

**GOVERNMENT OF INDIA  
POWER  
LOK SABHA**

UNSTARRED QUESTION NO:1205  
ANSWERED ON:07.03.2002  
RENOVATION AND MODERNISATION OF HYDRO POWER STATIONS  
A. VENKATESH NAIK

**Will the Minister of POWER be pleased to state:**

- (a) whether CEA has identified some Hydro Power Stations for renovation and modernisation etc.;
- (b) if so, the details thereof, State-wise;
- (c) whether any station in Karnataka has also been identified;
- (d) whether installed capacity of these stations are likely to be increased after completion of the projects; and
- (e) if so, the details thereof?

**Answer**

THE MINISTER OF STATE IN THE MINISTRY OF POWER ( SHRIMATI JAYAWANTI MEHTA )

(a) to (e) : Government is according priority to renovation, modernisation and uprating (RM&U) of hydro power plants, as one of the most effective options available for generation of power. The standing Committee set up in January, 1999 under the Chairmanship of Member (Hydro), Central Electricity Authority, has identified 80 hydroschemes with an aggregate installed capacity of 12328.45 MW for RM&U works to result in a benefit of 5507.75 MW. This includes 11 hydro schemes in Karnataka with an expected benefit of 236.3 MW. State-wise details of these schemes is annexed.

ANNEX REFERRED TO IN THE REPLY TO THE PART (a) TO (e) OF UNSTARRED QUESTION NO.1205 TO B ANSWERED IN THE LOK SABHA ON 07.03.2002 REGARDING RENOVATION & MODERNISATION OF HYDRO POWER STATIONS.

Sl.No.	Name of the Scheme	Inst.	Est.	Expected	MU	Remarks
	Cap	MW	Cost	Benefits		
	Rs.Crs.	MW				

CENTRAL SECTOR

BBMB

1. Ganguwal (U3) 1x24.2 25 26.70 240 Uprating and life extension
2. Kotla (U2) 1x24.2 25 27.20 244.5 Uprating and life extension
3. Ganguwal U1 29.25 30 32.00 270 Uprating & prevention of Capacity loss
4. Kotla U1 29.25 30 32.00 270 Uprating & prevention of Capacity loss
5. Pong 6x60 17.25 36 - Uprating
6. Bhakra LB 5x108 178 600 1765 Uprating and life extension.
- 7 Dehar (Unit- 3&4) 6x165 49 165 518 Prevention of capacity loss

NHPC

8. Bairasiul 3x66 19.96 100 R&M

9. Salal St.I 3x115 61.47 200 R&M

10. Salal Phase II 6x115 20.00 R&M

NEEPCO

11. Khandong 2x25 15 R&M

STATE SECTOR

ANDHRA PRADESH

12. Tungbhadra Dam 2x9+2x9 40 38 118 Life extension

13. Hampi PH 2x9+2x9 30 38 118 Life extension

14. Nagarjunsagar 1x110 15 15 Uprating

15. Upper Sileru 4x60 10 R&M

16. Lower Sileru 4x115 200 460 1070 Prevention of capacity loss

17. N.J. Sagar RBC 2x30 5 R&M

18. Donkarayi 1x25 5 R&M

BIHAR/ JHARKHAND

19. Subernrekha 2x65 65 130 149 Prevention of capacity loss

J&K

20. Ganderbal 2x3+2x4.5 33.76 15 93.616 Prevention of capacity loss

KARNATAKA

21. Sharavathi PH-A 10x103.5 4.99 R&M

22. Nagjhari (U1&3) 2x135 26.12 30 Uprating

23. Bhadra PH-4 2x12+1x7.2+1x6+1x2 3.0 2.0 6.0 Life extension of 2 MW unit .

24. Supa PH 2x50 2.05 R&M

25. Shivasamudram 6x3+4x6 68.38 42 175 Prevention of Capacity .

26. Naghari (4,5,6) 3x135 48.85 45 Uprating

27. Sharavathy Ph-B 16.88 65 Uprating,

28. Lingnamakki 2x27.5 2.55 R&M

29. Bhadra RB Ph-B 2X12 6.15 24 75.3 Life extension of 12 MW units

30. Varahi Project 2x115 4.0 R&M

31. Munirabad Generating

Station 2x9+10.3 10.00 28.3 74 Prevention of capacity loss

KERALA

32. Panniar 2x15 62.00 30 148 Prevention of capacity loss

33. Pallivasal 3x5+3x7.5 94.00 37.5 284 Prevention of capacity loss

34. Sengulam 4x12 114.00 48.0 184 Prevention of capacity loss

35. Idamalayar 2x37.5 3.00 R&M

36. Sholayar 3x18 54 54 233 Prevention of cap. Loss

37. Kuttiady 3x25 25 75 248 Prevention of capacity loss

38. Idukki 3x130 195 390 1196 Prevention of capacity loss

MADHYA PRADESH

39. Gandhi Sagar 5x23 50.0 125 423 Uprating & life extension  
of units

MAHARASHTRA

40. Koyna Generating 4x70+4x80+4x80 14 131 R&M  
Complex  
41. Koyna St.III 14 R&M  
42. Tillari HPS 1x60 4.5 8.2 Uprating  
43. Bhira Tail Race 2x40 1.8 R&M  
44. Koyna I&II Sw.Yd. 8.00 R&M  
45. Koyna Dam PH 2x18 20 22 Uprating  
46. Vaitarna HPS 1x60 2.70 R&M  
47. Koyna St.-III 4x80 150 320 520 Prevention of capacity loss

ORISSA

48. Belimela 6x60 160 396 1180 Uprating and Life extension  
of units

PUNJAB

49. Anand Pur Sahib 4x33.5 150 26 112 Uprating  
50. UBDC - I 3x15 20 45 160 Prevention of capacity loss

RAJASTHAN

51. Rana Partap Sagar 4x43 87.5 172 459 Prevention of capacity loss  
52. Jawahar Sagar 3x33 88.66 99 298 Prevention of capacity loss

UTTAR PRADESH/ UTTARANCHAL

53. Rihand 6x50 110.21 360 860 Uprating & prevention of  
Capacity Loss.  
54. Obra 3x33 33.00 99 283 Prevention of capacity loss  
55. Chibro 4x60 5.32 20 R&M  
56. Dhakrani 3x11.25 16.50 33.75 160 Prevention of capacity loss  
57. Dhalipur 3x17 25.50 51 20 Prevention of capacity loss  
58. Chilla 4x36 31.85 60 R&M  
59. Ramganga 3x66 6.00 18 Restoration  
60. Tiloth 3x30 7.27 30 R&M  
61. Pathri 3x6.8 27.49 20.4 8 Prevention of capacity loss  
62. Khodri 4x30 5.42 10 R&M  
63. Khatima 3x13.8 20.00 41.4 198 Prevention of capacity loss  
64. Kulhal 3x10 4.80 10 R&M  
65. Matatila 3x10 25.38 40.8 124 Prevention of capacity loss

TAMIL NADU

66. Sholayar PH-I 2x35 40.67 84 188 Uprating  
67. Sholayar PH-II 1x25 18.99 27.5 66 Uprating  
68. Periyar 4x35 73.08 168 409 Uprating  
69. Kodayar PH-II 1x40 19.94 46 66 Uprating  
70. Moyar PH 3x12 18 36 115 Prevention of capacity loss  
71. Kundah St.-I 3x20 50 60 150 Prevention of capacity loss  
72. Kundah St.-II 5x35 75 175 437 Prevention of capacity loss  
73. Kundah St.-III 3x60 70 120 300 Prevention of capacity loss  
74. Kundah St.-IV 2x50 35 50 250 Prevention of capacity loss

- 75. Mettur Tunnel 4x50 100 200 451 Prevention of capacity loss
- 76. Kodayar P.H.-1 1x60 30 60 100 Prevention of capacity loss
- 77. Aliyar 1x60 30 60 175 Prevention of capacity loss
- 78. Sarkarpathy 1x30 15 30 162 Prevention of capacity loss
- 79. Kundah St.V 2x20 13 20 50 Prevention of capacity loss

WEST BENGAL

- 80. Jaldhaka St.II 2x4 10 8 27 Prevention of capacity loss

TOTAL EXPECTED BENEFITS : 5507.75 MW