

**GOVERNMENT OF INDIA
POWER
LOK SABHA**

UNSTARRED QUESTION NO:2535
ANSWERED ON:07.08.2003
RENOVATION AND MODERNISATION OF HYDRO POWER STATIONS OF TAMIL NADU
V. VETRISSELVAN

Will the Minister of POWER be pleased to state:

- (a) the details of Hydro Power Stations in Tamil Nadu which have been identified by CEA for renovation and modernization;
- (b) the present status of these Stations;
- (c) whether installed capacity of these stations is expected to be increased; and
- (d) if so, the details thereof, station-wise?

Answer

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

(a) : Twenty one (21) existing hydro power stations of Tamil Nadu have been identified by the Government of India for carrying out Renovation, Modernization, Uprating and Life Extension. The list of these hydro power stations along with their installed capacity is given at Annex-I.

(b) : The present status of the above 21 hydro power stations is given at Annex.II.

(c) & (d) : Yes, Sir. After completion of the Renovation & Modernization works, the installed capacity of six (6) hydro power stations is expected to increase from 343 MW to 407.5 MW. The station-wise increase of installed capacity is given at Annex-III.

ANNEX - I

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 2535 TO BE ANSWERED IN THE LOK SABHA ON 07.08.2003.

Hydro power stations identified for Renovation, Modernization, Uprating and Life Extension in Tamil Nadu

Sl. No.	Name of Power Station	Installed Capacity (No. of units X Capacity of each unit in MW)
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VIII th Plan

1.	Kadamparai	4x100
2.	Kundah-III	3x60
3.	Moyar	3x12
4.	Sholayar-I	2x35

X th Plan

5.	Mettur Dam PH	4x10
6.	Papanasam	4x7
7.	Pykara	3x6.65 + 1x11+ 2x14
8.	Sholayar-1	2x35

XI th Plan

9.	Aliyar	1x60
10.	Kodayar, PH-I	1x60
11.	Kodayar-II	1x40
12.	Kundah St.I	3x20
13.	Kundah St.II	5x35
14.	Kundah St.III	3x60
15.	Kundah St.IV	2x50
16.	Kundah St.V	2x20
17.	Mettur Tunnel	4x50
18.	Moyar	3x12
19.	Periyar	4x35
20.	Sarkar Pathy	1x30
21.	Sholayar-II	1x25

ANNEX - II

ANNEX REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 2535 TO BE ANSWERED IN THE LOK SABHA ON 07.08.2003.

Present status - Renovation, Modernization, Uprating and Life Extension of existing hydro power stations in Tamil Nadu

Sl. Scheme, Estimated Cost Scheme Expected Benefit Completion Present
 No. Year of Commissioning (Actual cost) category MW MU Schedule Status
 Make of T-G units, in Rs. Crs.
 Installed capacity

VIIIth Plan Schemes

1	Kadamparai 1987-88 Boving, UK (U1)-(T) GEC, UK(U1) (G) BHEL (U-2,3&4) (T) & (G) 4X100 MW	23.17 (33.69)	Res.	200 (Res)	61	1993-95	Completed
2	Kundah-III 1965-78 Vencouver, (U-1&2) (T) Dominion (U3) (T) W. House, (U1&2) (G) CGA, (U3) (G) 3x60 MW	5.45 (3.20)	R&M	-	8.12	1991-92	Completed
3	Moyar 1952-53 Boving, UK(T) Vickers, UK(G) 3x12 MW	1.62 (1.30)	RM&LE	36.0	115.0	1990-91	Completed
4	Sholayar-I 1971 Litostroj, Yugo (T) Rade Konkar, Yugo (G)	1.40 (0.85)	R&M	-	91.80	1994-95	Completed

2x35 MW

Xth Plan Schemes

5 Mettur Dam PH 27.37 RMU&LE 40 (LE) 111.98 2004-05 Ongoing
 1937-48 10 (UR) (9/04)
 EE, UK-(T) /
 Metro
 Vickers,UK-(G)
 4x10 MW

6 Papanasam 22.79 RMU&LE 28.0 (LE) 105 2004-05 Ongoing
 1944-51 4.0 (UR) (9/04)
 EE, UK-(T) /
 British
 Thompson, UK-(G)
 4x7 MW

7 Pykara 26.06 RM&LE 58.95 268.16 2003-04 Ongoing
 1934-54 (LE) (9/03)
 Escher Wyss,
 Switzerland-
 (T)/Metro
 Vickers, UK-(G)
 3x6.65 +
 1x11+
 2x14 MW

8 Sholayar-1 40.68 RMU&LE 70 (LE) 268 2006-07 Tendering is
 1971 14 (UR) in process
 M/s.
 Litostroj,
 Yugo (T)/M/s.
 Rade Konkar,
 Yugo (G)
 2x35 MW

XIth Plan Schemes

9 Aliyar 30.00@ RM&LE 60 (LE) 175 XI Plan RLA
 1970 studies
 M/s Neyrpic, proposed to be
 France (T&G) taken up
 1x60 MW in 2005-06.

10 Kodayar, PH-I 30.00@ RM&LE 60 (LE) 100 XI Plan RLA studies
 1970 M/s Vevey proposed to
 Engg. works, be taken
 France up in 2005-06.
 (T)/M/s.
 Alsthom,
 France(G)
 1x60 MW

11 Kodayar-II, 19.94 RMU&LE 40 (LE) 96 XIth Plan Appraised by
 TNEB 6 (UR) CEA.This scheme
 1971 will be taken
 M/s up after
 Litostroj,Yugo completion of
 (T)/Rade Mettur Dam &
 Konkar,Yugo Papanasam R & M
 (G) 1x40 MW ongoing schemes

12 Kundah St.I 50.00@ RM&LE 60 (LE) 150 XI Plan RLA studies
 1960-64 LE proposed to be
 Dominican taken up in
 Engg. works, 2004-05.

Canada (T)/Westinghouse, Canada (G) 3x20 MW						
13 Kundah St.II 1960-64 Dominian Engg. works, Canada (T)/Westinghouse, 5x35 MW	75.00@	RM& LE	175 (LE)	437	XI Plan RLA studies proposed to be taken up in 2004-05.	
14 Kundah St.III 1965-78 Vancauver Iron & Engg. works (U-1&2) & Dominion Engg. works (U-3) for T/ Canadian Westinghouse U-1&2) & Canadian General Electric (U-3) for G 3x60 MW	70.00@	RM&LE	180	300	XI Plan RLA studies proposed to be taken up in 2004-05.	
15 Kundah St.IV 1966-78 Canadian Vickers/ Dominion Engg. (T)/ Canadian General Electric (G) 2x50 MW	35.00@	RM&LE	100 (LE)	250	XI Plan RLA studies proposed to be taken up in 2004-05.	
16 Kundah St.V 1964-88 Domino Engg. (Unit-1)/BHEL (Unit-2)-T Canadian Westinghouse (U-1)/BHEL (U-2)-G 2x20 MW	13.00@	RM&LE for U-I	20 (LE)	50	XI Plan RLA studies proposed to be taken up in 2004-05.	R&M for U-II
17 Mettur Tunnel 1965-66 Machino Export, Moscow (T)/Electrosila, USSR (G) 4x50 MW	100@	RM&LE	200	451	XI Plan RLA studies proposed to be taken up in 2004- 05.	
18 Moyar 1952-53 Boving, UK (T&G) 3x12 MW	18.00@	RM&LE	36 (LE)	115	XI Plan RLA studies proposed to be taken up in 2004- 05.	
19 Periyar 1958-65 M/s Voith, W. Germany - Ulto3 & M/s Litostroj Yugo, U-4 for T & M/s Voith, W.	73.80	RMU&LE	140 (LE) 28 (UR)	534 (2007- 08)	XI Plan DPR under finalisation. Works to be taken up in 2004- 05.	

Germany-U-
1to3 & M/s
Rade Konkar,
Yugo.-U-4 for
G 4x35 MW

20 Sarkar Pathy 1966 M/s Hitachi, Japan (T&G) 1x30 MW	15.00@	RM&LE	30 (LE) 162	XI Plan	RLA studies already conducted. Units are since running without any trouble,
		RM&LE works will be taken up during the mid of XIth Plan.			
21 Sholayar-II, TNEB 1971 M/s Litostroj, Yugo (T) M/s Rade Konkar (G) 1x25 MW	18.99@	RMU&LE	25 (LE) 66	XI Plan 2.5(UR) taken up	RLA studies proposed to be in 2004-05.

Abbreviations:

R&M - Renovation & Modernization,
RM&U - Renovation Modernization & Uprating,
RM&LE - Renovation, Modernization & Life Extension,
Res. - Restoration,
@ - as per National Perspective Plan.

ANNEX III

ANNEX REFERRED TO IN REPLY TO PARTS (c) & (d) OF UNSTARRED QUESTION NO. 2535 TO BE ANSWERED
IN THE LOK SABHA ON 07.08.2003

Increase in capacity of hydro power stations after Renovation, Modernization, Uprating and Life Extension in Tamil Nadu

S1. No.	Name of the station	Installed Capacity in MW	Effective Capacity in MW	Increase in capacity due to up-rating in MW	Remarks
		Before R&M	After R&M		

VIII th Plan - Nil -

X th Plan

1.	Mettur Dam	4x10	40	50	10	On-going
2.	Papanasam	4x7	28	32	4	On-going
3.	Sholayar-I	2x35	70	84	14	Tendering in progress

XI th Plan

4.	Kodayar-II	1x40	40	46	6	Appraised by
	CEA. This scheme will be taken up after completion of Mettur Dam & Papanasam R&M ongoing schemes.					
5.	Periyar	4x35	140	168	28	DPR under finalization.
	Works to be taken up in 2004-05.					
6.	Sholayar-II	1x25	25	27.5	2.5	RLA studies proposed to be taken up in 2004-05.
Total	343	407.5	64.5			