

No fund has been released under IAY scheme during 2019-20 to the State of Andhra Pradesh as it has been decided not to release any funds in advance for IAY houses to any States/UTs *w.e.f.* 01.04.2018.

The Government of India launched Swatch Bharat Mission-Gramin (SBM-G) to make rural India Open Defecation Free (ODF). State of Andhra Pradesh has been declared ODF as per Management Information System (MIS) of SBM-G Scheme.

**Construction of roads under PMGSY using green technology**

2219. PROF. M.V. RAJEEV GOWDA: Will the Minister of RURAL DEVELOPMENT be pleased to state:

(a) the details of roads sanctioned, work-in-progress and completed using green technology under the Pradhan Mantri Gram Sadak Yojana (PMGSY), State-wise and year-wise for the last three years;

(b) the details of plastic waste used under PMGSY for construction of roads through green technology, including the quantity in kilogram terms;

(c) the details of cost of constructing roads through green and other new technologies, including but not limited to cold mix technology and plastic waste, in per kilometer terms; and

(d) whether Government plans to increase the use of these technologies, the details thereof?

THE MINISTER OF RURAL DEVELOPMENT (SHRI NARENDRA SINGH TOMAR): (a) The details of roads sanctioned, work-in-progress and completed, using green technology under the Pradhan Mantri Gram Sadak Yojana (PMGSY), State-wise and year-wise during the last three years are given in the Statement (*See* below).

(b) As reported by the State Governments, 13,370 Km of roads have been completed under PMGSY using 58,561 Kg (approximately) of Waste plastic.

(c) Ministry has not fixed any average cost for PMGSY works and the amount is sanctioned based on the specific Detailed Project Report (DPR) of each road prepared by the State Government after thorough examination of factors like terrain, type of soil, rainfall and traffic following the technical specifications laid down in Ministry of Rural

Development Book of Specifications, Rural Roads Manual, other guidelines published by Indian Roads Congress and scrutinized by the State Technical Agencies. The average cost of construction/Km varies from State to State due to material cost, labour wages as per State specific Schedule of Rates, cartage of materials, location of site and specific provisions made in the DPRS.

In respect of soil stabilization, there is a reduction of ₹ 1.50 to 4 Lakhs/Km depending on the geography, transportation of aggregates and type of soil stabilized. Waste plastic of about 400 Kg (Approximately) can be re-utilised per Km as a replacement of about 6 to 8% of bitumen requirement. Though this does not directly reduce the average cost per kilometre, it would certainly result in some savings *via* the decrease in the disposal cost of the waste plastic and environmental benefits.

In respect of Cold Mix, there is an increase of ₹ 2 to ₹ 3.50 lakhs/Km depending on the geography of the area and transportation of Cold emulsion. However, this technology helps in reduction in carbon foot print due to non heating of aggregates and bitumen and prolongs the working season in certain geographies.

(d) State Governments have been requested to propose minimum 15% of total length of annual proposals under new technologies such as Cement stabilization, Lime stabilization, Cold mix, Waste plastics, Cell filled concrete, Paneled cement concrete pavement, Fly ash etc. in order to reduce the cost of construction and promoting green technologies. There is no proposal to further increase the mandatory minimum new technology length to be proposed by the State in their annual proposals.

**Statement***State-wise/Year-wise details of roads sanctioned, work-in-progress and completed, using green technology under PMGSY*

Sl. No.	State	Total Sanctioned Length (in km)			Length Achieved (in km)*			Length in progress (in km)*
		2016-17	2017-18	2018-19	2016-17	2017-18	2018-19	
1.	Andaman and Nicobar Islands	0	2.955	4.19	0	0	0	7.14
2.	Andhra Pradesh	0	161.711	373.515	24.251	21.2	34.937	513.94
3.	Arunachal Pradesh	398.595	42.88	1513.61	84.313	39.18	454.189	1689.56
4.	Assam	516.762	2472.45	707.599	133.404	154.131	1489.195	2314.19
5.	Bihar	2323.708	908.458	359.026	104.535	119.775	1597.258	2000.47
6.	Chhattisgarh	419.788	1172.281	986.297	31.307	117.315	498.099	2086.12
7.	Gujarat	26.51	14.39	0	62.38	54.296	18.48	0.00
8.	Haryana	51.24	0	0	61.362	65.277	12.4	0.00
9.	Himachal Pradesh	797.46	325.528	674.125	14.76	71.375	145.032	1576.23
10.	Jammu and Kashmir	243.01	119.87	755.332	0	6.16	94.97	1032.32
11.	Jharkhand	681.012	1911.978	517.46	98.792	348.795	1220.257	1381.311
12.	Karnataka	0	0	0	253.048	12.645	7.91	30.30
13.	Kerala	263.412	173.865	55.842	29.535	169.703	188.404	198.44
14.	Madhya Pradesh	1215.499	2786.99	0	796.146	1169.387	2077.066	1449.66

15.	Maharashtra	0	96.475	0	489.791	101.94	40.153	136.49
16.	Manipur	0	521.39	294.33	74.87	24.787	201.19	720.26
17.	Meghalaya	0	266.593	954.977	169.47	153.774	110.623	1700.16
18.	Mizoram	119.59	122.43	199.09	105.213	6.358	70.639	485.87
19.	Nagaland	0	217.74	261.08	0	0	70.4	408.42
20.	Odisha	2899.172	2121.276	1437.895	562.129	848.621	2768.095	3295.90
21.	Punjab	0	0	0	51.71	268.39	38.91	38.90
22.	Rajasthan	991.974	812.091	0	184.55	779.569	793.885	127.70
23.	Sikkim	344.44	605.77	12.56	88.927	0	145.65	766.50
24.	Tamilnadu	252.063	472.388	504.186	341.251	360.645	247.235	798.62
25.	Tripura	104.39	45.37	6.192	47.516	17.937	50.12	165.32
26.	Uttar Pradesh	1639.601	63.34	184.495	188.278	524.291	754.148	392.06
27.	Uttarakhand	171.628	328.717	2760.905	88.03	36.375	195.093	3072.84
28.	West Bengal	1682.901	1382.987	515.716	5.5	698.265	1203.168	1697.39
29.	Telangana	24.258	561.004	0	4.1	22.387	60.952	541.90
GRAND TOTAL		15167.013	17710.93	13078.42	4095.168	6192.578	14588.458	28627.99

\* including length sanctioned during previous years.

Written Answers to

[6 December, 2019]

Unstarred Questions

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