

## 11<sup>th</sup> Five Year Plan – Why it may not achieve the irrigation targets

In the following table we have given the state wise figures for proposed outlay (Rs Crores) and expected irrigation potential to be created (thousand ha) for Major, Medium and ERM (Extension, Renovation, Modernisation) Projects, as per the working group report for the 11<sup>th</sup> Five Year Plan, chaired by the Secretary, Union Ministry for Water Resources. The figures are given separately for Completed, Ongoing and New projects for Major, Medium and ERM projects. See some notes at the end of the table about these figures.

SN	State	Category	Major projects		Medium Projects		ERM		Total	
			Outlay Proposed	Expected Irrigation Pot. Created	Outlay Proposed	Expected Irrigation Pot. Created	Outlay Proposed	Expected Irrigation Pot. Created	Outlay Proposed	Expected Irrigation Pot. Created
1	AP	Completed	229.791	46.61	157.166	4.8	118.553	0	505.51	51.41
		Ongoing	26378	2778.983	487.264	83.82	936.74	42.38	27802.004	2905.183
		New	7250	105.22	109.7	10.67	2350	0	9709.7	115.89
		<b>Total</b>	<b>33857.79</b>	<b>2930.813</b>	<b>754.13</b>	<b>99.29</b>	<b>3405.293</b>	<b>42.38</b>	<b>38017.21</b>	<b>3072.483</b>
2	Arunachal	Completed	0	0	0	0	0	0	0	0
		Ongoing	0	0	0	0	0	0	0	0
		New	0	0	64.3	6.87	0	0	64.3	6.87
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>64.3</b>	<b>6.87</b>	<b>0</b>	<b>0</b>	<b>64.3</b>	<b>6.87</b>
3	Assam	Completed	34.13	0	7.4309	0	0	0	41.56	0
		Ongoing	207.235	76.658	21.014	7.382	32.919	21.541	261.168	105.581
		New	0	0	158.48	19.09	0	0	158.48	19.09
		<b>Total</b>	<b>241.365</b>	<b>76.658</b>	<b>186.9249</b>	<b>26.472</b>	<b>32.919</b>	<b>21.541</b>	<b>461.208</b>	<b>124.671</b>
4	Bihar	Completed	15.71	0	15.44	0	0	0	31.15	0
		Ongoing	1883.71	596.89	44.14	5.84	355.13	187	2282.98	789.73
		New	1274.66	596.14	0	0	23.55	12.85	1298.21	608.99
		<b>Total</b>	<b>3174.08</b>	<b>1193.03</b>	<b>59.58</b>	<b>5.84</b>	<b>378.68</b>	<b>199.85</b>	<b>3612.34</b>	<b>1398.72</b>
5	CG	Completed	0	0	3.8886	0.2	20.4395	0	24.3281	0.2
		Ongoing	164.64	96.46	112.92	42.73	0	0.6	277.56	139.79
		New	559.85	183.69	899.8	128.04	0	0	1459.65	311.73
		<b>Total</b>	<b>724.49</b>	<b>280.15</b>	<b>1016.608</b>	<b>170.97</b>	<b>20.4395</b>	<b>0.06</b>	<b>1761.538</b>	<b>451.72</b>
6	Goa	Completed	0	0	0	0	2.37	0	2.37	0
		Ongoing	136.668	13.999	0	0	0	0	136.668	13.999
		New	0	0	0	0	0	0	0	0
		<b>Total</b>	<b>136.668</b>	<b>13.999</b>	<b>0</b>	<b>0</b>	<b>2.37</b>	<b>0</b>	<b>139.038</b>	<b>13.999</b>
7	Gujarat	Completed	0.5	0	9.43	6.38	0	0	9.93	6.38
		Ongoing	12742.72	0	70.79	26.15	425.4	46.87	13238.91	73.02
		New	2502.5	0	51.08	6.45	1283.2	147.62	3836.78	154.07
		<b>Total</b>	<b>15245.72</b>	<b>0</b>	<b>131.3</b>	<b>38.98</b>	<b>1708.6</b>	<b>194.49</b>	<b>17085.62</b>	<b>233.47</b>
8	Haryana	Completed	68.79	0	0	0	55.36	0	124.15	0
		Ongoing	54.77	0	0	0	80.42	0	135.19	0
		New	204.39	0	20	0	150	0	374.39	0
		<b>Total</b>	<b>327.95</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>285.78</b>	<b>0</b>	<b>633.73</b>	<b>0</b>
9	HP	Completed	0	0	0	0	0	0	0	0
		Ongoing	85.337	12.732	95.12	12.38	0	0	180.457	25.112
		New	0	0	0	0	0	0	0	0
		<b>Total</b>	<b>85.337</b>	<b>12.732</b>	<b>95.12</b>	<b>12.38</b>	<b>0</b>	<b>0</b>	<b>180.457</b>	<b>25.112</b>
10	J&K	Completed	0	0	4.89	0.79	6.28	0	11.17	0.79
		Ongoing	0	0	55.25	25.6	94.287	7.6	149.537	33.2
		New	0	0	109.435	0	15.665	0	125.1	0
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>169.575</b>	<b>26.39</b>	<b>116.232</b>	<b>7.6</b>	<b>285.807</b>	<b>33.99</b>
11	Jharkhand	Completed	0	0	15.27	0	0	0	15.27	0
		Ongoing	2274.27	341.9	283.59	62.75	0	0	2557.86	404.65
		New	474.39	7.81	72.5	3.47	115	19.7	661.89	30.98
		<b>Total</b>	<b>2748.66</b>	<b>349.71</b>	<b>371.36</b>	<b>66.22</b>	<b>115</b>	<b>19.7</b>	<b>3235.02</b>	<b>435.63</b>
12	Karnataka	Completed	0	0	36.46	0.72	0	0	36.46	0.72
		Ongoing	4856.4	401.2	502.2	16.1	95.76	0.1	5454.36	417.4
		New	218	22.26	1612.4	0	0	0	1830.4	22.26
		<b>Total</b>	<b>5074.4</b>	<b>423.46</b>	<b>2151.06</b>	<b>16.82</b>	<b>95.76</b>	<b>0.1</b>	<b>7321.22</b>	<b>440.38</b>

SN	State	Category	Major projects		Medium Projects		ERM		Total	
			Outlay Proposed	Expected Irrigation Pot. Created	Outlay Proposed	Expected Irrigation Pot. Created	Outlay Proposed	Expected Irrigation Pot. Created	Outlay Proposed	Expected Irrigation Pot. Created
13	Kerala	Completed	69.37	0	0	0	0	0	69.37	0
		Ongoing	266.7	0	251.13	0	36.2	0	554.03	0
		New	44.93	0	10.3	0	0	0	55.23	0
		<b>Total</b>	<b>381</b>	<b>0</b>	<b>261.43</b>	<b>0</b>	<b>36.2</b>	<b>0</b>	<b>678.63</b>	<b>0</b>
14	MP	Completed	28.05	0	16.12	0	0.74	0	44.91	0
		Ongoing	4791.82	447.33	266.97	79.42	168.89	3.38	5227.68	530.13
		New	796.43	0	295.5	16	0	0	1091.93	16
		<b>Total</b>	<b>5616.3</b>	<b>447.33</b>	<b>578.59</b>	<b>95.42</b>	<b>169.63</b>	<b>3.38</b>	<b>6364.52</b>	<b>546.13</b>
15	Maharashtra	Completed	501.3	64.5	187.34	7.38	0	0	688.64	71.88
		Ongoing	13337.19	1234.29	3334.13	190.43	120.22	8.28	16791.54	1433
		New	355.08	13.73	1333.12	52.53	0	0	1688.2	66.26
		<b>Total</b>	<b>14193.57</b>	<b>1312.52</b>	<b>4854.59</b>	<b>250.34</b>	<b>120.22</b>	<b>8.28</b>	<b>19168.38</b>	<b>1571.14</b>
16	Manipur	Completed	0	0	0	0	0	0	0	0
		Ongoing	143	29	40.25	7.55	16.95	16.71	200.2	53.26
		New	16	12	29.67	19.73	0.36	0.4	46.03	32.13
		<b>Total</b>	<b>159</b>	<b>41</b>	<b>69.52</b>	<b>27.28</b>	<b>17.31</b>	<b>17.11</b>	<b>246.23</b>	<b>85.39</b>
17	Meghalaya	Completed	0	0	0	0	0	0	0	0
		Ongoing	0	0	56.36	0	0	0	56.36	0
		New	0	0	0	0	0	0	0	0
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>56.36</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>56.36</b>	<b>0</b>
18	Nagaland	Completed	0	0	0	0	0	0	0	0
		Ongoing	0	0	50	7.54	0	0	50	7.54
		New	0	0	0	0	0	0	0	0
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>7.54</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>7.54</b>
19	Orissa	Completed	10	0	5	0	0	0	15	0
		Ongoing	2031.78	254.5	258.04	62.25	45.23	63.43	2335.05	380.18
		New	5078.08	20	246.48	25.68	398.88	0	5723.44	45.68
		<b>Total</b>	<b>7119.86</b>	<b>274.5</b>	<b>509.52</b>	<b>87.93</b>	<b>444.11</b>	<b>63.43</b>	<b>8073.49</b>	<b>425.86</b>
20	Punjab	Completed	0	0	0	0	55.05	0	55.05	0
		Ongoing	791.83	0	12.03	0	107.67	0	911.53	0
		New	21.43	0	0	0	261.175	0	282.6	0
		<b>Total</b>	<b>813.26</b>	<b>0</b>	<b>12.03</b>	<b>0</b>	<b>423.895</b>	<b>0</b>	<b>1249.18</b>	<b>0</b>
21	Rajasthan	Completed	232.92	0	4.1	0	190.2	0	427.22	0
		Ongoing	254.66	177	310.73	42.7	281.99	38.75	847.38	258.45
		New	937.69	278	0	13.6	0	0	937.69	291.6
		<b>Total</b>	<b>1425.27</b>	<b>455</b>	<b>314.83</b>	<b>56.3</b>	<b>472.19</b>	<b>38.75</b>	<b>2212.29</b>	<b>550.05</b>
22	Tamil Nadu	Completed	0	0	0	0	0	0	0	0
		Ongoing	0	0	7.4	0	10.47	0	17.87	0
		New	0	0	0	0	0	0	0	0
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>7.4</b>	<b>0</b>	<b>10.47</b>	<b>0</b>	<b>17.87</b>	<b>0</b>
23	Tripura	Ongoing	0	0	56.829	8.968	0	0	56.829	8.968
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>56.829</b>	<b>8.968</b>	<b>0</b>	<b>0</b>	<b>56.829</b>	<b>8.968</b>
24	Uttaranchal	Completed	0	0	0	0	0	0	0	0
		Ongoing	0	0	0	0	0	0	0	0
		New	419.38	0	0	0	0	0	419.38	0
		<b>Total</b>	<b>419.38</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>419.38</b>	<b>0</b>
25	UP	Completed	20.83	0	0	0	28.64	0	49.47	0
		Ongoing	2516.94	713.57	0	0	609.525	510.64	3126.465	1224.21
		New	209.041	247.26	72.29	13.77	357.08	748.36	638.411	1009.39
		<b>Total</b>	<b>2746.811</b>	<b>960.83</b>	<b>72.29</b>	<b>13.77</b>	<b>995.245</b>	<b>1259</b>	<b>3814.346</b>	<b>2233.6</b>
26	WB	Completed	0	0	11.4	12	0	0	11.4	12
		Ongoing	609.5	242.2	9.6812	0	383.45	96	1002.63	338.2
		New	195.1	0	9	0	57.76	0	261.86	0
		<b>Total</b>	<b>804.6</b>	<b>242.2</b>	<b>30.08</b>	<b>12</b>	<b>441.21</b>	<b>96</b>	<b>1275.89</b>	<b>350.2</b>

(Total figures on next page)

### Total allocations and expected irrigation in the 11<sup>th</sup> Plan

	Category	Major projects		Medium Projects		ERM		Total	
		Outlay Proposed	Expected Irrigation Pot. Created	Outlay Proposed	Expected Irrigation Pot. Created	Outlay Proposed	Expected Irrigation Pot. Created	Outlay Proposed	Expected Irrigation Pot. Created
<b>Total</b>	Completed	<b>1211.391</b>	<b>111.11</b>	<b>473.936</b>	<b>32.27</b>	<b>477.633</b>	<b>0</b>	<b>2162.958</b>	<b>143.38</b>
	Ongoing	<b>73527.17</b>	<b>7416.712</b>	<b>6325.838</b>	<b>681.61</b>	<b>3801.251</b>	<b>1043.281</b>	<b>83654.258</b>	<b>9141.603</b>
	New	<b>20556.951</b>	<b>1486.11</b>	<b>5094.055</b>	<b>315.9</b>	<b>5012.67</b>	<b>928.93</b>	<b>30663.671</b>	<b>2730.94</b>
<b>Grand Total</b>		<b>95295.512</b>	<b>9013.932</b>	<b>11893.829</b>	<b>1029.78</b>	<b>9291.554</b>	<b>1972.211</b>	<b>116480.895</b>	<b>12015.923</b>

As noted elsewhere in this issue of *DRP*, the 11<sup>th</sup> Plan was cleared by the National Development Council meeting on Dec 19, 2007 and one of the major pillars of the plan is to achieve agricultural growth rate of 4%. And achieving that growth rate is crucially dependent on increasing the area under irrigation. It is clear from official data (see the cover story in *Dams, Rivers & People*, Sept-Oct 2007) even after spending 100 000 crores over the twelve years from 1991-92 to 2003-04, there has been zero addition to the net irrigated areas by major and medium (M&M) irrigation projects. On the contrary, there has been a massive reduction of 3.14 m ha in irrigation from such projects in this period. And yet the Working Group Report for the 11<sup>th</sup> Plan continues to propose massive allocation of Rs 133 000 crores for M&M irrigation projects.

The total proposed allocation in the above table, however, comes to Rs 116480, because some of the allocations for big irrigation are sectoral and hence will not reflect in project wise figures. Secondly, some of the states and Union Territories are missing in the above table, and their allocations would be additional. The above allocations should also be considered provisional as these are the recommendations of the working group and it is not clear to what extent the Planning Commission has included these in the Plan cleared by NDC. That plan is not yet public as we write this.

There are some additional riders about the figures given in these tables. In some of the projects, the allocations are done, but corresponding addition in irrigation are not specified. For example, in case of the controversial Sardar Sarovar Project, the working group has recommended that there should be an allocation for 12711.47 crores during the 11<sup>th</sup> Plan, the corresponding

figure for addition of irrigated areas gives the figure of zero. It seems the working group does not want to hazard how much area will be added by SSP during the 11<sup>th</sup> Plan after that massive doze of finances. Even without adding the irrigation likely to be added by such projects for which allocations are being made, the above table says that the plan will add 12.02 million ha of additional irrigation during the 11<sup>th</sup> Plan. The authors of working group however, decided to be slightly more modest and said that the likely addition is going to be 9 million ha, considering the gaps in the past between targets and achievements.

In spite of these riders, we can safely say that the 11<sup>th</sup> plan is not likely to achieve its objective of adding 9 million ha from M&M irrigation projects, nor achieve the projected 4% growth rate in agriculture. This is because the planners seemed to have no lessons from the past experience of such projects. As noted earlier, the real life line of India's irrigation sector, as also of the water sector is groundwater and this lifeline can be sustained only by harvesting rain where it falls to ensure its optimum use storage and recharge nearest to the occurrence of the rainfall. M&M irrigation projects seek to achieve this at the farthest from the site of occurrence of the rainfall.

In the 9<sup>th</sup> and the 10<sup>th</sup> plan (as in the past), over 80% of the planned allocation for irrigation was allocated for M&M projects. These plans have failed to add any irrigation from M&M projects, as we have shown from official documents. That was one of the major reasons why the agricultural growth rate in these plans remained around 2%. We hope, for the sake of the millions of farmers that 11<sup>th</sup> Plan performance is better than this. Will it be?

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**In spite of these riders, we can safely say that the 11<sup>th</sup> plan is not likely to achieve its objective of adding 9 million ha from major and medium irrigation projects, nor achieve the projected 4% growth rate in agriculture. As the planners seem to have no lessons from the past experience of such projects.**

**In the 9<sup>th</sup> and the 10<sup>th</sup> plan, over 80% of the planned outlay for irrigation was allocated for major and medium projects. These plans have failed to add any irrigation from M&M projects, as we have shown from official documents. That was one of the major reasons why the agricultural growth rate in these plans remained around 2%. We hope, for the sake of the millions of farmers that 11<sup>th</sup> Plan performance is better than this. Will it be?**