generation & Management (Information, Web Based Database)	Project Based	100% of cost to Central / State level institution/ ICAR / ICFRE etc.
F. 2	Baseline survey	Rs. 100.00 lakh for large states, Rs. 50.00 lakh for small states and Rs. 25.00 lakh for very small states/ UTs.	100% of cost as one time grant on survey related activities.
F. 3	Mission management and administration costs.	Project Based	Up to 5.0% of the project cost.

* Cost norms means upper limit of cost for calculation of subsidy.

Note: The release of back ended subsidy need not be credit linked for the institutions like Public Sector Units, Panchayats, Cooperatives, Registered Societies / Trusts and Public limited Companies, provided they can meet the remaining share of the project cost, out of their own resources.

Annexure-I concluded

**Annexure referred to in reply to part (d) of the Lok Sabha Unstarred Question
Dy. No. 1489 due for answer on 03.05.2016 regarding 'Bamboo Cultivation'**

Total physical achievement of major components during 2006-07 to 2015-16 under NABM- MIDH (till 31.03.2016)												
	Description	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	Total
1	Plantation in forest area (in ha.)	17805	41715	18499	17673	27009	21822	31819	39306	5644	12297	233589
2	Plantation in Non-forest area (in ha.)	8915	14938	6719	10690	14679	19181	12265	18647	6059	3445	115538
3	Plantation in non-forest on Government land						729	988	1713	0	0	3430
4	Plantation in non-forest with Drip Irrigation									370	4500	4870
5	Improvement of Existing Stock (in ha.)	7552	18894	7653	5370	9148	6108	6352	15329	3362	8210	87978
6	Training of Farmers within state (in nos.)	4147	17005	5471	1548	2917	3049	3177	2149	3166	8331	50960
7	Training of Farmers Outside State (in nos.)	491	2746	1372	538	942	908	544	927	415	320	9203
8	Training of field functionaries (nos.)	1034	2816	912	245	729	387	555	692	1141	4120	12631
9	Nurseries (in nos.)	457	489	219	25	4	41	65	107	23	27	1457
10	Workshop/Seminars -International / National Level (nos.)			1		1	1	1	0	3	3	10
11	Workshop/Seminars-State Level (nos.)	10	15	14	6	5	11	7	16	10	5	99
12	Workshop/Seminars-District Level (nos.)	58	256	107	29	50	36	69	81			686
13	Pest and Disease Management (ha.)	15235	23450	3050	16498	8222	12513	2060	3272	500	890	85690
14	Micro-irrigation (ha)	1450	1442	80		1685	1500	251	316			6724
15	Demonstration of Technology (in nos)	112	411	169	21	71	68	25	27	37	76	1017
16	Post Harvest Storage & Treatment Facilities		3	5	1	3	4	5	4	6	9	40
17	Bamboo Wholesale & Retail Markets near village (in nos.)		5	0	5	6	1	6	13	3		39
18	Bamboo Bazaar (in nos.)		2	2	2	3	7	9	10	2	3	40
19	Retail outlets (in nos.)			1	1	4	3	3	4	10	2	28
20	Participation in Domestic Trade Fairs (in nos.)		14	6	9	7	14	20	32	18	9	129

**Annexure referred to in reply to part (d) of the Lok Sabha Unstarred Question
Dy. No. 1489 due for answer on 03.05.2016 regarding 'Bamboo Cultivation'**

Total physical target of major components during 2006-07 to 2015-16 under NABM-MIDH												
S. No	Description	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	Total
1	Plantation in forest area (in ha.)	19555	40324	22533	19153	32888	25329	37623	42658	8240	17258	265561
2	Plantation in Non-forest area (in ha.)	9915	19488	10940	12203	14791	24790	16444	21499	7885	7640	145595
3	Plantation in non-forest on Government land	0	0	0	0	0	2229	1156	1780	0	0	5165
4	Plantation in non-forest areas (in ha.) With Drip Irrigation	0	0	0	0	0	0	0	0	390	5700	6090
5	Improvement of Existing Stock (in ha.)	6724	20609	10076	5552	13218	8110	9196	16687	4783	13747	108702
6	Training of Farmers within state (in nos.)	4215	20330	8373	2102	3265	3923	3336	3205	5710	10365	64824
7	Training of Farmers Outside State (nos)	561	4374	2234	1034	1562	1534	686	1242	890	1060	15177
8	Training of field functionaries (no.)	1156	3183	1270	580	1166	578	800	1295	2978	8703	21709
9	Nurseries (in nos.)	541	533	264	53	16	43	88	183	28	66	1815
10	Workshop/Seminars -International / National Level (nos.)	0	0	1	0	1	1	2	1	4	7	17
11	Workshop/Seminars-State Level (nos.)	11	19	21	12	13	22	17	19	25	16	175
12	Workshop/Seminars-District Level (nos.)	65	303	177	62	88	60	113	106	0	0	974
13	Pest and Disease Management (ha.)	15340	27411	7425	18735	10650	17480	3250	3770	5150	1620	110831
14	Micro-irrigation (ha)	1450	1739	610	0	1738	1710	450	347	0	0	8044
15	Demonstration of Technology (nos.)	117	651	280	202	70	107	40	96	94	244	1901
16	Post Harvest Storage & Treatment Facilities	0	4	14	6	8	13	7	7	11	12	82
17	Bamboo Wholesale & Retail Markets near village (in nos.)	0	5	10	8	24	13	15	18	7	6	106
18	Bamboo Bazaar (in nos.)	0	2	5	3	14	12	16	14	8	5	79
19	Retail outlets (in nos.)	0	0	5	1	5	4	7	4	18	9	53
20	Participation in Domestic Trade Fairs (in nos.)	0	17	16	17	9	18	22	34	36	20	189
