

STATEMENT OF BUDGET ESTIMATES

DEPARTMENT OF SPACE

Demand No. 93-Department of Space

A. The Budget allocations, net of recoveries, are given below:-

(Rs. in crores)

	Major Head	1997-98 Budget			1997-98 Revised			1998-99 Budget		
		Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total
	Revenue	847.94	177.60	1025.54	732.09	204.29	936.38	1184.81	221.43	1406.24
	Capital	142.06	...	142.06	117.91	...	117.91	196.19	...	196.19
	Total	990.00	177.60	1167.60	850.00	204.29	1054.29	1381.00	221.43	1602.43
1. Secretariat - Economic Services	3451	0.02	2.43	2.45	0.02	2.98	3.00	0.02	3.19	3.21
Space Research										
<i>Rocket Development</i>										
2. Geo -Synchronous Launch Vehicle	3402	123.62	...	123.62	97.29	...	97.29	72.30	...	72.30
	5402	23.93	...	23.93	17.15	...	17.15	11.45	...	11.45
	<i>Total</i>	<i>147.55</i>	<i>...</i>	<i>147.55</i>	<i>114.44</i>	<i>...</i>	<i>114.44</i>	<i>83.75</i>	<i>...</i>	<i>83.75</i>
3. <i>GSLV MK-II Development.</i>	3402	<i>0.30</i>	<i>...</i>	<i>0.30</i>	<i>...</i>	<i>...</i>	<i>...</i>	<i>0.01</i>	<i>...</i>	<i>0.01</i>
	5402	<i>0.20</i>	<i>...</i>	<i>0.20</i>	<i>...</i>	<i>...</i>	<i>...</i>	<i>0.01</i>	<i>...</i>	<i>0.01</i>
	<i>Total</i>	<i>0.50</i>	<i>...</i>	<i>0.50</i>	<i>...</i>	<i>...</i>	<i>...</i>	<i>0.02</i>	<i>...</i>	<i>0.02</i>
4. Cryogenic Upper Stage (CUS) Project	3402	34.97	...	34.97	31.40	...	31.40	36.80	...	36.80
	5402	12.31	...	12.31	11.86	...	11.86	8.55	...	8.55
	<i>Total</i>	<i>47.28</i>	<i>...</i>	<i>47.28</i>	<i>43.26</i>	<i>...</i>	<i>43.26</i>	<i>45.35</i>	<i>...</i>	<i>45.35</i>
5. C-20 Cryogenic Stage Development.	3402	4.00	...	4.00	1.50	...	1.50	0.50	...	0.50
	5402	1.00	...	1.00	0.50	...	0.50	0.50	...	0.50
	<i>Total</i>	<i>5.00</i>	<i>...</i>	<i>5.00</i>	<i>2.00</i>	<i>...</i>	<i>2.00</i>	<i>1.00</i>	<i>...</i>	<i>1.00</i>
6. Pollar Satellite Launch Vehical - Continuation Project	3402	78.60	...	78.60	95.42	...	95.42	112.23	...	112.23
	5402	...	...	...	...	...	...	10.00	...	10.00
	<i>Total</i>	<i>78.60</i>	<i>...</i>	<i>78.60</i>	<i>95.42</i>	<i>...</i>	<i>95.42</i>	<i>122.23</i>	<i>...</i>	<i>122.23</i>
7. Vikram Sarabhai Space Centre	3402	43.42	55.96	99.38	48.55	62.07	110.62	46.25	67.68	113.93
	5402	14.32	...	14.32	14.78	...	14.78	17.19	...	17.19
	<i>Total</i>	<i>57.74</i>	<i>55.96</i>	<i>113.70</i>	<i>63.33</i>	<i>62.07</i>	<i>125.40</i>	<i>63.44</i>	<i>67.68</i>	<i>131.12</i>
8. Indian Space Research Organisation - Inertial Systems Unit(IISU).	3402	2.74	...	2.74	3.68	...	3.68	3.87	...	3.87
	5402	1.76	...	1.76	1.63	...	1.63	0.51	...	0.51
	<i>Total</i>	<i>4.50</i>	<i>...</i>	<i>4.50</i>	<i>5.31</i>	<i>...</i>	<i>5.31</i>	<i>4.38</i>	<i>...</i>	<i>4.38</i>
9. Sriharikota Centre	3402	18.52	18.21	36.73	24.40	21.67	46.07	34.72	24.42	59.14
	5402	6.18	...	6.18	10.16	...	10.16	8.24	...	8.24
	<i>Total</i>	<i>24.70</i>	<i>18.21</i>	<i>42.91</i>	<i>34.56</i>	<i>21.67</i>	<i>56.23</i>	<i>42.96</i>	<i>24.42</i>	<i>67.38</i>
10. ISRO Telemetry, Tracking & Command Network	3402	3.93	7.70	11.63	5.44	8.73	14.17	5.76	9.87	15.63
	5402	4.44	...	4.44	6.05	...	6.05	5.38	...	5.38
	<i>Total</i>	<i>8.37</i>	<i>7.70</i>	<i>16.07</i>	<i>11.49</i>	<i>8.73</i>	<i>20.22</i>	<i>11.14</i>	<i>9.87</i>	<i>21.01</i>

11. Liquid Propulsion Systems Centre	3402	8.95	14.62	23.57	11.62	16.50	28.12	15.17	18.46	33.63
	5402	6.78	...	6.78	9.11	...	9.11	7.17	...	7.17
	<i>Total</i>	<i>15.73</i>	<i>14.62</i>	<i>30.35</i>	<i>20.73</i>	<i>16.50</i>	<i>37.23</i>	<i>22.34</i>	<i>18.46</i>	<i>40.80</i>
12. Second Launch Pad & Common Facilities	3402	5.00	...	5.00	0.25	...	0.25	5.00	...	5.00
	5402	5.00	...	5.00	0.75	...	0.75	45.00	...	45.00
	<i>Total</i>	<i>10.00</i>	<i>...</i>	<i>10.00</i>	<i>1.00</i>	<i>...</i>	<i>1.00</i>	<i>50.00</i>	<i>...</i>	<i>50.00</i>
<i>Total - Rocket Development</i>		<i>399.97</i>	<i>96.49</i>	<i>496.46</i>	<i>391.54</i>	<i>108.97</i>	<i>500.51</i>	<i>446.61</i>	<i>120.43</i>	<i>567.04</i>
<i>Satellite Development</i>										
13. Indian Remote Sensing Satellite (IRS)continuation.	3402	16.14	...	16.14	9.48	...	9.48	1.60	...	1.60
	5402	0.03	...	0.03	...	...	...	...	...	...
	<i>Total</i>	<i>16.17</i>	<i>...</i>	<i>16.17</i>	<i>9.48</i>	<i>...</i>	<i>9.48</i>	<i>1.60</i>	<i>...</i>	<i>1.60</i>
14. IRS P2/P3	3402	0.01	...	0.01	0.01	...	0.01	...	...	...
15. IRS P4(Oceansat)	3402	22.33	...	22.33	14.99	...	14.99	13.18	...	13.18
	5402	2.67	...	2.67	1.34	...	1.34	1.82	...	1.82
	<i>Total</i>	<i>25.00</i>	<i>...</i>	<i>25.00</i>	<i>16.33</i>	<i>...</i>	<i>16.33</i>	<i>15.00</i>	<i>...</i>	<i>15.00</i>
16. IRS P5(cartosat)	3402	59.05	...	59.05	39.71	...	39.71	57.91	...	57.91
	5402	14.95	...	14.95	4.70	...	4.70	12.09	...	12.09
	<i>Total</i>	<i>74.00</i>	<i>...</i>	<i>74.00</i>	<i>44.41</i>	<i>...</i>	<i>44.41</i>	<i>70.00</i>	<i>...</i>	<i>70.00</i>
17. IRS P6 (Resourcesat)	3402	25.45	...	25.45	4.17	...	4.17	25.29	...	25.29
	5402	4.45	...	4.45	1.33	...	1.33	4.71	...	4.71
	<i>Total</i>	<i>29.90</i>	<i>...</i>	<i>29.90</i>	<i>5.50</i>	<i>...</i>	<i>5.50</i>	<i>30.00</i>	<i>...</i>	<i>30.00</i>
18. G-SAT-1	3402	14.03	...	14.03	14.00	...	14.00	10.90	...	10.90
	5402	...	...	...	...	...	...	...	...	...
	<i>Total</i>	<i>14.03</i>	<i>...</i>	<i>14.03</i>	<i>14.00</i>	<i>...</i>	<i>14.00</i>	<i>10.90</i>	<i>...</i>	<i>10.90</i>
19. G.SAT-2 & 3	3402	9.00	...	9.00	1.75	...	1.75	0.50	...	0.50
	5402	1.00	...	1.00	0.25	...	0.25	0.50	...	0.50
	<i>Total</i>	<i>10.00</i>	<i>...</i>	<i>10.00</i>	<i>2.00</i>	<i>...</i>	<i>2.00</i>	<i>1.00</i>	<i>...</i>	<i>1.00</i>
20. IRS-II Satellites	3402	0.10	...	0.10	...	...	...	0.01	...	0.01
21. Direct-To-Home Satellite (including Launch Services)	3402	9.00	...	9.00	0.01	...	0.01	0.01	...	0.01
	5402	1.00	...	1.00	...	...	...	...	...	...
	<i>Total</i>	<i>10.00</i>	<i>...</i>	<i>10.00</i>	<i>0.01</i>	<i>...</i>	<i>0.01</i>	<i>0.01</i>	<i>...</i>	<i>0.01</i>
22. ISRO Satellite Centre	3402	19.24	17.54	36.78	21.31	20.78	42.09	32.95	23.68	56.63
	5402	6.97	...	6.97	10.20	...	10.20	9.58	...	9.58
	<i>Total</i>	<i>26.21</i>	<i>17.54</i>	<i>43.75</i>	<i>31.51</i>	<i>20.78</i>	<i>52.29</i>	<i>42.53</i>	<i>23.68</i>	<i>66.21</i>
23. Laboratory for Electro-Optics System	3402	3.76	...	3.76	4.64	...	4.64	5.84	...	5.84
	5402	1.47	...	1.47	1.70	...	1.70	0.25	...	0.25
	<i>Total</i>	<i>5.23</i>	<i>...</i>	<i>5.23</i>	<i>6.34</i>	<i>...</i>	<i>6.34</i>	<i>6.09</i>	<i>...</i>	<i>6.09</i>
<i>Total - Satellite Development</i>		<i>210.65</i>	<i>17.54</i>	<i>228.19</i>	<i>129.59</i>	<i>20.78</i>	<i>150.37</i>	<i>177.14</i>	<i>23.68</i>	<i>200.82</i>
<i>Space Applications.</i>										
24. Space Applications Centre	3402	15.13	18.80	33.93	20.01	21.50	41.51	30.22	24.05	54.27
	5402	7.23	...	7.23	6.04	...	6.04	12.39	...	12.39
	<i>Total</i>	<i>22.36</i>	<i>18.80</i>	<i>41.16</i>	<i>26.05</i>	<i>21.50</i>	<i>47.55</i>	<i>42.61</i>	<i>24.05</i>	<i>66.66</i>
25. Development and Educational Communication Unit	3402	2.22	3.43	5.65	2.85	3.76	6.61	1.62	3.92	5.54
	5402	0.31	...	0.31	0.14	...	0.14	0.35	...	0.35

	<i>Total</i>	2.53	3.43	5.96	2.99	3.76	6.75	1.97	3.92	5.89
26. National Natural Resources Management System	3402	7.40	...	7.40	7.49	...	7.49	7.81	...	7.81
27. National Remote Sensing Agency	3402	8.26	7.74	16.00	8.92	9.85	18.77	7.36	8.16	15.52
28. Others	3402	9.15	...	9.15	9.76	...	9.76	7.98	...	7.98
	5402	6.04	...	6.04	4.41	...	4.41	1.63	...	1.63
	<i>Total</i>	15.19	...	15.19	14.17	...	14.17	9.61	...	9.61
<i>Total - Space Applications</i>		55.74	29.97	85.71	59.62	35.11	94.73	69.36	36.13	105.49
<i>Space Sciences</i>										
29. Physical Research Laboratory	3402	4.64	9.31	13.95	6.52	9.89	16.41	7.65	9.77	17.42
30. Others	3402	8.73	0.85	9.58	11.95	0.75	12.70	11.45	0.80	12.25
	5402	0.75	...	0.75	0.45	...	0.45	0.01	...	0.01
	<i>Total</i>	9.48	0.85	10.33	12.40	0.75	13.15	11.46	0.80	12.26
<i>Total - Space Sciences</i>		14.12	10.16	24.28	18.92	10.64	29.56	19.11	10.57	29.68
31. Other Programmes	3402	8.40	15.27	23.67	9.82	19.47	29.29	18.03	20.53	38.56
	5402	4.54	...	4.54	7.90	...	7.90	10.33	...	10.33
	<i>Total</i>	12.94	15.27	28.21	17.72	19.47	37.19	28.36	20.53	48.89
32. Investment in Public Enterprises- Antrix Corporation Limited	5402	0.25	...	0.25	...	...	...	...	...	...
<i>INSAT Operational</i>										
33. Master Control Facility	3252	1.82	5.74	7.56	2.55	6.34	8.89	2.36	6.90	9.26
	5252	7.49	...	7.49	5.86	...	5.86	7.53	...	7.53
	<i>Total</i>	9.31	5.74	15.05	8.41	6.34	14.75	9.89	6.90	16.79
34. INSAT-2 Satellites (Including Launch Services)	3252	122.01	...	122.01	196.90	...	196.90	58.10	...	58.10
	5252	1.99	...	1.99	1.60	...	1.60	...	...	...
	<i>Total</i>	124.00	...	124.00	198.50	...	198.50	58.10	...	58.10
35. INSAT-III Satellites (Including Launch Services)	3252	158.00	...	158.00	25.68	...	25.68	551.41	...	551.41
	5252	5.00	...	5.00	...	...	...	21.00	...	21.00
	<i>Total</i>	163.00	...	163.00	25.68	...	25.68	572.41	...	572.41
<i>Total - INSAT Operational</i>		296.31	5.74	302.05	232.59	6.34	238.93	640.40	6.90	647.30
36. Aid Material Equipments-Gross	3606	...	0.95	0.95	...	1.11	1.11	...	0.02	0.02
Deduct-Transfers to Functional Major Head	3606	...	-0.95	-0.95	...	-1.11	-1.11	...	-0.02	-0.02
Net-Aid Materials & Equipments	<i>Total</i>	...	...	...	...	...	...	...	...	...
Grand Total		990.00	177.60	1167.60	850.00	204.29	1054.29	1381.00	221.43	1602.43
		1997-98 Budget			1997-98 Revised			1998-99 Budget		
B. Investment in Public Enterprises	Head of	Budget	IEBR	Total	Budget	IEBR	Total	Budget	IEBR	Total
	Dev.	Support			Support			Support		
1. Antrix Corporation Limited	13402	0.25	...	0.25	...	...	...	...	...	...
		1997-98 Budget			1997-98 Revised			1998-99 Budget		
C. Plan Outlay*		Budget	IEBR	Total	Budget	IEBR	Total	Budget	IEBR	Total
		Support			Support			Support		

I. Space Research	13402	990.00	...	990.00	850.00	...	850.00	1381.00	...	1381.00
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