Democratic Socialist Republic of Sri Lanka
The Ministry of Mahaweli Development

FEASIBILITY REPORT
ON
THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT

VOLUME I
MORAGAHAKANDA DAM AND POWER SITE

OCTOBER 1[illegible]

MAHAWELI AUTHORITY OF SRI LANKA

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FEASIBILITY REPORT ON THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT

VOLUME II
MORAGAHAKANDA DAM AND POWER STATION

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JAPAN INTERNATIONAL COOPERATION AGENCY

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FEASIBILITY STUDY REPORT

ON

THE MORAGAHAKANDA AGRICULTURAL DEVELOPMENT PROJECT

VOLUME II :

MORAGAHAKANDA DAM AND POWER STATION

ANNEX I	:	WATER BALANCE STUDY
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October 1979

JAPAN INTERNATIONAL COOPERATION AGENCY

ANNEX I : WATER BALANCE STUDY

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1. WATER BALANCE STUDY

1.1 Conditions of Water Balance Calculation

(1) Period of calculation

The Mahaweli receives rain from both the south-west monsoon and the north-east monsoon, while the Amban Ganga gets it mainly from the north-east monsoon. As a result, their flow regimes are quite different. Yala season from April to September is the dry season in the Amban Ganga basin. While in this period, the Mahaweli flow is diverted continuously at the maximum level through Polgolla tunnel.

The above facts make it difficult to select a certain basic year for planning the project. The scale of project shall be studied on the basis of long term water balance.

In due consideration of availability in hydrological data concerned, the water balance study is carried out on monthly basis for a period of 28 years from 1950 to 1977.

(2) Tank operation

Total effective storage capacity of five existing tanks in the project area is 563 million cu-m. In making the water use plan of the project, therefore, it is necessary to establish reasonable operation criteria of these tanks. In order to make full use of the given water resources, tank operation criteria have been established taking into consideration following basic conditions.

- To maximize use of natural runoff from own catchment area of the tank and to minimize spill-out.

- To use tank water as much as possible when irrigation requirements are high and to store water in the tank when irrigation requirements are low.

- To supply water to the tank proportionately with available flow at the dam site to minimize the scale of the proposed reservoir.

- To limit the maximum flow to the tank according to the capacities of existing intake and canals.

In order to fulfill the above requirements, operation of the tank shall be carried out following a rule curve which shows a required water level of tank for each month. As a first step to establish a reasonable rule curve, the balance between natural inflow from catchment and irrigation requirements is calculated for each tank on monthly basis. The average values for 28 years are shown in Table 1.1.

As seen in the table, it is necessary to supply annually about 80 to 400 million cu-m of water to the respective tanks to meet irrigation requirements of the fields commanded by the tanks. This annual deficit of water is distributed into 12 months and sent to those tanks from the Moragahakanda reservoir through the existing intakes and canals. The distribution of water shall be done in such a way to minimize the proposed reservoir capacity. Then, the annual deficit is distributed to each month in proportion to the monthly average available water at the dam site and the monthly water budget of each tank is calculated as shown in Table 1.2. In the table, negative number shows average monthly volume of water released from the tanks and positive number shows the water stored in the tanks. From the table, a rule curve of each tank is derived as shown in Fig. 1.1, in which required storage for each month is shown in percentage of effective capacity of each tank. The curve indicates that the water in the tanks is used for four months from May to August and stored during Maha season from October to January. Using this rule curve, the first trial of water balance calculation is carried out. The result, mainly due to the limited canal capacity, reveals that the following modifications are required to the tentative rule curves.

- From Minneriya tank, a large amount of water is sent at a time to Kantalai and Kaudulla tanks. To assure this, the rule curve of the Minneriya tank is necessary to be kept at full level.

- In order to diminish shortage of water in Parakrama Samudra tank in September, the rule curve of Parakrama Samudra tank has to be modified for August. The modified curve is shown in Fig. 1.1.

The final rule curves are decided based on the above modifications. The tank operation is carried out in accordance with this final rule curve.

According to the final rule curves, the waterlevel of each tank at the beginning of each month shall be kept at the following elevations.

Required Water Level of Tanks

Unit: m

Name of Tank	JAN.	FEB.	MAR.	APR.	MAY	JUNE
KANTALAI	58.1	59.3	58.5	57.9	58.3	58.5
KAUDULLA	72.7	73.2	72.6	72.5	73.0	72.4
MINNERIYA	93.7	93.7	93.7	93.7	93.7	93.7
GIRITALE	91.6	92.2	91.5	91.4	91.9	91.2
P. SAMUDRA	57.4	58.5	58.5	58.6	59.1	58.4

Name of Tank	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
KANTALAI	54.8	52.0	48.1	46.9	51.7	55.0
KAUDULLA	70.4	68.4	65.9	66.9	69.0	70.8
MINNERIYA	93.7	93.7	93.7	93.7	93.7	93.7
GIRITALE	88.8	86.0	82.7	84.1	86.8	89.1
P. SAMUDRA	57.4	55.9	52.0	52.2	52.9	54.7

(3) Canal conveyance losses

The existing canal layout of Elahera Yoda Ela and Angamedilla canals is as shown in Fig. 1.2. All the canals are made of earth. Seepage loss from the bank of canal and evaporation loss from canal water surface will be the main canal conveyance losses.

UNDP/FAO have provided a curve showing correlation between canal discharge and seepage loss rate to estimate possible rate of conveyance loss in unlined canals in the Mahaweli region. According to UNDP recommendations, the conveyance loss in unlined canals with capacity of more than 200 cusec is estimated at about 0.3% of canal discharges for each mile. Since no actual measurements of canal losses are available in the project area, the rate of loss of each canal in the project area is calculated by applying the above value.

SECTION	CANAL LENGTH	RATE OF LOSS
Elahera - Diyabeduma	20 mls	6.0 %
Diyabeduma - Giritale	5	1.5
Diyabeduma - Minneriya	5	1.5
Minneriya - Kaudulla	6	1.8
Minneriya - Kantalai	32	9.6
Angamedilla - P. Samudra	3	0.9

The above values are used in the water balance calculations for the project.

(4) Planning criteria

The criteria for acceptable deficit of irrigation waterand hydropower potential are decided as follows:

Irrigation: The total number of crop season of water shortage shall not exceed 20% of the total crop seasons for the study period, as practiced in irrigation projects of developing countries in Asia.

Firm power potential: The total number of months of power potential shortage shall not exceed 2% of the total number of months for the study period.

1.2 Computer Program

The water flow diagram of the project is shown systematically in Fig. 1.3. The flow is regulated in two reservoirs and five tanks. After the Moragahakanda project is completed, these reservoirs and tanks will function as one system in the water management of the project. In this view, a comprehensive water balance study is carried out. The criteria and procedure used in the study are summarized below.

(1) Operation criteria of existing tank and reservoir

a. Inflow to Bowatenna reservoir is the sum of i) natural runoff of the Amban Ganga at Bowatenna less diversion requirements to Dewahuwa region from Nalanda reservoir and ii) Polgolla diversion flow.

b. At the Bowatenna reservoir, the priority is given to the supply of the minimum required flow for power generation at Bowatenna (1.03 million cu-m per day).

c. The inflow to Bowatenna after the supply of the minimum required flow for power generation is diverted as much as possible to Kalawewa region to meet the irrigation requirements within the maximum limit 31.1 m^3/sec.

d. Inflow to the Moragahakanda reservoir is the sum of the released flow at Bowatenna and the intermediate flow of the Amban Ganga between Bowatenna and the Moragahakanda dam site.

e. At Elahera anicut, the diversion requirements have a priority over the downstream requirements.

f. At Diyabeduma bifurcation, diversion requirements to Giritale tank have a priority.

g. The operation of each tank shall follow as closely as possible the rule curve mentioned in Section 1.1.

h. Inflow to Kantalai tank is sent to Kaudulla tank in case Kantalai tank is full.

(2) Operation criteria of the Moragahakanda Reservoir

a. Operation for irrigation purpose only

In case reservoir water level is above the low water level, water is released to meet the irrigation water requirements downstream. In case reservoir water level becomes the low water level and the water requirements are more than the inflow, the inflow is released without regulation.

b. Operation for both irrigation and power generation purposes

In case the reservoir is operated giving a priority to power generation, namely in case water is released aiming to get possible maximum firm power, it is clear from water balance studies that the proposed benefited area of 62,200 ha can not be fully irrigated even if the reservoir capacity is increased to the maximum possible extent. Therefore, the operation of reservoir has to be done in such manner to first meet the irrigation requirements and then to generate the maximum firm power.

In order to fulfill the above requirement, a water level is set up for the operation purpose between the high water level and the low water level of reservoir. This water level is called as "operation water level" in this report. The

operation water level is decided so that the required capacity to irrigate the benefited area is secured above the operation water level.

Adopting this operation water level, water is released following the criteria as mentioned below.

- In case the reservoir water level is above the operation water level, water is released to meet irrigation requirements or to keep a firm power potential, whichever is bigger.

- In case reservoir water level is below the operation water level, the water is released in such a manner that the firm power can be generated.

(3) Calculation procedure

The calculation procedure of computer analysis is explained in Flow Chart as prepared in Fig. 1.4.

1.3 Water Balance Calculation

(1) Cases of the study

The water balance calculation is carried out in the folloing cases in order to provide basic data for the optimization of the Moragahakanda reservoir capacity, according to the conditions described in the previous sub-sections.

Case I ..... Without reservoir.

The study is carried out to know the condition of irrigation water supply to the existing field of 48,300 ha, without reservoir. The result is used as the basic data to evaluate without-project condition.

Case II ..... Reservoir for irrigation purpose only.

The study is executed to decide the minimum dam scale necessary to irrigate the proposed benefited area of 62,200 ha with the prescribed irrigation criteria. The result of study is useful to compute the allocation cost for irrigation.

Case III ..... Combination of irrigation and hydropower.

The study is done for various cases of dam height to know the firm power potential and annual energy product. The results is used for determing the optimum scale of the reservoir.

Case IV ..... After Kotmale.

In order to demonstrate the after-Kotmale conditions, a check calculation is carried out for the optimum scale of reservoir decided through the above case studies.

(2) Summary of the study

All the results of computer analysis are shown in Table 1.6 to Table 1.10. Hereinunder mentioned is the summary of the study.

In the case I study, it is found that remarkable water deficit occurs in Yala cultivation season. As summarized in Table 1.3, water deficit occurs in 23 years out of the total 28 years in the study period. The average amount of water deficit in Yala season is 112 million cu-m, which correspond to 12.7% of the average irrigation water requirements. Thus, it can be concluded that without reservoir, the amount of available water can not be met even to the irrigation requirements of the existing fields of 48,300 ha.

Contrary to the above, water can be supplied almost sufficiently in Maha season though some water deficit occurs in such drought years as 1973 to 1975.

In the case II study, water balance calculations are carried out with trial and error method under various scales of reservoir capacity in order to know the required scale of dam for irrigation. As a result, it is found that the proposed benefited area of 62,200 ha can be irrigated sufficiently by providing a dam with the high water level, MSL 187 m. In this case, no amendments are required on capacities of the existing canals and tanks. The features of the required dam are;

High water level	MSL 187 m
Low water level	MSL 150 m
Total capacity	628 million cu-m
Dead capacity	22 million cu-m
Effective capacity	606 million cu-m

In the calculation, the low water level is assumed at MSL 150 m considering the expected sedimentation. However, it will be changed depending upon a type of intake structure or taking power generation into account. In such cases, the high water level is necessary to be changed in such manner to keep always the effective capacity of 606 million cu-m for irrigation.

By providing the above reservoir at Moragahakanda, occurrence of water deficit is limited to eight times in Yala season and three times in Maha season during the study period. As shown in Table 1.4, an average amount of dificit is 88 million cu-m in Yala season, which correspond to 7.9% of the average amount of irrigation requirements. In Maha season, water deficit occurs only in drought years of 1973 to 1975. An average deficit is 10 million cu-m or 1.4% of the average irrigation requirements.

The case III study is executed to know potentials of power generation under various heights of dam. In the upstream of the dam site, Bowateana power station has been constructed and, therefore, the highest water level of the Moragahakanda dam is limited to MSL 200 m, which is the tail water level of the station. Taking the above into consideration, the study is carried out for following three cases.

	H.W.L.	Total Reservoir Capacity
Case a	200 m	1,110 million cu-m
Case b	195 m	900 "
Case c	188 m	658 "

As the first step of the study on Case a and b, possible maximum firm power capacity is decided for each case by the trial and error method. After then, annual power output is calculated under various conditions of installed capacity of generator. For the Case c study, however, only annual power output is computed as no firm power is expected. The result of study is summarized in Table 1.5.

In Case IV study, the following are made clear:

i) irrigation water deficit is lessened to an extent as seen in Table 1.5a: times of the failure are reduced only by one to 7 from 8 in Yala seasons and equal in Maha, while the deficit in quantity is improved to 3.7 % from 5.4 % in Case II,

ii) this fact is seemingly understood that the reservoir capacity decided to meet the irrigation requirements without Kotmale Reservoir does not function to reduce occurrences of the irrigation water deficit, though excessive water became available and

iii) when it is studied to utilize in the most effective way the water becoming available excessively from the Kotmale Reservoir, the review of the following items is required:

a) optimal cropping pattern more water consumptive than the present one,
b) operation rules of existing tanks and the Moragahakanda Reservoir and
c) released discharge from the Kotmale Reservoir to the final design and reservoir operation.

The review of the abovementioned matters will have to be made in the later stage of the Project, since this may much affect the development in the downstream reaches of the Mahaweli Ganga.

Table 1.1 Monthly Average Balance of Tank Inflow and Irrigation Requirements

Unit: million cu-m

Name of Tank	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN.
1. KANTALAI	-17.50	-38.54	-32.07	-6.43	-42.14	-71.32	-64.29	-52.43	-17.93	0.71	13.79	19.46	-308.68
2. KAUDULLA	-37.71	-50.04	-23.64	-7.25	-41.86	-71.04	-63.32	-55.96	-7.11	-10.93	-14.36	-16.64	-399.86
3. MINNERIYA	-14.75	-26.50	-11.57	1.82	-22.43	-44.71	-39.89	-34.00	0.71	2.82	5.89	9.43	-173.18
4. GIRITALE	-7.54	-10.32	-5.11	-1.29	-8.61	-14.79	-13.82	-11.93	-1.32	-2.04	-2.79	-2.89	- 82.43
5. PARAKRAMA S.	-28.71	-37.64	-17.68	-4.25	-37.46	-59.21	-54.21	-45.89	-7.57	-6.75	-8.82	-10.61	-318.82

Table 1.2 Monthly Water Budget of Tanks

Unit: million cu-m

Name of Tank	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1. KANTALAI	24.03	-14.36	-16.84	10.60	-24.43	-56.23	-47.42	-34.17	-3.94	34.47	55.15	73.14
2. KAUDULLA	16.09	-18.72	-3.92	14.81	-18.91	-51.49	-41.47	-32.31	11.01	32.80	39.23	52.88
3. MINNERIYA	48.67	-46.02	-23.79	36.79	-55.81	-143.97	-119.33	-90.23	15.64	89.03	123.48	165.56
4. GIRITALE	3.56	-3.87	-1.04	3.26	-3.88	-10.76	-9.32	-7.05	2.41	6.98	8.26	11.44
5. PARAKRAMA S.	33.88	-1.91	5.70	16.39	-22.44	-51.06	-42.29	-39.57	0.61	9.90	26.38	64.43

Table 1.3 Irrigation Water Deficit Without Dam Condition
(Irrigable area 48,300 ha, without Kotmale)

Million cu-m

YEAR	YALA SEASON			MAHA SEASON		
	IR/*	Deficit	% of Deficit	IR	Deficit	% of Deficit
1950	935	120.46	12.9	560	-	
1951	864	56.14	6.5	519	-	
1952	897	33.84	3.8	641	-	
1953	826	301.27	36.5	433	-	
1954	906	55.46	6.1	498	-	
1955	792	0.28	0.4	753	-	
1956	934	440.12	47.1	492	-	
1957	947	123.75	13.1	404	-	
1958	901	-	-	673	-	
1959	905	84.91	9.4	340	-	
1960	789	-	-	459	-	
1961	964	71.81	7.4	453	3.0	0.7
1962	903	7.45	0.8	441	-	
1963	885	41.26	4.7	443	-	
1964	913	73.16	8.0	641	11.41	1.8
1965	788	-	-	399	-	
1966	882	67.15	7.6	547	-	
1967	968	79.57	8.2	435	-	
1968	941	123.79	13.2	617	-	
1969	856	43.59	5.1	414	-	
1970	867	-	-	547	-	
1971	856	-	-	710	-	
1972	872	157.67	18.1	565	-	
1973	827	222.18	26.9	661	47.56	7.2
1974	874	285.15	32.6	718	73.04	10.2
1975	857	248.44	29.0	678	6.72	1.0
1976	888	424.54	47.8	578	-	
1977	905	83.79	9.3		-	
Total	24,742	3,145.78		1,461.9	141.73	
Average	883.6	112.3	12.7	522.1	5.2	

/* IR: Irrigation Requirements

Table 1.4 Irrigation Water Deficit With Dam Condition (Irrigable area 62,200 ha, irrigation purpose only, without Kotmale)

Million cu-m

YEAR	YALA SEASON			MAHA SEASON		
	IR/*	Deficit	% of Deficit	IR	Deficit	% of Deficit
1950	1,184	-		725	-	
1951	1,096	-		669	-	
1952	1,131	-		826	-	
1953	984	263.99	26.8	561	-	
1954	1,199	-		647	-	
1955	991	-		959	-	
1956	1,208	444.11	36.8	637	-	
1957	1,208	330.66	27.4	525	-	
1958	1,143	-		868	-	
1959	1,163	-		436	-	
1969	1,008	-		586	-	
1961	1,195	-		593	-	
1962	1,149	-		568	-	
1963	1,122	-		575	-	
1964	1,159	-		850	-	
1965	995	-		519	-	
1966	1,124	-		709	-	
1967	1,242	-		579	-	
1968	1,203	-		802	-	
1969	1,082	-		546	-	
1970	1,089	-		702	-	
1971	1,085	-		910	-	
1972	1,109	-		726	-	
1973	1,036	39.02	3.8	868	48.39	5.6
1974	1,112	485.22	43.6	915	220.2	24.1
1975	1,054	396.43	37.6	874	0.88	0.1
1976	1,133	510.60	45.1	733	-	
1977	1,150	5.66	0.5		-	
Total	31,354	2,475.69		18,908	269.47	
Average	1,119.8	88.4	7.9	700.3	10.0	1.4

/* IR: Irrigation Requirements

Table 1.5 Summary of Water Balance Studies

1.	Case	Case a	Case b	Case c
2.	H.W.L.	MSL 200 m	MSL 195 m	MSL 188 m
3.	L.W.L.	MSL 175 m	MSL 170 m	MSL 154 m
4.	Total Capacity	1,110 million cu-m	900 million cu-m	658 million cu-m
5.	Effective Capacity	802 million cu-m	686 million cu-m	618 million cu-m
6.	Irrigable Area	62,200 ha	62,200 ha	62,200 ha
7.	Firm Power Potential	10 MW	6 MW	0
8.	Average Annual Power Output Installed Capacity			
	66 MW	183.0 GWH	– GWH	– GWH
	50 MW	179.7	–	–
	45 MW	178.5	–	–
	40 MW	176.9	159.6	–
	35 MW	174.7	157.7	–
	30 MW	170.8	154.7	–
	25 MW	162.2	148.9	–
	20 MW	144.3	135.4	–
	22 MW			104.4*
9.	Average Reservoir Water Level	MSL 190.60 m	MSL 184.77 m	MSL 173.77 m

* : Generated under Reservoir water level higher than MSL 165 m, and potential below this water level not counted because of limitation of turbine design.

Table 1.5a Irrigation Water Deficit with Moragahakanda Dam
(Irrigable area 62,200 ha, with Kotmale Dam)

Million cu-m

YEAR	YALA SEASON			MAHA SEASON		
	IR/*	Deficit	% of Deficit	IR	Deficit	% of Deficit
1950	1,184	-		725	-	
1951	1,096	-		669	-	
1952	1,131	-		826	-	
1953	984	92.19	9.4	561	-	
1954	1,199	-		647	-	
1955	991	-		959	-	
1956	1,208	335.47	27.8	637	-	
1957	1,208	114.8	9.5	525	-	
1958	1,143	-		868	-	
1959	1,163	-		436	-	
1960	1,008	-		586	-	
1961	1,195	-		593	-	
1962	1,149	-		568	-	
1963	1,122	-		575	-	
1964	1,159	-		850	-	
1965	995	-		519	-	
1966	1,124	-		709	-	
1967	1,242	-		579	-	
1968	1,203	-		802	-	
1969	1,082	-		546	-	
1970	1,089	-		702	-	
1971	1,085	-		910	-	
1972	1,109	-		726	-	
1973	1,036	-		868	13.46	1.6
1974	1,112	361.77	32.5	915	146.45	16.0
1975	1,054	346.79	32.9	874	2.85	0.3
1976	1,133	442.22	39.0	733	-	
1977	1,150	4.05	0.4		-	
Total	31,354	1,696.77		18,908	162.76	
Average	1,119.8	60.6	5.4	700.3	6.0	0.9

/* IR: Irrigation Requirements

Table 1.6 Summary of Case I Study

Condition of study

(1) H.W.L. El. 140 m

(2) L.W.L. El. 140 m

(3) Firm Power 0 kW

(4) Installed capacity 0 kW

(5) Without reservoir

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1961	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1962	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1963	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1964	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1967	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1968	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1971	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MEAN	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1961	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1962	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1963	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1964	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1967	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1968	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1971	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MEAN	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	193.70	44.07	71.93	40.98	42.77	43.60	57.30	94.90	97.20	116.50	62.70	52.60	918.25	76.52
1951	435.70	173.70	51.30	109.20	42.77	105.60	94.23	21.90	52.20	158.50	269.70	262.60	1777.40	148.12
1952	374.70	160.70	49.43	111.07	106.70	94.60	66.30	77.90	35.43	192.27	117.70	78.60	1465.40	122.12
1953	54.98	42.59	44.25	50.60	35.74	32.47	53.30	53.90	34.20	190.50	156.70	194.60	943.83	78.65
1954	259.70	120.70	116.30	170.20	69.70	61.60	121.30	107.90	69.20	184.50	101.70	407.60	1790.40	149.20
1955	350.70	219.70	128.30	151.20	178.70	110.60	97.30	109.90	95.20	140.50	96.70	69.60	1748.40	145.70
1956	44.25	49.25	51.28	49.49	43.51	56.60	60.30	64.90	66.20	88.50	219.70	200.60	994.58	82.88
1957	94.70	140.70	45.73	34.69	40.55	91.60	93.53	77.90	48.20	178.50	263.70	547.60	1657.40	138.12
1958	245.70	68.70	194.30	120.20	204.70	78.60	82.30	149.90	37.20	169.50	168.70	153.60	1673.40	139.45
1959	133.70	39.63	35.74	41.35	76.18	141.60	110.30	99.90	77.20	202.50	233.70	261.60	1453.40	121.12
1960	237.70	412.70	138.30	152.20	101.70	92.60	192.30	144.90	80.20	191.50	287.70	208.60	2240.40	186.70
1961	166.70	113.70	66.30	42.46	85.44	95.60	82.30	96.90	76.20	139.50	232.70	281.60	1479.40	123.28
1962	255.70	132.70	52.30	105.20	180.70	118.60	76.30	53.90	88.20	231.50	225.70	264.60	1785.40	148.78
1963	358.70	209.70	111.30	152.20	89.70	44.60	130.30	93.90	79.20	150.50	235.70	371.60	2027.40	168.95
1964	358.70	200.70	127.30	45.42	44.25	38.02	84.30	81.90	75.20	144.50	162.70	190.60	1553.60	129.47
1965	61.64	84.76	46.47	97.03	217.70	91.60	38.70	155.90	57.20	194.50	247.70	324.60	1617.80	134.82
1966	205.70	79.70	94.30	129.20	40.55	36.54	36.48	60.90	121.20	208.50	294.70	208.60	1516.37	126.36
1967	191.70	168.70	104.30	46.16	43.88	40.24	75.30	83.90	35.06	145.64	302.70	379.60	1617.19	134.77
1968	195.70	63.70	89.30	56.20	38.70	49.60	95.30	101.90	74.20	200.50	252.70	303.60	1521.40	126.78
1969	170.70	78.70	45.73	79.77	65.70	81.60	67.30	90.90	77.20	232.50	187.70	297.60	1475.40	122.95
1970	332.70	337.70	112.30	161.20	119.70	77.60	77.30	100.90	70.20	180.50	212.70	310.60	2093.40	174.45
1971	336.70	125.70	104.30	166.20	116.70	84.60	90.30	170.90	152.20	207.50	156.70	444.60	2158.40	179.87
1972	153.70	47.40	33.30	41.35	131.70	38.39	70.30	61.90	46.20	236.50	244.70	371.60	1477.05	123.09
1973	111.70	46.66	39.30	38.39	35.70	35.43	36.11	85.90	34.32	35.74	106.34	301.60	907.20	75.60
1974	130.70	36.30	39.81	62.20	63.70	77.60	82.30	101.90	114.20	90.50	42.70	97.60	939.51	78.29
1975	77.70	43.33	49.06	39.50	41.66	77.60	74.30	99.90	96.20	113.50	277.70	210.60	1201.05	100.09
1976	183.70	49.25	47.95	42.46	40.18	19.60	37.96	57.90	60.20	193.50	306.70	306.60	1346.00	112.17
1977	64.70	37.41	42.77	45.79	201.70	225.83	222.30	108.90	41.35	286.35	362.70	395.60	2035.40	169.62
TOTAL	5782.37	3328.57	2132.93	2381.96	2502.66	2142.54	2405.61	2612.20	1990.97	4804.99	5831.24	7498.80	43414.83	3617.90
MEAN	206.51	118.88	76.18	85.07	89.38	76.52	85.91	93.29	71.11	171.61	208.26	267.81	1550.53	129.21

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1961	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1962	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1963	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1964	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1967	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1968	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1971	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MEAN	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1951	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1952	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1953	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1954	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1955	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1956	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1957	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1958	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1959	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1960	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1961	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1962	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1963	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1964	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1965	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1966	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1967	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1968	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1969	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1970	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1971	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1972	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1973	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1974	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1975	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1976	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
1977	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00
TOTAL	3920.03	3920.03	3920.03	3920.03	3920.03	3920.03	3920.03	3920.03	3920.03	3920.03	3920.03	3920.03	47040.31	3920.03
MEAN	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	1680.01	140.00

Table 1.7 Summary of Case II Study

Condition of study

(1) H.W.L. El. 187 m

(2) L.W.L. El. 150 m

(3) Firm power 0 kW

(4) Installed capacity 0 kW

(5) Irrigation purpose only
Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1961	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1962	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1963	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1964	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1967	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1968	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1971	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MEAN	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1961	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1962	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1963	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1964	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1967	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1968	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1971	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
TOTAL	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
MEAN	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	141.09	135.47	92.85	142.52	74.55	149.56	178.82	150.38	110.54	149.54	72.49	52.23	1452.24	121.02
1951	108.40	123.20	141.09	71.84	92.24	149.56	182.76	147.42	51.58	146.51	86.85	132.17	1432.84	119.40
1952	39.12	122.91	144.80	74.45	100.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1508.94	125.75
1953	133.24	123.52	43.74	50.13	35.21	31.91	52.71	53.29	33.58	138.78	129.72	129.22	955.05	79.59
1954	103.38	124.66	50.23	23.62	146.47	161.56	175.55	151.16	153.91	123.64	149.82	102.14	1488.14	124.01
1955	54.87	96.50	81.82	13.30	100.59	102.57	124.60	118.46	41.26	139.42	145.01	192.09	1270.49	105.87
1956	156.14	152.24	147.72	107.36	42.98	54.04	59.71	64.29	65.58	88.03	123.07	132.53	1195.69	99.64
1957	141.82	106.74	149.39	75.34	41.02	91.04	92.94	77.29	47.58	130.07	36.47	0.	988.70	82.39
1958	87.69	175.17	37.99	42.99	110.55	130.41	180.37	95.96	84.00	133.03	139.32	137.58	1311.21	109.77
1959	146.34	152.50	151.01	142.49	150.45	135.84	164.82	141.60	76.58	105.02	42.43	129.35	1538.85	128.24
1960	80.00	0.	69.28	3.97	41.68	104.91	82.98	113.82	43.65	70.09	0.	103.22	720.30	60.03
1961	5.32	60.02	9.47	31.02	137.55	145.31	188.37	151.46	157.54	59.56	64.04	56.51	1067.17	88.93
1962	86.20	131.18	112.37	47.56	125.39	144.45	186.17	150.45	79.51	122.43	135.35	137.31	1478.37	123.20
1963	18.73	47.47	16.55	4.97	123.05	159.93	146.60	153.46	77.43	134.54	2.94	30.26	956.83	79.74
1964	114.10	119.03	39.12	77.27	125.94	165.54	138.97	149.12	109.36	99.39	169.93	143.68	1454.47	121.21
1965	155.49	110.77	142.49	128.50	37.16	144.95	180.86	129.16	82.37	25.01	13.67	36.53	1182.36	98.53
1966	75.07	132.58	50.18	46.50	155.46	166.56	196.82	151.16	55.15	7.21	4.52	129.89	1211.19	100.93
1967	144.50	123.24	142.05	137.51	164.46	163.54	150.50	150.62	110.26	67.51	2.43	42.45	1399.09	116.59
1968	119.50	139.50	83.47	93.42	171.47	145.56	185.71	154.46	98.37	101.98	99.05	138.76	1556.45	129.70
1969	140.66	127.89	149.39	101.98	165.47	161.56	181.47	107.94	54.02	17.97	98.61	1.68	1303.64	108.64
1970	111.85	23.15	62.59	17.96	88.53	113.98	184.23	150.74	92.94	149.06	102.06	127.75	1224.67	102.06
1971	99.33	123.23	124.26	40.49	82.12	129.22	163.88	133.54	90.54	148.10	143.15	70.61	1348.47	112.37
1972	145.88	134.38	148.34	134.47	104.45	149.54	184.70	151.46	51.32	48.65	16.73	108.85	1380.77	115.06
1973	148.04	153.26	166.99	163.07	156.36	115.32	35.52	85.29	33.71	35.27	105.94	123.71	1321.39	110.12
1974	148.04	159.66	72.52	41.72	63.17	77.04	81.71	101.29	113.58	90.03	42.31	97.23	1108.00	92.33
1975	76.02	42.93	48.55	39.03	41.13	77.04	73.71	99.29	95.58	113.03	126.71	132.71	965.73	80.48
1976	141.80	133.78	149.03	113.73	39.45	19.04	37.37	57.29	59.58	146.21	120.92	124.94	1148.34	95.70
1977	147.92	152.44	147.73	144.47	143.18	139.79	144.09	148.88	116.28	9.62	12.48	0.	1306.90	108.91
TOTAL	3068.56	3179.02	2812.23	2164.79	2892.79	3497.02	4044.89	3494.74	2301.83	2746.04	2324.07	2750.31	35276.29	2939.69
MEAN	109.59	113.54	100.44	77.31	103.31	124.89	144.46	124.91	82.21	98.07	83.00	98.23	1259.87	104.99

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	49.63	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	49.63	4.14
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	45.99	34.61	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	80.60	6.72
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	99.43	121.03	42.50	134.17	73.96	3.62	0.	0.	0.	0.	0.	0.	473.71	39.48
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	210.33	210.33	17.53
1958	155.03	0.	92.99	67.48	90.00	0.	0.	0.	0.	0.	0.	0.	405.50	33.79
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	372.35	64.33	144.51	56.37	0.	81.06	26.35	31.72	117.74	284.62	102.46	1282.02	106.84
1961	158.40	50.51	52.45	7.12	0.	0.	0.	0.	0.	0.	0.	104.19	372.67	31.06
1962	106.52	0.	0.	0.	19.81	0.	0.	0.	0.	0.	0.	78.97	265.30	22.11
1963	336.98	159.05	99.26	143.51	0.	0.	0.	0.	0.	0.	0.	300.15	1030.45	85.87
1964	241.62	72.49	84.19	0.	0.	0.	0.	0.	0.	0.	0.	0.	404.30	33.69
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	77.50	77.50	6.46
1966	127.65	0.	0.	33.40	0.	0.	0.	0.	0.	0.	33.28	75.79	270.12	22.51
1967	44.21	42.28	0.	0.	0.	0.	0.	0.	0.	0.	0.	102.05	188.54	15.71
1968	73.22	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	73.22	6.10
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	9.34	9.34	0.78
1970	217.97	311.35	45.72	139.51	27.22	0.	0.	0.	0.	0.	0.	85.12	826.79	68.90
1971	234.39	0.	0.	97.45	32.44	0.	0.	0.	0.	19.60	10.47	371.07	765.42	63.78
1972	4.83	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	64.35	69.18	5.77
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	114.35	392.68	507.03	42.25
TOTAL	1955.77	1164.68	472.94	767.15	300.30	3.62	81.06	26.35	31.72	137.34	442.72	1974.00	7361.65	613.47
MEAN	69.85	41.74	16.89	27.40	10.73	0.13	2.90	0.94	1.13	4.91	15.81	70.50	262.92	21.91

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	187.00	183.79	182.96	179.26	177.68	172.44	164.51	159.08	157.25	152.24	150.00	150.00	2016.19	168.02
1951	176.76	178.83	174.78	176.33	173.80	171.24	165.39	150.00	150.00	152.51	169.87	176.55	2016.06	168.00
1952	187.00	187.00	183.63	184.70	184.58	182.75	178.35	174.85	170.25	172.67	171.46	167.75	2145.00	178.75
1953	161.42	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	158.13	161.02	166.38	1846.96	153.91
1954	175.41	175.06	177.78	183.12	179.65	175.23	172.15	169.53	163.22	167.68	164.13	180.43	2083.39	173.62
1955	187.00	187.00	187.00	187.00	187.00	187.00	183.89	183.45	185.14	185.06	183.32	178.84	2221.70	185.14
1956	173.64	167.39	159.08	150.00	150.00	150.00	150.00	150.00	150.00	150.00	162.72	167.82	1880.65	156.72
1957	164.33	166.70	156.91	150.00	150.00	150.00	150.00	150.00	150.00	157.72	174.33	187.00	1906.98	158.92
1958	187.00	184.98	187.00	187.00	187.00	185.09	181.62	183.32	181.59	182.72	183.63	184.09	2215.04	184.59
1959	183.56	179.55	174.33	168.31	162.57	162.95	157.07	150.00	150.00	162.79	175.02	180.48	2006.63	167.22
1960	185.74	187.00	187.00	187.00	187.00	186.43	187.00	187.00	187.00	187.00	187.00	187.00	2242.17	186.85
1961	187.00	187.00	187.00	187.00	185.09	183.27	179.42	176.93	172.83	176.64	182.99	187.00	2192.18	182.68
1962	187.00	186.94	184.77	185.93	187.00	185.98	182.10	178.36	178.58	182.48	185.46	187.00	2211.60	184.30
1963	187.00	187.00	187.00	187.00	185.70	181.65	179.51	176.81	176.75	177.32	185.70	187.00	2198.44	183.20
1964	187.00	187.00	187.00	185.79	182.79	177.91	175.42	171.68	169.58	172.03	171.54	174.03	2141.77	178.48
1965	168.45	166.60	157.62	153.23	170.21	166.51	150.00	154.97	150.00	168.20	179.92	187.00	1972.72	164.39
1966	187.00	185.10	185.45	187.00	182.63	177.60	169.19	162.27	167.30	177.94	187.00	187.00	2155.47	179.62
1967	187.00	187.00	185.59	182.37	177.69	171.50	166.60	160.94	150.00	161.04	178.87	187.00	2095.59	174.63
1968	187.00	184.32	184.22	182.85	177.76	172.00	166.19	161.67	159.10	167.36	175.95	182.32	2100.74	175.06
1969	183.24	181.48	177.29	176.23	171.22	165.95	154.16	150.37	154.74	172.32	176.66	187.00	2050.64	170.89
1970	187.00	187.00	187.00	187.00	187.00	185.62	181.85	180.03	178.90	180.11	183.78	187.00	2212.28	184.36
1971	187.00	186.98	186.17	187.00	187.00	185.34	182.70	183.83	185.77	187.00	187.00	187.00	2232.78	186.06
1972	187.00	183.96	179.92	175.72	176.78	170.99	162.78	151.27	150.00	169.43	180.35	187.00	2075.20	172.93
1973	185.67	181.95	176.86	170.56	161.36	150.00	150.00	150.00	150.00	150.00	150.00	168.77	1945.18	162.10
1974	167.46	155.91	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	1823.37	151.95
1975	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	166.96	171.73	1838.69	153.22
1976	173.91	168.96	161.01	150.00	150.00	150.00	150.00	150.00	150.00	157.58	171.98	180.29	1913.73	159.48
1977	176.69	170.72	163.22	150.40	159.20	166.55	171.37	168.81	163.15	178.84	187.00	187.00	2042.95	170.25
TOTAL	5044.26	4985.21	4910.62	4850.81	4830.70	4763.98	4661.26	4585.18	4551.13	4706.82	4883.65	5010.47	57784.09	4815.34
MEAN	180.15	178.04	175.38	173.24	172.53	170.14	166.47	163.76	162.54	168.10	174.42	178.95	2063.72	171.98

Table 1.8 (1) Summary of Case III Study

Condition of study

(1) H.W.L. El. 200 m

(2) L.W.L. El. 175 m

(3) Firm power 10,000 kW

(4) Installed capacity 20,000 kW

(5) Combination of irrigation and hydropower
Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	20.00	20.00	16.80	20.00	13.02	20.00	20.00	20.00	15.87	19.20	10.00	10.00	204.89	17.07
1951	15.70	20.00	20.00	10.00	14.75	20.00	20.00	15.14	10.00	17.58	16.98	20.00	200.15	16.68
1952	10.00	20.00	20.00	14.43	19.50	20.00	20.00	20.00	19.03	20.00	20.00	20.00	222.95	18.58
1953	19.46	15.59	10.00	10.00	10.00	10.00	9.86	5.65	3.57	10.00	10.00	17.70	131.82	10.99
1954	18.17	20.00	14.56	10.00	20.00	20.00	20.00	18.57	10.00	19.03	19.04	17.74	207.10	17.26
1955	16.08	20.00	20.00	20.00	20.00	20.00	20.00	20.00	10.00	20.00	20.00	20.00	226.08	18.84
1956	20.00	20.00	20.00	12.52	10.00	10.00	10.00	10.00	10.00	10.00	14.63	18.36	165.52	13.79
1957	19.77	16.35	12.18	10.00	10.00	10.00	10.00	10.00	10.00	10.72	12.13	19.69	150.84	12.57
1958	20.00	20.00	20.00	20.00	20.00	20.00	20.00	17.15	15.50	20.00	20.00	20.00	232.65	19.39
1959	20.00	20.00	20.00	20.00	20.00	20.00	20.00	15.35	10.22	18.88	10.00	19.44	213.90	17.82
1960	12.34	20.00	20.00	20.00	18.11	20.00	20.00	20.00	14.34	20.00	20.00	20.00	224.79	18.73
1961	20.00	20.00	11.47	10.00	20.00	20.00	20.00	20.00	20.00	10.00	11.06	20.00	202.53	16.88
1962	20.00	20.00	20.00	12.92	20.00	20.00	20.00	20.00	14.96	20.00	20.00	20.00	227.88	18.99
1963	20.00	20.00	19.97	20.00	20.00	20.00	20.00	20.00	13.32	20.00	10.00	20.00	223.29	18.61
1964	20.00	20.00	20.00	14.97	20.00	20.00	20.00	20.00	17.61	15.49	20.00	20.00	228.07	19.01
1965	20.00	18.39	20.00	16.69	10.00	20.00	18.90	19.94	10.00	10.00	10.00	10.00	183.92	15.33
1966	20.00	20.00	14.84	14.62	20.00	20.00	20.00	20.00	10.00	10.00	10.00	19.30	198.75	16.56
1967	20.00	20.00	20.00	19.51	20.00	20.00	20.00	20.00	18.68	10.00	10.00	13.14	211.33	17.61
1968	20.00	20.00	16.22	17.49	20.00	20.00	20.00	20.00	14.34	14.75	16.05	20.00	218.86	18.24
1969	20.00	20.00	20.00	17.38	20.00	20.00	20.00	11.74	10.21	10.00	10.00	10.00	189.34	15.78
1970	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	16.50	20.00	18.67	20.00	235.17	19.60
1971	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	17.17	20.00	20.00	20.00	237.17	19.76
1972	20.00	20.00	20.00	20.00	17.31	20.00	20.00	19.96	10.00	10.00	10.00	12.56	199.83	16.65
1973	20.00	20.00	20.00	20.00	20.00	14.96	10.00	10.00	10.00	10.00	10.00	16.43	181.39	15.12
1974	20.00	17.57	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	132.57	11.05
1975	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	16.42	18.46	134.88	11.24
1976	20.00	20.00	10.00	10.00	10.00	10.00	10.00	6.70	6.55	10.00	16.88	19.21	149.35	12.45
1977	20.00	20.00	14.73	10.00	19.31	20.00	20.00	20.00	17.47	10.00	10.00	20.00	201.50	16.79
TOTAL	521.50	532.90	480.76	430.53	472.00	494.96	488.76	460.21	355.34	405.66	401.86	492.02	5536.50	461.38
MEAN	18.63	19.03	17.17	15.38	16.86	17.68	17.46	16.44	12.69	14.49	14.35	17.57	197.73	16.48

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	14.88	13.44	12.50	14.40	9.69	14.40	14.88	14.88	11.43	14.28	7.20	7.44	149.42	12.45
1951	11.68	13.44	14.88	7.20	10.97	14.40	14.88	11.26	7.20	13.08	12.23	14.88	146.10	12.18
1952	7.44	13.44	14.88	10.39	14.51	14.40	14.88	14.88	13.70	14.88	14.40	14.88	162.67	13.56
1953	14.48	10.47	7.44	7.20	7.44	7.20	7.33	4.20	2.57	7.44	7.20	13.17	96.15	8.01
1954	13.52	13.44	10.83	7.20	14.88	14.40	14.88	13.81	7.20	14.16	13.71	13.20	151.23	12.60
1955	11.96	13.44	14.88	14.40	14.88	14.40	14.88	14.88	7.20	14.88	14.40	14.88	165.08	13.76
1956	14.88	13.44	14.88	9.01	7.44	7.20	7.44	7.44	7.20	7.44	10.53	13.66	120.57	10.05
1957	14.71	10.99	9.06	7.20	7.44	7.20	7.44	7.44	7.20	7.98	8.73	14.65	110.03	9.17
1958	14.88	13.44	14.88	14.40	14.88	14.40	14.88	12.76	11.16	14.88	14.40	14.88	169.84	14.15
1959	14.88	13.44	14.88	14.40	14.88	14.40	14.88	11.42	7.36	14.05	7.20	14.46	156.26	13.02
1960	9.18	13.44	14.88	14.40	13.47	14.40	14.88	14.88	10.32	14.88	14.40	14.88	164.02	13.67
1961	14.88	13.44	8.53	7.20	14.88	14.40	14.88	14.88	14.40	7.44	7.96	14.88	147.78	12.31
1962	14.88	13.44	14.88	9.30	14.88	14.40	14.88	14.88	10.77	14.88	14.40	14.88	166.47	13.87
1963	14.88	13.44	14.85	14.40	14.88	14.40	14.88	14.88	9.59	14.88	7.20	14.88	163.17	13.60
1964	14.88	13.44	14.88	10.78	14.88	14.40	14.88	14.88	12.68	11.53	14.40	14.88	166.50	13.88
1965	14.88	12.36	14.88	12.02	7.44	14.40	14.06	14.83	7.20	7.44	7.20	7.44	134.15	11.18
1966	14.88	13.44	11.04	10.52	14.88	14.40	14.88	14.88	7.20	7.44	7.20	14.36	145.12	12.09
1967	14.88	13.44	14.88	14.05	14.88	14.40	14.88	14.88	13.45	7.44	7.20	9.77	154.15	12.85
1968	14.88	13.44	12.07	12.59	14.88	14.40	14.88	14.88	10.33	10.98	11.56	14.88	159.76	13.31
1969	14.88	13.44	14.88	12.51	14.88	14.40	14.88	8.74	7.35	7.44	7.20	7.44	138.04	11.50
1970	14.88	13.44	14.88	14.40	14.88	14.40	14.88	14.88	11.88	14.88	13.44	14.88	171.72	14.31
1971	14.88	13.44	14.88	14.40	14.88	14.40	14.88	14.88	12.37	14.88	14.40	14.88	173.17	14.43
1972	14.88	13.44	14.88	14.40	12.88	14.40	14.88	14.85	7.20	7.44	7.20	9.34	145.80	12.15
1973	14.88	13.44	14.88	14.40	14.88	10.77	7.44	7.44	7.20	7.44	7.20	12.22	132.19	11.02
1974	14.88	8.45	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	7.20	7.44	96.77	8.06
1975	7.44	6.72	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	11.82	13.73	98.51	8.21
1976	14.88	13.44	7.44	7.20	7.44	7.20	7.44	4.98	4.72	7.44	12.16	14.29	108.63	9.05
1977	14.88	13.44	10.96	7.20	14.36	14.40	14.88	14.88	12.58	7.44	7.20	14.88	147.10	12.26
TOTAL	388.00	358.11	357.69	309.98	351.17	356.37	363.64	342.39	255.85	301.81	289.34	366.06	4040.41	336.70
MEAN	13.86	12.79	12.77	11.07	12.54	12.73	12.99	12.23	9.14	10.78	10.33	13.07	144.30	12.03

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	105.94	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	140.62	71.97	75.51	1430.94	119.25
1951	106.40	123.20	141.69	59.81	91.38	149.56	182.76	108.21	72.31	131.38	114.77	132.17	1413.65	117.80
1952	57.01	95.98	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1499.88	124.99
1953	133.24	101.74	75.01	74.45	79.59	81.10	86.87	50.88	31.12	84.83	74.93	129.22	1002.98	83.58
1954	123.33	126.66	94.35	60.52	166.47	161.56	175.55	135.75	71.83	139.30	134.51	118.73	1508.54	125.71
1955	92.49	96.94	105.94	102.53	105.94	102.53	186.31	118.46	53.11	127.66	145.01	192.09	1429.01	119.08
1956	156.14	152.24	147.72	88.24	75.05	74.34	78.18	79.63	78.48	81.61	109.79	132.53	1253.95	104.50
1957	141.82	106.74	88.56	72.81	77.85	76.23	77.98	77.69	76.43	82.54	81.18	114.83	1074.68	89.56
1958	105.94	125.12	107.16	102.53	105.94	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1447.58	120.63
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	112.92	73.23	136.42	64.36	117.92	1548.71	129.06
1960	69.66	97.06	105.94	102.53	95.94	106.51	106.34	105.94	73.49	105.94	102.53	105.94	1177.83	98.15
1961	105.94	95.69	60.76	51.39	124.98	145.31	188.37	151.46	157.54	61.51	62.09	108.72	1313.77	109.48
1962	105.94	131.18	112.37	67.56	106.66	144.45	186.17	150.45	85.28	122.43	135.35	107.19	1455.01	121.25
1963	105.94	95.69	105.76	102.53	123.95	159.93	186.60	153.46	77.43	134.54	55.50	108.07	1409.41	117.45
1964	105.94	95.69	105.94	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1489.80	124.15
1965	155.49	110.77	142.89	118.44	70.04	131.21	134.60	147.34	71.90	71.43	62.38	57.37	1273.86	106.15
1966	107.10	132.58	80.18	75.61	165.46	166.56	196.82	151.16	66.01	64.11	56.21	104.20	1366.00	113.83
1967	105.94	95.69	142.05	102.89	164.46	163.56	150.50	150.62	128.87	72.00	62.81	74.17	1413.57	117.80
1968	105.94	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1542.88	128.57
1969	140.66	127.89	149.39	101.98	160.47	161.56	166.60	86.94	73.15	69.63	61.34	57.83	1357.44	113.12
1970	107.77	95.69	105.94	102.53	105.94	115.59	184.23	150.74	92.94	149.06	102.06	108.15	1420.65	118.39
1971	105.94	123.23	124.26	103.06	105.94	130.82	163.88	133.54	90.54	106.86	102.53	105.94	1396.54	116.38
1972	105.94	134.08	148.34	136.47	104.45	149.84	184.70	142.99	72.49	71.16	61.43	70.82	1382.72	115.23
1973	148.04	153.26	166.90	160.07	158.36	104.19	75.29	76.48	75.23	81.30	79.70	123.71	1402.54	116.88
1974	148.04	82.49	75.16	74.38	77.88	75.98	78.56	77.90	73.63	74.59	72.76	75.58	986.97	82.25
1975	75.00	58.52	77.73	77.89	84.38	84.30	88.49	88.96	85.32	86.53	125.93	132.71	1075.75	89.65
1976	141.80	133.78	73.34	72.76	77.49	78.83	86.84	60.15	57.12	84.69	120.92	124.94	1112.66	92.72
1977	147.92	152.46	106.22	72.47	143.18	139.79	144.09	148.88	116.28	65.83	55.42	106.58	1399.14	116.59
TOTAL	3257.73	3282.07	3120.95	2615.98	3205.44	3595.57	4140.39	3365.94	2372.03	2826.70	2661.82	3141.87	37586.47	3132.21
MEAN	116.35	117.22	111.46	93.43	114.48	128.41	147.87	120.21	84.72	100.95	95.07	112.21	1342.37	111.86

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	48.47	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	48.47	4.04
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	17.50	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	17.50	1.46
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	49.71	16.82	43.50	67.00	1.91	0.	0.	0.	0.	0.	0.	178.94	14.91
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	135.62	0.	20.94	12.50	88.39	0.	0.	0.	0.	0.	0.	0.	257.44	21.45
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	235.94	26.82	44.50	0.	0.	59.55	24.51	0.	80.47	180.90	98.61	751.30	62.61
1961	56.62	13.60	0.	0.	0.	0.	0.	0.	0.	0.	0.	36.07	106.28	8.86
1962	145.62	0.	0.	0.	13.83	0.	0.	0.	0.	0.	0.	61.21	220.65	18.39
1963	248.62	109.60	0.	44.50	0.	0.	0.	0.	0.	0.	0.	155.69	558.40	46.53
1964	240.46	77.26	15.82	0.	0.	0.	0.	0.	0.	0.	0.	0.	333.54	27.79
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	37.01	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	37.01	3.08
1967	43.05	41.05	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	84.10	7.01
1968	72.06	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	72.06	6.01
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	130.68	237.60	0.82	53.50	8.00	0.	0.	0.	0.	0.	0.	71.46	502.06	41.84
1971	226.62	0.	0.	30.62	7.00	0.	0.	0.	0.	8.88	9.27	334.61	616.99	51.42
1972	3.67	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.67	0.31
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	253.16	253.16	21.10
TOTAL	1388.49	782.26	81.22	229.11	184.21	1.91	59.55	24.51	0.	89.35	190.17	1010.80	4041.59	336.80
MEAN	49.59	27.94	2.90	8.18	6.58	0.07	2.13	0.88	0.	3.19	6.79	36.10	144.34	12.03

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	200.00	197.80	197.17	194.52	193.47	190.44	186.25	184.22	183.62	182.70	182.30	181.44	2273.93	189.49
1951	192.00	193.28	190.69	191.92	190.47	188.93	185.76	182.70	181.88	182.70	187.86	191.75	2259.95	188.33
1952	199.63	200.00	197.68	198.38	198.27	196.92	193.84	191.57	189.04	190.37	189.66	187.57	2332.94	194.41
1953	184.80	182.70	181.55	180.64	178.79	176.57	175.00	175.00	175.00	179.43	182.24	184.37	2156.08	179.67
1954	188.88	188.56	189.16	192.21	189.31	185.76	183.77	182.70	182.48	183.90	182.70	191.94	2241.37	186.78
1955	198.42	200.00	200.00	200.00	200.00	200.00	197.82	197.46	198.31	198.49	197.25	194.07	2381.80	198.48
1956	190.91	187.53	184.12	182.70	181.52	180.80	180.07	179.30	178.62	178.80	182.70	184.93	2191.99	182.67
1957	183.21	184.27	182.70	181.31	179.91	180.34	180.74	180.62	179.42	182.70	188.80	200.00	2204.01	183.67
1958	200.00	198.67	200.00	200.00	200.00	198.68	196.18	197.35	196.06	196.84	197.46	197.76	2378.95	198.25
1959	197.35	194.44	191.17	187.87	185.21	185.26	183.27	182.70	182.70	184.82	190.37	194.20	2259.38	188.28
1960	198.27	200.00	200.00	200.00	200.00	199.54	200.00	200.00	200.00	200.00	200.00	200.00	2397.82	199.82
1961	200.00	200.00	200.00	199.68	198.65	197.34	194.56	192.92	190.55	192.57	196.90	200.00	2363.17	196.93
1962	200.00	199.93	198.44	199.18	200.00	199.27	196.53	193.92	193.84	196.52	198.59	200.00	2376.23	198.02
1963	200.00	200.00	200.00	200.00	199.09	196.21	194.66	192.88	192.78	193.10	197.61	200.00	2366.33	197.19
1964	200.00	200.00	200.00	199.16	197.04	193.65	192.01	190.03	188.71	190.09	189.75	190.99	2331.42	194.29
1965	187.92	186.93	183.53	182.70	187.58	186.08	182.70	182.84	182.20	186.26	191.96	198.67	2239.37	186.61
1966	200.00	198.70	198.90	200.00	196.96	193.49	188.73	185.50	187.21	191.59	197.68	200.00	2338.75	194.90
1967	200.00	200.00	199.01	197.58	194.45	190.95	188.46	186.03	182.70	185.09	192.51	200.00	2316.79	193.07
1968	200.00	198.18	198.07	197.05	193.52	190.23	187.04	185.10	184.13	187.36	191.98	196.24	2308.89	192.41
1969	196.87	195.57	192.68	191.96	189.07	186.20	182.70	182.70	182.70	188.11	191.84	197.94	2278.36	189.86
1970	200.00	200.00	200.00	200.00	200.00	199.00	196.31	194.94	194.16	194.90	197.52	200.00	2376.84	198.07
1971	200.00	199.96	199.38	200.00	200.00	198.81	196.92	197.69	198.96	200.00	200.00	200.00	2391.71	199.31
1972	200.00	197.92	194.99	192.27	192.89	189.64	185.60	182.70	181.67	187.17	192.63	200.00	2297.49	191.46
1973	199.08	196.45	193.01	189.47	185.16	182.70	181.24	181.43	179.89	177.82	178.87	185.06	2230.19	185.85
1974	184.35	182.70	181.39	180.88	180.29	180.23	180.23	180.92	182.16	182.60	181.49	182.15	2179.40	181.62
1975	182.13	181.18	180.10	178.36	176.40	175.98	175.24	175.57	175.90	176.94	182.70	185.26	2145.77	178.81
1976	186.56	183.59	182.61	181.48	180.10	177.44	175.21	175.00	175.00	179.56	185.87	191.55	2173.97	181.16
1977	188.98	184.97	182.70	181.69	183.56	186.34	188.84	187.31	184.61	191.58	199.26	200.00	2259.85	188.32
TOTAL	5459.38	5433.28	5399.06	5381.02	5351.69	5306.79	5249.69	5221.13	5204.32	5262.02	5348.49	5435.88	64052.75	5337.73
MEAN	194.98	194.05	192.82	192.18	191.13	189.53	187.49	186.47	185.87	187.93	191.02	194.14	2287.60	190.63

Table 1.8 (2) Summary of Case III Study

Condition of study

(1) H.W.L. El. 200 m

(2) L.W.L. El. 175 m

(3) Firm power 10,000 kW

(4) Installed capacity 25,000 kW

(5) Combination of irrigation and hydropower
Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	25.00	25.00	16.80	25.00	13.02	25.00	25.00	21.51	15.87	19.20	10.00	10.00	231.40	19.28
1951	15.70	22.63	23.22	10.00	14.75	24.24	25.00	15.14	10.00	17.58	16.98	20.78	216.01	18.00
1952	10.00	25.00	25.00	14.43	19.50	25.00	25.00	25.00	19.03	22.95	22.50	21.02	254.43	21.20
1953	19.46	15.59	10.00	10.00	10.00	10.00	9.86	5.65	3.57	10.00	10.00	17.70	131.82	10.99
1954	18.17	21.58	14.56	10.00	25.00	25.00	24.86	18.57	10.00	19.03	19.04	17.74	223.54	18.63
1955	16.08	25.00	23.18	25.00	25.00	20.38	25.00	21.49	10.00	23.46	25.00	25.00	264.59	22.05
1956	25.00	25.00	21.40	12.52	10.00	10.00	10.00	10.00	10.00	10.00	14.63	18.36	176.92	14.74
1957	19.77	16.35	12.18	10.00	10.00	10.00	10.00	10.00	10.00	10.72	12.13	19.69	150.84	12.57
1958	25.00	25.00	23.91	22.44	25.00	25.00	25.00	17.15	15.50	23.65	25.00	24.95	277.59	23.13
1959	25.00	25.00	25.00	23.08	22.14	20.08	23.08	15.35	10.22	18.88	10.00	19.44	237.27	19.77
1960	12.34	25.00	25.00	25.00	18.11	20.70	25.00	25.00	14.34	25.00	25.00	25.00	265.49	22.12
1961	25.00	22.84	11.47	10.00	23.27	25.00	25.00	25.00	25.00	10.00	11.06	25.00	238.64	19.89
1962	25.00	25.00	20.93	12.92	25.00	25.00	25.00	25.00	14.96	21.28	25.00	25.00	270.09	22.51
1963	25.00	25.00	19.97	25.00	23.22	25.00	25.00	25.00	13.32	22.44	10.00	25.00	263.96	22.00
1964	25.00	25.00	22.99	14.97	23.58	25.00	23.14	23.99	17.61	15.49	25.00	22.82	264.58	22.05
1965	24.28	18.39	20.44	16.69	10.00	20.08	18.90	19.94	10.00	10.00	10.00	10.00	188.71	15.73
1966	25.00	25.00	14.84	14.62	25.00	25.00	25.00	22.51	10.00	10.00	10.00	19.30	226.26	18.85
1967	25.00	25.00	25.00	19.51	25.00	25.00	23.61	22.49	18.68	10.00	10.00	13.14	242.43	20.20
1968	25.00	25.00	16.22	17.49	25.00	25.00	25.00	22.50	14.34	14.75	16.05	23.66	250.02	20.83
1969	25.00	25.00	25.00	17.38	25.00	25.00	23.42	11.74	10.21	10.00	10.00	10.00	217.76	18.15
1970	25.00	25.00	20.15	25.00	21.51	22.36	25.00	25.00	16.50	25.00	18.67	25.00	274.20	22.85
1971	25.00	25.00	23.33	25.00	21.32	25.00	25.00	24.09	17.17	25.00	25.00	25.00	285.91	23.83
1972	25.00	25.00	25.00	23.83	17.31	25.00	25.00	19.96	10.00	10.00	10.00	12.56	228.66	19.06
1973	25.00	25.00	25.00	25.00	23.67	14.96	10.00	10.00	10.00	10.00	10.00	16.43	205.06	17.09
1974	20.93	12.57	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	133.51	11.13
1975	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	16.42	18.46	134.88	11.24
1976	20.58	21.11	10.00	10.00	10.00	10.00	10.00	6.70	6.55	10.00	16.88	19.21	151.05	12.59
1977	23.46	25.00	14.73	10.00	19.31	20.53	21.67	22.62	17.47	10.00	10.00	25.00	219.78	18.32
TOTAL	610.76	636.06	535.31	474.88	530.71	573.33	578.53	511.41	360.34	434.44	434.36	545.25	6225.37	518.78
MEAN	21.81	22.72	19.12	16.96	18.95	20.48	20.66	18.26	12.87	15.52	15.51	19.47	222.33	18.53

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	18.60	16.80	12.50	18.00	9.69	18.00	18.60	16.01	11.43	14.28	7.20	7.44	168.54	14.05
1951	11.68	15.21	17.27	7.20	10.97	17.45	18.60	11.26	7.20	13.08	12.23	15.46	157.61	13.13
1952	7.44	16.80	18.60	10.39	14.51	18.00	18.60	18.60	13.70	17.07	16.20	15.64	185.55	15.46
1953	14.48	10.47	7.44	7.20	7.44	7.20	7.33	4.20	2.57	7.44	7.20	13.17	96.15	8.01
1954	13.52	14.50	10.83	7.20	18.60	18.00	18.49	13.81	7.20	14.16	13.71	13.20	163.22	13.60
1955	11.96	16.80	17.24	18.00	18.60	14.67	18.60	15.99	7.20	17.46	18.00	18.60	193.12	16.09
1956	18.60	16.80	15.92	9.01	7.44	7.20	7.44	7.44	7.20	7.44	10.53	13.66	128.70	10.72
1957	14.71	10.99	9.06	7.20	7.44	7.20	7.44	7.44	7.20	7.98	8.73	14.65	110.03	9.17
1958	18.60	16.80	17.79	16.16	18.60	18.00	18.60	12.76	11.16	17.59	18.00	18.56	202.62	16.88
1959	18.60	16.80	18.60	16.62	16.47	14.46	17.17	11.42	7.36	14.05	7.20	14.46	173.21	14.43
1960	9.18	16.80	18.60	18.00	13.47	14.90	18.60	18.60	10.32	18.60	18.00	18.60	193.68	16.14
1961	18.60	15.35	8.53	7.20	17.31	18.00	18.60	18.60	18.00	7.44	7.96	18.60	174.20	14.52
1962	18.60	16.80	15.57	9.30	18.60	18.00	18.60	18.60	10.77	15.83	18.00	18.60	197.28	16.44
1963	18.60	16.80	14.85	18.00	17.28	18.00	18.60	18.60	9.59	16.70	7.20	18.60	192.82	16.07
1964	18.60	16.80	17.10	10.78	17.54	18.00	17.21	17.85	12.68	11.53	18.00	16.98	193.07	16.09
1965	18.06	12.36	15.21	12.02	7.44	14.46	14.06	14.83	7.20	7.44	7.20	7.44	137.71	11.48
1966	18.60	16.80	11.04	10.52	18.60	18.00	18.60	16.74	7.20	7.44	7.20	14.36	165.10	13.76
1967	18.60	16.80	18.60	14.05	18.60	18.00	17.56	16.73	13.45	7.44	7.20	9.77	176.81	14.73
1968	18.60	16.80	12.07	12.59	18.60	18.00	18.60	16.74	10.33	10.98	11.56	17.60	182.46	15.21
1969	18.60	16.80	18.60	12.51	18.60	18.00	17.43	8.74	7.35	7.44	7.20	7.44	158.71	13.23
1970	18.60	16.80	15.00	18.00	16.00	16.10	18.60	18.60	11.88	18.60	13.44	18.60	200.22	16.69
1971	18.60	16.80	17.56	18.00	15.86	18.00	18.60	17.92	12.37	18.60	18.00	18.60	208.71	17.39
1972	18.60	16.80	18.60	17.16	12.88	18.00	18.60	14.85	7.20	7.44	7.20	9.34	166.67	13.89
1973	18.60	16.80	18.60	18.00	17.61	10.77	7.44	7.44	7.20	7.44	7.20	12.22	149.32	12.44
1974	15.57	8.45	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	7.20	7.44	97.46	8.12
1975	7.44	6.72	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	11.82	13.73	98.51	8.21
1976	15.31	14.19	7.44	7.20	7.44	7.20	7.44	4.98	4.72	7.44	12.16	14.29	109.82	9.15
1977	17.45	16.80	10.96	7.20	14.36	14.78	16.12	16.83	12.58	7.44	7.20	18.60	160.32	13.36
TOTAL	454.40	427.43	398.27	341.91	394.84	412.80	430.42	380.49	259.45	323.23	312.74	405.67	4541.65	378.47
MEAN	16.23	15.27	14.22	12.21	14.10	14.74	15.37	13.59	9.27	11.54	11.17	14.49	162.20	13.52

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	132.43	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	140.62	71.97	75.51	1457.43	121.45
1951	106.40	123.20	141.69	59.81	91.38	149.56	182.76	108.21	72.31	131.38	114.77	132.17	1413.65	117.80
1952	57.01	119.97	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1523.87	126.99
1953	133.24	101.74	75.01	74.45	79.59	81.10	86.87	50.88	31.12	84.83	74.93	129.22	1002.98	83.58
1954	123.33	126.66	94.35	60.52	166.47	161.56	175.55	135.75	71.83	139.30	134.51	118.73	1508.54	125.71
1955	92.49	121.17	122.76	128.16	132.43	104.48	186.31	118.46	53.11	127.66	145.01	192.09	1524.13	127.01
1956	156.14	152.24	147.72	88.24	75.05	74.34	78.18	79.63	78.48	81.61	109.79	132.53	1253.95	104.50
1957	141.82	106.74	88.56	72.81	77.85	76.23	77.98	77.69	76.43	82.54	81.18	114.83	1074.68	89.56
1958	132.43	125.12	128.10	115.02	132.43	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1533.99	127.83
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	112.92	73.23	136.42	64.36	117.92	1548.71	129.06
1960	69.66	121.33	132.43	128.16	95.94	106.51	132.93	132.43	73.49	132.43	128.16	132.43	1385.89	115.49
1961	132.43	109.29	60.76	51.39	124.98	145.31	188.37	151.46	157.54	61.51	62.09	135.90	1381.04	115.09
1962	132.43	131.18	112.37	67.56	133.32	144.45	186.17	150.45	85.28	122.43	135.35	133.99	1534.96	127.91
1963	132.43	119.61	105.76	128.16	123.95	159.93	186.60	153.46	77.43	134.54	55.50	135.09	1512.46	126.04
1964	132.43	119.61	121.76	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1556.03	129.67
1965	155.49	110.77	142.89	118.44	70.04	131.21	134.60	147.34	71.90	71.43	62.38	57.37	1273.86	106.15
1966	133.87	132.58	80.18	75.61	165.46	166.56	196.82	151.16	66.01	64.11	56.21	104.20	1392.77	116.06
1967	132.43	119.61	142.05	102.89	164.46	163.56	150.50	150.62	128.87	72.00	62.81	74.17	1463.98	122.00
1968	132.43	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1569.37	130.78
1969	140.66	127.89	149.39	101.98	160.47	161.56	166.60	86.94	73.15	69.63	61.34	57.83	1357.44	113.12
1970	134.71	119.61	106.76	128.16	113.94	115.59	184.23	150.74	92.94	149.06	102.06	135.19	1533.00	127.75
1971	132.43	123.23	124.26	128.82	112.94	130.82	163.88	133.54	90.54	133.57	128.16	132.43	1534.62	127.88
1972	132.43	134.08	148.34	136.47	104.45	149.84	184.70	142.99	72.49	71.16	61.43	70.82	1409.20	117.43
1973	148.04	153.26	166.90	160.07	158.36	104.19	75.29	76.48	75.23	81.30	79.70	123.71	1402.54	116.88
1974	148.04	82.49	75.16	74.38	77.88	75.98	78.56	77.90	73.63	74.59	72.76	75.58	986.97	82.25
1975	75.00	68.52	77.73	77.89	84.38	84.30	88.49	88.96	85.32	86.53	125.93	132.71	1075.75	89.65
1976	141.80	133.78	73.34	72.76	77.49	78.83	86.84	60.15	57.12	84.69	.120.92	124.94	1112.66	92.72
1977	147.92	152.46	106.22	72.47	143.18	139.79	144.09	148.88	116.28	65.83	55.42	133.23	1425.78	118.82
TOTAL	3576.30	3463.85	3201.84	2756.77	3300.06	3597.52	4166.97	3392.42	2372.03	2879.90	2713.09	3329.52	38750.26	3229.19
MEAN	127.72	123.71	114.35	98.46	117.86	128.48	148.82	121.16	84.72	102.85	96.90	118.91	1383.94	115.33

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	48.47	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	48.47	4.04
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	17.50	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	17.50	1.46
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	25.48	0.	17.87	40.51	0.	0.	0.	0.	0.	0.	0.	83.86	6.99
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	109.13	0.	0.	0.	66.51	0.	0.	0.	0.	0.	0.	0.	175.64	14.64
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	211.68	0.34	18.87	0.	0.	32.97	5.90	0.	53.99	155.27	72.12	551.12	45.93
1961	30.13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.89	39.02	3.25
1962	119.13	0.	0.	0.	5.90	0.	0.	0.	0.	0.	0.	61.21	186.23	15.52
1963	222.13	85.68	0.	18.87	0.	0.	0.	0.	0.	0.	0.	128.67	455.35	37.95
1964	222.13	76.68	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	298.81	24.90
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	10.24	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	10.24	0.85
1967	43.05	41.05	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	84.10	7.01
1968	59.13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	59.13	4.93
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	103.74	213.68	0.	27.87	0.	0.	0.	0.	0.	0.	0.	64.02	409.31	34.11
1971	200.13	0.	0.	4.85	0.	0.	0.	0.	0.	8.88	9.27	308.12	531.26	44.27
1972	3.67	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.67	0.31
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	226.51	226.51	18.88
TOTAL	1171.09	671.73	0.34	88.32	112.92	0.	32.97	5.90	0.	62.86	164.54	869.55	3180.21	265.02
MEAN	41.82	23.99	0.01	3.15	4.03	0.	1.18	0.21	0.	2.25	5.88	31.06	113.58	9.46

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	200.00	200.00	197.80	197.17	194.52	193.47	190.44	186.32	184.27	183.67	182.73	182.33	2292.71	191.06
1951	181.46	192.01	193.28	190.69	191.93	190.48	188.98	185.84	182.73	181.91	182.73	187.95	2249.99	187.50
1952	191.76	199.64	200.00	197.68	198.38	198.27	196.92	193.84	191.57	189.08	190.37	189.67	2337.18	194.76
1953	187.66	184.85	182.73	181.57	180.65	178.79	176.57	175.00	175.00	175.00	179.43	182.26	2159.51	179.96
1954	184.42	188.92	188.62	189.20	192.21	189.34	185.83	183.83	182.73	182.51	183.95	182.73	2234.30	186.19
1955	191.94	198.44	200.00	200.00	200.00	200.00	200.00	197.82	197.46	198.31	198.49	197.25	2379.69	198.31
1956	194.07	190.91	187.61	184.17	182.73	181.54	180.81	180.07	179.30	178.62	178.81	182.73	2201.37	183.45
1957	184.98	183.25	184.32	182.73	181.32	179.91	180.34	180.75	180.63	179.42	182.73	188.85	2189.25	182.44
1958	200.00	200.00	198.62	200.00	200.00	200.00	198.68	196.18	197.35	196.06	196.84	197.46	2381.19	198.43
1959	197.76	197.35	194.44	191.17	187.95	185.27	185.33	183.31	182.73	182.73	184.89	190.39	2263.32	188.61
1960	194.22	198.28	200.00	200.00	200.00	200.00	199.54	200.00	200.00	200.00	200.00	200.00	2392.04	199.34
1961	200.00	200.00	200.00	200.00	199.68	198.65	197.34	194.56	192.92	190.55	192.57	196.90	2363.17	196.93
1962	200.00	200.00	199.93	198.44	199.18	200.00	199.27	196.53	193.92	193.84	196.52	198.59	2376.23	198.02
1963	200.00	200.00	200.00	200.00	200.00	199.09	196.21	194.66	192.88	192.78	193.10	197.61	2366.33	197.19
1964	200.00	200.00	200.00	200.00	199.16	197.04	193.65	192.01	190.03	188.76	190.09	189.76	2340.50	195.04
1965	190.99	188.01	187.01	183.58	182.73	187.67	186.16	182.73	182.89	182.25	186.36	191.99	2232.36	186.03
1966	198.69	200.00	198.70	198.90	200.00	196.96	193.49	188.78	185.56	187.30	191.60	197.69	2337.67	194.81
1967	200.00	200.00	200.00	199.01	197.58	194.45	190.95	188.52	186.10	182.73	185.15	192.52	2317.01	193.08
1968	200.00	200.00	198.18	198.07	197.05	193.52	190.23	187.12	185.16	184.18	187.45	191.99	2312.95	192.75
1969	196.25	196.88	195.58	192.69	191.97	189.12	186.28	182.73	182.73	182.73	188.19	191.84	2277.01	189.75
1970	197.94	200.00	200.00	200.00	200.00	200.00	199.00	196.31	194.94	194.16	194.90	197.52	2374.78	197.90
1971	200.00	200.00	199.96	199.38	200.00	200.00	198.81	196.92	197.69	198.96	200.00	200.00	2391.71	199.31
1972	200.00	200.00	197.92	194.99	192.27	192.89	189.66	185.66	182.73	181.69	187.25	192.64	2297.71	191.48
1973	200.00	199.08	196.45	193.01	189.49	185.22	182.73	181.26	181.45	179.90	177.83	178.88	2245.30	187.11
1974	185.12	184.41	182.73	181.41	180.89	180.29	180.23	180.24	180.94	182.20	182.64	181.52	2182.63	181.89
1975	182.19	182.17	181.22	180.13	178.40	176.44	176.03	175.29	175.62	175.95	177.01	182.73	2143.18	178.60
1976	185.32	186.63	183.63	182.65	181.50	180.11	177.46	175.23	175.00	175.00	179.56	185.93	2168.02	180.67
1977	191.56	189.03	185.03	182.73	181.71	183.60	186.41	188.89	187.40	184.68	191.60	199.27	2251.92	187.66
TOTAL	5436.31	5459.86	5433.76	5399.37	5381.33	5352.12	5307.36	5250.41	5221.77	5204.98	5262.78	5349.00	64059.05	5338.25
MEAN	194.15	195.00	194.06	192.83	192.19	191.15	189.55	187.51	186.49	185.89	187.96	191.04	2287.82	190.65

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	200.00	197.80	197.17	194.52	193.47	190.44	186.25	184.22	183.67	182.70	182.30	181.44	2273.93	189.49
1951	192.00	193.28	190.69	191.92	190.47	188.93	185.76	182.70	181.88	182.70	187.86	191.75	2259.95	188.33
1952	199.63	200.00	197.68	198.38	198.27	196.92	193.84	191.57	189.04	190.37	189.66	187.57	2332.94	194.41
1953	184.80	182.70	181.55	180.64	178.79	176.57	175.00	175.00	175.00	179.43	182.24	184.37	2156.08	179.67
1954	188.88	188.56	189.16	192.21	189.31	185.76	183.77	182.70	182.48	183.90	182.70	191.94	2241.37	186.78
1955	198.42	200.00	200.00	200.00	200.00	200.00	197.82	197.46	198.31	198.49	197.25	194.07	2381.80	198.48
1956	190.91	187.53	184.12	182.70	181.52	180.80	180.07	179.30	178.62	178.80	182.70	184.93	2191.99	182.67
1957	183.21	184.27	182.70	181.31	179.91	180.34	180.74	180.62	179.42	182.70	188.80	200.00	2204.01	183.67
1958	200.00	198.62	200.00	200.00	200.00	198.68	196.18	197.35	196.06	196.84	197.46	197.76	2378.95	198.25
1959	197.35	194.44	191.17	187.87	185.21	185.26	183.27	182.70	182.70	184.82	190.37	194.20	2259.38	188.28
1960	198.27	200.00	200.00	200.00	200.00	199.54	200.00	200.00	200.00	200.00	200.00	200.00	2397.82	199.82
1961	200.00	200.00	200.00	199.68	198.65	197.34	194.56	192.92	190.55	192.57	196.90	200.00	2363.17	196.93
1962	200.00	199.93	198.44	199.18	200.00	199.27	196.53	193.92	193.84	196.52	198.59	200.00	2376.23	198.02
1963	200.00	200.00	200.00	200.00	199.09	196.21	194.66	192.88	192.78	193.10	197.61	200.00	2366.33	197.19
1964	200.00	200.00	200.00	199.16	197.04	193.65	192.01	190.03	188.71	190.09	189.75	190.99	2331.42	194.29
1965	187.92	186.93	183.53	182.70	187.58	186.08	182.70	182.84	182.20	186.26	191.96	198.67	2239.37	186.61
1966	200.00	198.70	198.90	200.00	196.96	193.49	188.73	185.50	187.21	191.59	197.68	200.00	2338.75	194.90
1967	200.00	200.00	199.01	197.58	194.45	190.95	188.46	186.03	182.70	185.09	192.51	200.00	2316.79	193.07
1968	200.00	198.18	198.07	197.05	193.52	190.23	187.04	185.10	184.13	187.36	191.98	196.24	2308.89	192.41
1969	196.87	195.57	192.68	191.96	189.07	186.20	182.70	182.70	182.70	188.11	191.84	197.94	2278.36	189.86
1970	200.00	200.00	200.00	200.00	200.00	199.00	196.31	194.94	194.16	194.90	197.52	200.00	2376.84	198.07
1971	200.00	199.96	199.38	200.00	200.00	198.81	196.92	197.69	198.96	200.00	200.00	200.00	2391.71	199.31
1972	200.00	197.92	194.99	192.27	192.89	189.64	185.60	182.70	181.67	187.17	192.63	200.00	2297.49	191.46
1973	199.08	196.45	193.01	189.47	185.16	182.70	181.24	181.43	179.89	177.82	178.87	185.06	2230.19	185.85
1974	184.35	182.70	181.39	180.88	180.29	180.23	180.23	180.92	182.16	182.60	181.49	182.15	2179.40	181.62
1975	182.13	181.18	180.10	178.36	176.40	175.98	175.24	175.57	175.90	176.94	182.70	185.26	2145.77	178.81
1976	186.56	183.59	182.61	181.48	180.10	177.44	175.21	175.00	175.00	179.56	185.87	191.55	2173.97	181.16
1977	188.98	184.97	182.70	181.69	183.56	186.34	188.84	187.31	184.61	191.58	199.26	200.00	2259.85	188.32
TOTAL	5459.38	5433.28	5399.06	5381.02	5351.69	5306.79	5249.69	5221.13	5204.32	5262.02	5348.49	5435.88	64052.75	5337.73
MEAN	194.98	194.05	192.82	192.18	191.13	189.53	187.49	186.47	185.87	187.93	191.02	194.14	2287.60	190.63

Table 1.8 (3) Summary of Case III Study

Condition of study

(1) H.W.L. El. 200 m

(2) L.W.L. El. 175 m

(3) Firm power 10,000 kW

(4) Installed capacity 30,000 kW

(5) Combination of irrigation and hydropower
Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	30.00	27.84	16.80	25.90	13.02	25.31	27.30	21.51	15.87	19.20	10.00	10.00	242.75	20.23
1951	15.70	22.63	23.22	10.00	14.75	24.24	27.34	15.14	10.00	17.58	16.98	20.78	218.36	18.20
1952	10.00	29.26	26.81	14.43	19.50	27.11	30.00	25.82	19.03	22.95	22.50	21.02	268.43	22.37
1953	19.46	15.59	10.00	10.00	10.00	10.00	9.86	5.65	3.57	10.00	10.00	17.70	131.82	10.99
1954	18.17	21.58	14.56	10.00	26.65	25.07	24.86	18.57	10.00	19.03	19.04	17.74	225.26	18.77
1955	16.08	30.00	23.18	28.49	30.00	20.38	30.00	21.49	10.00	23.46	27.29	30.00	290.37	24.20
1956	25.83	26.19	21.40	12.52	10.00	10.00	10.00	10.00	10.00	10.00	14.63	18.36	178.94	14.91
1957	19.77	16.35	12.18	10.00	10.00	10.00	10.00	10.00	10.00	10.72	12.13	19.69	150.84	12.57
1958	30.00	25.85	23.91	22.44	30.00	25.20	30.00	17.15	15.50	23.65	25.90	24.95	294.55	24.55
1959	26.52	29.72	25.13	23.08	22.14	20.08	23.08	15.35	10.22	18.88	10.00	19.44	243.64	20.30
1960	12.34	30.00	25.06	28.68	18.11	20.70	30.00	26.11	14.34	30.00	30.00	30.00	295.34	24.61
1961	30.00	22.84	11.47	10.00	23.27	27.41	30.00	25.64	26.55	10.00	11.06	26.64	254.88	21.24
1962	30.00	27.40	20.93	12.92	26.11	28.01	30.00	26.17	14.96	21.28	25.34	30.00	293.11	24.43
1963	30.00	30.00	19.97	28.68	23.22	29.99	30.00	26.00	13.32	22.44	10.00	30.00	293.62	24.47
1964	30.00	30.00	22.99	14.97	23.58	29.82	23.14	23.99	17.61	15.49	27.65	22.82	282.05	23.50
1965	24.28	18.39	20.44	16.69	10.00	20.08	18.90	19.94	10.00	10.00	10.00	10.00	188.71	15.73
1966	26.91	27.41	14.84	14.62	30.00	29.94	30.00	22.51	10.00	10.00	10.00	19.30	245.52	20.46
1967	30.00	30.00	26.60	19.51	29.01	28.07	23.61	22.49	18.68	10.00	10.00	13.14	261.11	21.76
1968	30.00	28.72	16.22	17.49	29.86	27.97	28.52	22.50	14.34	14.75	16.05	23.66	270.08	22.51
1969	25.05	25.07	25.48	17.38	25.57	25.13	23.42	11.74	10.21	10.00	10.00	10.00	219.06	18.26
1970	30.00	30.00	20.15	30.00	21.51	22.36	30.00	26.41	16.50	25.61	18.67	30.00	301.21	25.10
1971	30.00	25.75	23.33	25.94	21.32	25.27	29.85	24.09	17.17	29.38	29.73	30.00	311.84	25.99
1972	28.23	27.55	26.37	23.83	17.31	25.03	27.78	19.96	10.00	10.00	10.00	12.56	238.62	19.88
1973	27.74	30.00	28.77	26.73	23.67	14.96	10.00	10.00	10.00	10.00	10.00	16.43	218.29	18.19
1974	20.93	12.57	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	133.51	11.13
1975	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	16.42	18.46	134.88	11.24
1976	20.58	21.11	10.00	10.00	10.00	10.00	10.00	6.70	6.55	10.00	16.88	19.21	151.05	12.59
1977	23.46	25.06	14.73	10.00	19.31	20.53	21.67	22.62	17.47	10.00	10.00	30.00	224.84	18.74
TOTAL	671.04	696.88	544.53	494.29	557.90	602.65	639.31	517.55	361.89	444.43	450.28	581.89	6562.64	546.89
MEAN	23.97	24.89	19.45	17.65	19.93	21.52	22.83	18.48	12.92	15.87	16.08	20.78	234.38	19.53

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	22.32	18.71	12.50	18.65	9.69	18.22	20.31	16.01	11.43	14.28	7.20	7.44	176.75	14.73
1951	11.68	15.21	17.27	7.20	10.97	17.45	20.34	11.26	7.20	13.08	12.23	15.46	159.36	13.28
1952	7.44	19.66	19.95	10.39	14.51	19.52	22.32	19.21	13.70	17.07	16.20	15.64	195.61	16.30
1953	14.48	10.47	7.44	7.20	7.44	7.20	7.33	4.20	2.57	7.44	7.20	13.17	96.15	8.01
1954	13.52	14.50	10.83	7.20	19.83	18.05	18.49	13.81	7.20	14.16	13.71	13.20	164.50	13.71
1955	11.96	20.16	17.24	20.51	22.32	14.67	22.32	15.99	7.20	17.46	19.65	22.32	211.81	17.65
1956	19.22	17.60	15.92	9.01	7.44	7.20	7.44	7.44	7.20	7.44	10.53	13.66	130.11	10.84
1957	14.71	10.99	9.06	7.20	7.44	7.20	7.44	7.44	7.20	7.98	8.73	14.65	110.03	9.17
1958	22.32	17.37	17.79	16.16	22.32	18.15	22.32	17.76	11.16	17.59	18.65	18.56	215.14	17.93
1959	19.73	19.97	18.70	16.62	16.47	14.46	17.17	11.42	7.36	14.05	7.20	14.46	177.60	14.80
1960	9.18	20.16	18.65	20.65	13.47	14.90	22.32	19.43	10.32	22.32	21.60	22.32	215.33	17.94
1961	22.32	15.35	8.53	7.20	17.31	19.74	22.32	19.08	19.12	7.44	7.96	19.82	186.19	15.52
1962	22.32	18.42	15.57	9.30	19.42	20.17	22.32	19.47	10.77	15.83	18.24	22.32	214.15	17.85
1963	22.32	20.16	14.85	20.65	17.28	21.59	22.32	19.34	9.59	16.70	7.20	22.32	214.33	17.86
1964	22.32	20.16	17.10	10.78	17.54	21.47	17.21	17.85	12.68	11.53	19.91	16.98	205.52	17.13
1965	18.06	12.36	15.21	12.02	7.44	14.46	14.06	14.83	7.20	7.44	7.20	7.44	137.71	11.48
1966	20.02	18.42	11.04	10.52	22.32	21.55	22.32	16.74	7.20	7.44	7.20	14.36	179.14	14.93
1967	22.32	20.16	19.79	14.05	21.58	20.21	17.56	16.73	13.45	7.44	7.20	9.77	190.27	15.86
1968	22.32	19.30	12.07	12.59	22.21	20.14	21.22	16.74	10.33	10.98	11.56	17.60	197.05	16.42
1969	18.64	16.85	18.96	12.51	19.03	18.09	17.43	8.74	7.35	7.44	7.20	7.44	159.67	13.31
1970	22.32	20.16	15.00	21.60	16.00	16.10	22.32	19.65	11.88	19.05	13.44	22.32	219.84	18.32
1971	22.32	17.30	17.36	18.68	15.86	18.19	22.21	17.92	12.37	21.86	21.41	22.32	227.80	18.98
1972	21.01	18.51	19.62	17.16	12.88	18.02	20.67	14.85	7.20	7.44	7.20	9.34	173.89	14.49
1973	20.64	20.16	21.41	19.24	17.61	10.77	7.44	7.44	7.20	7.44	7.20	12.22	158.77	13.23
1974	15.57	8.45	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	7.20	7.44	97.46	8.12
1975	7.44	6.72	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	11.82	13.73	98.51	8.21
1976	15.31	14.19	7.44	7.20	7.44	7.20	7.44	4.98	4.72	7.44	12.16	14.29	109.82	9.15
1977	17.45	16.84	10.96	7.20	14.36	14.78	16.12	16.83	12.58	7.44	7.20	22.32	164.08	13.67
TOTAL	499.25	468.30	405.13	355.89	415.08	433.91	475.65	385.06	260.56	330.66	324.20	432.92	4786.61	398.88
MEAN	17.83	16.73	14.47	12.71	14.82	15.50	16.99	13.75	9.31	11.81	11.58	15.46	170.95	14.25

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	158.91	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	140.62	71.97	75.51	1483.91	123.66
1951	106.40	123.20	141.69	59.81	91.38	149.56	182.76	108.21	72.31	131.38	114.77	132.17	1413.65	117.80
1952	57.01	140.41	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1544.32	128.69
1953	133.24	101.74	75.01	74.45	79.59	81.10	86.87	50.88	31.12	84.83	74.93	129.22	1002.98	83.58
1954	123.33	126.66	94.35	60.52	166.47	161.56	175.55	135.75	71.83	139.30	134.51	118.73	1508.54	125.71
1955	92.49	145.41	122.76	146.02	158.91	104.48	186.31	118.46	53.11	127.66	145.01	192.09	1592.72	132.73
1956	156.14	152.24	147.72	88.24	75.05	74.34	78.18	79.63	78.48	81.61	109.79	132.53	1253.95	104.50
1957	141.82	106.74	88.56	72.81	77.85	76.23	77.98	77.69	76.43	82.54	81.18	114.83	1074.68	89.56
1958	158.91	125.12	128.10	115.02	158.91	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1586.96	132.25
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	112.92	73.23	136.42	64.36	117.92	1548.71	129.06
1960	69.66	145.59	132.76	147.02	95.94	106.51	159.51	138.33	73.49	158.91	153.79	158.91	1540.44	128.37
1961	158.91	109.29	60.76	51.39	124.98	145.31	188.37	151.46	157.54	61.51	62.09	144.79	1416.41	118.03
1962	158.91	131.18	112.37	67.56	139.22	144.45	186.17	150.45	85.28	122.43	135.35	160.79	1594.14	132.85
1963	158.91	143.54	105.76	147.02	123.95	159.93	186.60	153.46	77.43	134.54	55.50	162.11	1608.76	134.06
1964	158.91	143.54	121.76	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1606.44	133.87
1965	155.49	110.77	142.89	118.44	70.04	131.21	134.60	147.34	71.90	71.43	62.38	57.37	1273.86	106.15
1966	144.11	132.58	80.18	75.61	165.46	166.56	196.82	151.16	66.01	64.11	56.21	104.20	1403.01	116.92
1967	158.91	143.54	142.05	102.89	164.46	163.56	150.50	150.62	128.87	72.00	62.81	74.17	1514.39	126.20
1968	158.91	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1595.86	132.99
1969	140.66	127.89	149.39	101.98	160.47	161.56	166.60	86.94	73.15	69.63	61.34	57.83	1357.44	113.12
1970	161.65	143.54	106.76	153.79	113.94	115.59	184.23	150.74	92.94	149.06	102.06	162.23	1636.53	136.38
1971	158.91	123.23	124.26	133.67	112.94	130.82	163.88	133.54	90.54	156.98	152.42	158.91	1640.12	136.68
1972	149.56	134.08	148.34	136.47	104.45	149.84	184.70	142.99	72.49	71.16	61.43	70.82	1426.33	118.86
1973	148.04	153.26	166.90	160.07	158.36	104.19	75.29	76.48	75.23	81.30	79.70	123.71	1402.54	116.88
1974	148.04	82.49	75.16	74.38	77.88	75.98	78.56	77.90	73.63	74.59	72.76	75.58	986.97	82.25
1975	75.00	68.52	77.73	77.89	84.38	84.30	88.49	88.96	85.32	86.53	125.93	132.71	1075.75	89.65
1976	141.80	133.78	73.34	72.76	77.49	78.83	86.84	60.15	57.12	84.69	120.92	124.94	1112.66	92.72
1977	147.92	152.46	106.22	72.47	143.18	139.79	144.09	148.88	116.28	65.83	55.42	159.87	1452.43	121.04
TOTAL	3868.98	3628.48	3202.17	2842.86	3358.93	3597.52	4193.56	3398.32	2372.03	2929.80	2762.98	3498.88	39654.51	3304.54
MEAN	138.18	129.59	114.36	101.53	119.96	128.48	149.77	121.37	84.72	104.64	98.68	124.96	1416.23	118.02

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	30.64	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	30.64	2.55
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	1.24	0.	0.	14.02	0.	0.	0.	0.	0.	0.	0.	15.27	1.27
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	82.64	0.	0.	0.	40.02	0.	0.	0.	0.	0.	0.	0.	122.67	10.22
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	187.41	0.	0.	0.	0.	6.38	0.	0.	27.50	129.64	45.63	396.57	33.05
1961	3.64	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.64	0.30
1962	92.64	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	37.73	130.37	10.86
1963	195.64	61.75	0.	0.	0.	0.	0.	0.	0.	0.	0.	101.65	359.05	29.92
1964	195.64	52.75	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	248.40	20.70
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1967	28.64	20.75	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	49.40	4.12
1968	32.64	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	32.64	2.72
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	76.80	189.75	0.	2.24	0.	0.	0.	0.	0.	0.	0.	36.99	305.77	25.48
1971	173.64	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	281.63	455.28	37.94
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	199.87	199.87	16.66
TOTAL	912.60	513.67	0.	2.24	54.05	0.	6.38	0.	0.	27.50	129.64	703.51	2349.58	195.80
MEAN	32.59	18.35	0.	0.08	1.93	0.	0.23	0.	0.	0.98	4.63	25.13	83.91	6.99

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	200.00	197.80	197.17	194.52	193.47	190.44	186.25	184.22	183.62	182.70	182.30	181.44	2273.93	189.49
1951	192.00	193.28	190.69	191.92	190.47	188.93	185.76	182.70	181.88	182.70	187.86	191.75	2259.95	188.33
1952	199.63	200.00	197.68	198.38	198.27	196.92	193.84	191.57	189.04	190.37	189.66	187.57	2332.94	194.41
1953	184.80	182.70	181.55	180.64	178.79	176.57	175.00	175.00	175.00	179.43	182.24	184.37	2156.08	179.67
1954	188.88	188.56	189.16	192.21	189.31	185.76	183.77	182.70	182.48	183.90	182.70	191.94	2241.37	186.78
1955	198.42	200.00	200.00	200.00	200.00	200.00	197.82	197.46	198.31	198.49	197.25	194.07	2381.80	198.48
1956	190.91	187.53	184.12	182.70	181.52	180.80	180.07	179.30	178.62	178.80	182.70	184.93	2191.99	182.67
1957	183.21	184.27	182.70	181.31	179.91	180.34	180.74	180.62	179.42	182.70	188.80	200.00	2204.01	183.67
1958	200.00	198.62	200.00	200.00	200.00	198.68	196.18	197.35	196.06	196.84	197.46	197.76	2378.95	198.25
1959	197.35	194.44	191.17	187.87	185.21	185.26	183.27	182.70	182.70	184.82	190.37	194.20	2259.38	188.28
1960	198.27	200.00	200.00	200.00	200.00	199.54	200.00	200.00	200.00	200.00	200.00	200.00	2397.82	199.82
1961	200.00	200.00	200.00	199.68	198.65	197.34	194.56	192.92	190.55	192.57	196.90	200.00	2363.17	196.93
1962	200.00	199.93	198.44	199.18	200.00	199.27	196.53	193.92	193.84	196.52	198.59	200.00	2376.23	198.02
1963	200.00	200.00	200.00	200.00	199.09	196.21	194.66	192.88	192.78	193.10	197.61	200.00	2366.33	197.19
1964	200.00	200.00	200.00	199.16	197.04	193.65	192.01	190.03	188.71	190.09	189.75	190.99	2331.42	194.29
1965	187.92	186.93	183.53	182.70	187.58	186.08	182.70	182.84	182.20	186.26	191.96	198.67	2239.37	186.61
1966	200.00	198.70	198.90	200.00	196.96	193.49	188.73	185.50	187.21	191.59	197.68	200.00	2338.75	194.90
1967	200.00	200.00	199.01	197.58	194.45	190.95	188.46	186.03	182.70	185.09	192.51	200.00	2316.79	193.07
1968	200.00	198.18	198.07	197.05	193.52	190.23	187.04	185.10	184.13	187.36	191.98	196.24	2308.89	192.41
1969	196.87	195.57	192.68	191.96	189.07	186.20	182.70	182.70	182.70	188.11	191.84	197.94	2278.36	189.86
1970	200.00	200.00	200.00	200.00	200.00	199.00	196.31	194.94	194.16	194.90	197.52	200.00	2376.84	198.07
1971	200.00	199.96	199.38	200.00	200.00	198.81	196.92	197.69	198.96	200.00	200.00	200.00	2391.71	199.31
1972	200.00	197.92	194.99	192.27	192.89	189.64	185.60	182.70	181.67	187.17	192.63	200.00	2297.49	191.46
1973	199.08	196.45	193.01	189.47	185.16	182.70	181.24	181.43	179.89	177.82	178.87	185.06	2230.19	185.85
1974	184.35	182.70	181.39	180.88	180.29	180.23	180.23	180.92	182.16	182.60	181.49	182.15	2179.40	181.62
1975	182.13	181.18	180.10	178.36	176.40	175.98	175.24	175.57	175.90	176.94	182.70	185.26	2145.77	178.81
1976	186.56	183.59	182.61	181.48	180.10	177.44	175.21	175.00	175.00	179.56	185.87	191.55	2173.97	181.16
1977	188.98	184.97	182.70	181.69	183.56	186.34	188.84	187.31	184.61	191.58	199.26	200.00	2259.85	188.32
TOTAL	5459.38	5433.28	5399.06	5381.02	5351.69	5306.79	5249.69	5221.13	5204.32	5262.02	5348.49	5435.88	64052.75	5337.73
MEAN	194.98	194.05	192.82	192.18	191.13	189.53	187.49	186.47	185.87	187.93	191.02	194.14	2287.60	190.63

Table 1.8 (4) Summary of Case III Study

Condition of study

(1) H.W.L. El. 200 m

(2) L.W.L. El. 175 m

(3) Firm power 10,000 kW

(4) Installed capacity 35,000 kW

(5) Combination of irrigation and hydropower
Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	35.00	27.84	16.80	25.90	13.02	25.31	27.30	21.51	15.87	19.20	10.00	10.00	247.75	20.65
1951	15.70	22.63	23.22	10.00	14.75	24.24	27.34	15.14	10.00	17.58	16.98	20.78	218.36	18.20
1952	10.00	29.26	26.81	14.43	19.50	27.11	31.73	25.82	19.03	22.95	22.50	21.02	270.16	22.51
1953	19.46	15.59	10.00	10.00	10.00	10.00	9.86	5.65	3.57	10.00	10.00	17.70	131.82	10.99
1954	18.17	21.58	14.56	10.00	26.65	25.07	24.86	18.57	10.00	19.03	19.04	17.74	225.26	18.77
1955	16.08	30.26	23.18	28.49	32.65	20.38	34.54	21.49	10.00	23.46	27.29	33.67	301.48	25.12
1956	25.83	26.19	21.40	12.52	10.00	10.00	10.00	10.00	10.00	10.00	14.63	18.36	178.94	14.91
1957	19.77	16.35	12.18	10.00	10.00	10.00	10.00	10.00	10.00	10.72	12.13	19.69	150.84	12.57
1958	35.00	25.85	23.91	22.44	35.00	25.20	32.61	17.15	15.50	23.65	25.90	24.95	307.16	25.60
1959	26.52	29.72	25.13	23.08	22.14	20.08	23.08	15.35	10.22	18.88	10.00	19.44	243.64	20.30
1960	12.34	35.00	25.06	28.68	18.11	20.70	31.20	26.11	14.34	35.00	35.00	35.00	316.54	26.38
1961	30.69	22.84	11.47	10.00	23.27	27.41	33.19	25.64	26.55	10.00	11.06	26.64	258.76	21.56
1962	35.00	27.40	20.93	12.92	26.11	28.01	33.93	26.17	14.96	21.28	25.34	35.00	307.04	25.59
1963	35.00	35.00	19.97	28.68	23.22	29.99	32.58	26.00	13.32	22.44	10.00	35.00	311.20	25.93
1964	35.00	35.00	22.99	14.97	23.58	29.82	23.14	23.99	17.61	15.49	27.65	22.82	292.05	24.34
1965	24.28	18.39	20.44	16.69	10.00	20.08	18.90	19.94	10.00	10.00	10.00	10.00	188.71	15.73
1966	26.91	27.41	14.84	14.62	30.45	29.94	31.73	22.51	10.00	10.00	10.00	19.30	247.70	20.64
1967	35.00	34.34	26.60	19.51	29.01	28.07	23.61	22.49	18.68	10.00	10.00	13.14	270.45	22.54
1968	35.00	28.72	16.22	17.49	29.86	27.97	28.52	22.50	14.34	14.75	16.05	23.66	275.08	22.92
1969	25.05	25.07	25.48	17.38	25.57	25.13	23.42	11.74	10.21	10.00	10.00	10.00	219.06	18.26
1970	35.00	35.00	20.15	30.44	21.51	22.36	33.43	26.41	16.50	25.61	18.67	35.00	320.08	26.67
1971	35.00	25.75	23.33	25.94	21.32	25.27	29.85	24.09	17.17	29.38	29.73	35.00	321.84	26.82
1972	28.23	27.55	26.37	23.83	17.31	25.03	27.78	19.96	10.00	10.00	10.00	12.56	238.62	19.88
1973	27.74	30.85	28.77	26.73	23.67	14.96	10.00	10.00	10.00	10.00	10.00	16.43	219.14	18.26
1974	20.93	12.57	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	133.51	11.13
1975	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	16.42	18.46	134.88	11.24
1976	20.58	21.11	10.00	10.00	10.00	10.00	10.00	6.70	6.55	10.00	16.88	19.21	151.05	12.59
1977	23.46	25.06	14.73	10.00	19.31	20.53	21.67	22.62	17.47	10.00	10.00	35.00	229.84	19.15
TOTAL	716.73	722.33	544.53	494.73	566.00	602.65	664.26	517.55	361.89	449.43	455.28	615.56	6710.93	559.24
MEAN	25.60	25.80	19.45	17.67	20.21	21.52	23.72	18.48	12.92	16.05	16.26	21.98	239.68	19.97

* MORAGAHAKANDA POWER STATION
*. MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	26.04	18.71	12.50	18.65	9.69	18.22	20.31	16.01	11.43	14.28	7.20	7.44	180.47	15.04
1951	11.68	15.21	17.27	7.20	10.97	17.45	20.34	11.26	7.20	13.08	12.23	15.46	159.36	13.28
1952	7.44	19.66	19.95	10.39	14.51	19.52	23.61	19.21	13.70	17.07	16.20	15.64	196.90	16.41
1953	14.48	10.47	7.44	7.20	7.44	7.20	7.33	4.20	2.57	7.44	7.20	13.17	96.15	8.01
1954	13.52	14.50	10.83	7.20	19.83	18.05	18.49	13.81	7.20	14.16	13.71	13.20	164.50	13.71
1955	11.96	20.33	17.24	20.51	24.29	14.67	25.70	15.99	7.20	17.46	19.65	25.05	220.05	18.34
1956	19.22	17.60	15.92	9.01	7.44	7.20	7.44	7.44	7.20	7.44	10.53	13.66	130.11	10.84
1957	14.71	10.99	9.06	7.20	7.44	7.20	7.44	7.44	7.20	7.98	8.73	14.65	110.03	9.17
1958	26.04	17.37	17.79	16.16	26.04	18.15	24.26	12.76	11.16	17.59	18.65	18.56	224.53	18.71
1959	19.73	19.97	18.70	16.62	16.47	14.46	17.17	11.42	7.36	14.05	7.20	14.46	177.60	14.80
1960	9.18	23.52	18.65	20.65	13.47	14.90	23.21	19.43	10.32	26.04	25.20	26.04	230.62	19.22
1961	22.83	15.35	8.53	7.20	17.31	19.74	24.69	19.08	19.12	7.44	7.96	19.82	189.07	15.76
1962	26.04	18.42	15.57	9.30	19.42	20.17	25.24	19.47	10.77	15.83	18.24	26.04	224.52	18.71
1963	26.04	23.52	14.85	20.65	17.28	21.59	24.24	19.34	9.59	16.70	7.20	26.04	227.05	18.92
1964	26.04	23.52	17.10	10.78	17.54	21.47	17.21	17.85	12.68	11.53	19.91	16.98	212.60	17.72
1965	18.06	12.36	15.21	12.02	7.44	14.46	14.06	14.83	7.20	7.44	7.20	7.44	137.71	11.48
1966	20.02	18.42	11.04	10.52	22.66	21.55	23.61	16.74	7.20	7.44	7.20	14.36	180.76	15.06
1967	26.04	23.07	19.79	14.05	21.58	20.21	17.56	16.73	13.45	7.44	7.20	9.77	196.91	16.41
1968	26.04	19.30	12.07	12.59	22.21	20.14	21.22	16.74	10.33	10.98	11.56	17.60	200.77	16.73
1969	18.64	16.85	18.96	12.51	19.03	18.09	17.43	8.74	7.35	7.44	7.20	7.44	159.67	13.31
1970	26.04	23.52	15.00	21.91	16.00	16.10	24.87	19.65	11.88	19.05	13.44	26.04	233.51	19.46
1971	26.04	17.30	17.36	18.68	15.86	18.19	22.21	17.92	12.37	21.86	21.41	26.04	235.24	19.60
1972	21.01	18.51	19.62	17.16	12.88	18.02	20.67	14.85	7.20	7.44	7.20	9.34	173.89	14.49
1973	20.64	20.73	21.41	19.24	17.61	10.77	7.44	7.44	7.20	7.44	7.20	12.22	159.34	13.28
1974	15.57	8.45	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	7.20	7.44	97.46	8.12
1975	7.44	6.72	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	11.82	13.73	98.51	8.21
1976	15.31	14.19	7.44	7.20	7.44	7.20	7.44	4.98	4.72	7.44	12.16	14.29	109.82	9.15
1977	17.45	16.84	10.96	7.20	14.36	14.78	16.12	16.83	12.58	7.44	7.20	26.04	167.80	13.98
TOTAL	533.24	485.40	405.13	356.20	421.11	433.91	494.21	385.06	260.56	334.38	327.80	457.97	4894.97	407.91
MEAN	19.04	17.34	14.47	12.72	15.04	15.50	17.65	13.75	9.31	11.94	11.71	16.36	174.82	14.57

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	185.40	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	140.62	71.97	75.51	1510.40	125.87
1951	106.40	123.20	141.69	59.81	91.38	149.56	182.76	108.21	72.31	131.38	114.77	132.17	1413.65	117.80
1952	57.01	140.41	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1544.32	128.69
1953	133.24	101.74	75.01	74.45	79.59	81.10	86.87	50.88	31.12	84.83	74.93	129.22	1002.98	83.58
1954	123.33	126.66	94.35	60.52	166.47	161.56	175.55	135.75	71.83	139.30	134.51	118.73	1508.54	125.71
1955	92.49	146.65	122.76	146.02	172.94	104.48	186.31	118.46	53.11	127.66	145.01	192.09	1607.99	134.00
1956	156.14	152.24	147.72	88.24	75.05	74.34	78.18	79.63	78.48	81.61	109.79	132.53	1253.95	104.50
1957	141.82	106.74	88.56	72.81	77.85	76.23	77.98	77.69	76.43	82.54	81.18	114.83	1074.68	89.56
1958	185.40	125.12	128.10	115.02	185.40	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1639.93	136.66
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	112.92	73.23	136.42	64.36	117.92	1548.71	129.06
1960	69.66	169.86	132.76	147.02	95.94	106.51	165.90	138.33	73.49	185.40	179.42	185.40	1649.69	137.47
1961	162.56	109.29	60.76	51.39	124.98	145.31	188.37	151.46	157.54	61.51	62.09	144.79	1420.06	118.34
1962	185.40	131.18	112.37	67.56	139.22	144.45	186.17	150.45	85.28	122.43	135.35	187.59	1647.43	137.29
1963	185.40	167.46	105.76	147.02	123.95	159.93	186.60	153.46	77.43	134.54	55.50	189.13	1686.18	140.52
1964	185.40	167.46	121.76	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1656.85	138.07
1965	155.49	110.77	142.89	118.44	70.04	131.21	134.60	147.34	71.90	71.43	62.38	57.37	1273.86	106.15
1966	144.11	132.58	80.18	75.61	165.46	166.56	196.82	151.16	66.01	64.11	56.21	104.20	1403.01	116.92
1967	185.40	164.29	142.05	102.89	164.46	163.56	150.50	150.62	128.87	72.00	62.81	74.17	1561.63	130.14
1968	185.40	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1622.34	135.20
1969	140.66	127.89	149.39	101.98	160.47	161.56	166.60	86.94	73.15	69.63	61.34	57.83	1357.44	113.12
1970	188.59	167.46	106.76	156.02	113.94	115.59	184.23	150.74	92.94	149.06	102.06	189.26	1716.67	143.06
1971	185.40	123.23	124.26	133.67	112.94	130.82	163.88	133.54	90.54	156.98	152.42	185.40	1693.10	141.09
1972	149.56	134.08	148.34	136.47	104.45	149.84	184.70	142.99	72.49	71.16	61.43	70.82	1426.33	118.86
1973	148.04	153.26	166.90	160.07	158.36	104.19	75.29	76.48	75.23	81.30	79.70	123.71	1402.54	116.88
1974	148.04	82.49	75.16	74.38	77.88	75.98	78.56	77.90	73.63	74.59	72.76	75.58	986.97	82.25
1975	75.00	68.52	77.73	77.89	84.38	84.30	88.49	88.96	85.32	86.53	125.93	132.71	1075.75	89.65
1976	141.80	133.78	73.34	72.76	77.49	78.83	86.84	60.15	57.12	84.69	.120.92	124.94	1112.66	92.72
1977	147.92	152.46	106.22	72.47	143.18	139.79	144.09	148.88	116.28	65.83	55.42	186.52	1479.07	123.26
TOTAL	4111.45	3746.51	3202.17	2845.09	3399.44	3597.52	4199.94	3398.32	2372.03	2956.28	2788.62	3659.35	40276.73	3356.39
MEAN	146.84	133.80	114.36	101.61	121.41	128.48	150.00	121.37	84.72	105.58	99.59	130.69	1438.45	119.87

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	4.16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.16	0.35
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	56.16	0.	0.	0.	13.54	0.	0.	0.	0.	0.	0.	0.	69.70	5.81
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	163.15	0.	0.	0.	0.	0.	0.	0.	1.01	104.00	19.15	287.32	23.94
1961	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1962	66.16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	10.93	77.09	6.42
1963	169.16	37.83	0.	0.	0.	0.	0.	0.	0.	0.	0.	74.64	281.63	23.47
1964	169.16	28.83	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	197.99	16.50
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1967	2.16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.16	0.18
1968	6.16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.16	0.51
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	49.86	165.83	0.	0.	0.	0.	0.	0.	0.	0.	0.	9.95	225.64	18.80
1971	147.16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	255.15	402.31	33.53
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	173.22	173.22	14.44
TOTAL	670.13	395.64	0.	0.	13.54	0.	0.	0.	0.	1.01	104.00	543.04	1727.36	143.95
MEAN	23.93	14.13	0.	0.	0.48	0.	0.	0.	0.	0.04	3.71	19.39	61.69	5.14

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	200.00	197.80	197.17	194.52	193.47	190.44	186.25	184.22	183.62	182.70	182.30	181.44	2273.93	189.49
1951	192.00	193.28	190.69	191.92	190.47	188.93	185.76	182.70	181.88	182.70	187.86	191.75	2259.95	188.33
1952	199.63	200.00	197.68	198.38	198.27	196.92	193.84	191.57	189.04	190.37	189.66	187.57	2332.94	194.41
1953	184.80	182.70	181.55	180.64	178.79	176.57	175.00	175.00	175.00	179.43	182.24	184.37	2156.08	179.67
1954	188.88	188.56	189.16	192.21	189.31	185.76	183.77	182.70	182.48	183.90	182.70	191.94	2241.37	186.78
1955	198.42	200.00	200.00	200.00	200.00	200.00	197.82	197.46	198.31	198.49	197.25	194.07	2381.80	198.48
1956	190.91	187.53	184.12	182.70	181.52	180.80	180.07	179.30	178.62	178.80	182.70	184.93	2191.99	182.67
1957	183.21	184.27	182.70	181.31	179.91	180.34	180.74	180.62	179.42	182.70	188.80	200.00	2204.01	183.67
1958	200.00	198.62	200.00	200.00	200.00	198.68	196.18	197.35	196.06	196.84	197.46	197.76	2378.95	198.25
1959	197.35	194.44	191.17	187.87	185.21	185.26	183.27	182.70	182.70	184.82	190.37	194.20	2259.38	188.28
1960	198.27	200.00	200.00	200.00	200.00	199.54	200.00	200.00	200.00	200.00	200.00	200.00	2397.82	199.82
1961	200.00	200.00	200.00	199.68	198.65	197.34	194.56	192.92	190.55	192.57	196.90	200.00	2363.17	196.93
1962	200.00	199.93	198.44	199.18	200.00	199.27	196.53	193.92	193.84	196.52	198.59	200.00	2376.23	198.02
1963	200.00	200.00	200.00	200.00	199.09	196.21	194.66	192.88	192.78	193.10	197.61	200.00	2366.33	197.19
1964	200.00	200.00	200.00	199.16	197.04	193.65	192.01	190.03	188.71	190.09	189.75	190.99	2331.42	194.29
1965	187.92	186.93	183.53	182.70	187.58	186.08	182.70	182.84	182.20	186.26	191.96	198.67	2239.37	186.61
1966	200.00	198.70	198.90	200.00	196.96	193.49	188.73	185.50	187.21	191.59	197.68	200.00	2338.75	194.90
1967	200.00	200.00	199.01	197.58	194.45	190.95	188.46	186.03	182.70	185.09	192.51	200.00	2316.79	193.07
1968	200.00	198.18	198.07	197.05	193.52	190.23	187.04	185.10	184.13	187.36	191.98	196.24	2308.89	192.41
1969	196.87	195.57	192.68	191.96	189.07	186.20	182.70	182.70	182.70	188.11	191.84	197.94	2278.36	189.86
1970	200.00	200.00	200.00	200.00	200.00	199.00	196.31	194.94	194.16	194.90	197.52	200.00	2376.84	198.07
1971	200.00	199.96	199.38	200.00	200.00	198.81	196.92	197.69	198.96	200.00	200.00	200.00	2391.71	199.31
1972	200.00	197.92	194.99	192.27	192.89	189.64	185.60	182.70	181.67	187.17	192.63	200.00	2297.49	191.46
1973	199.08	196.45	193.01	189.47	185.16	182.70	181.24	181.43	179.89	177.82	178.87	185.06	2230.19	185.85
1974	184.35	182.70	181.39	180.88	180.29	180.23	180.23	180.92	182.16	182.60	181.49	182.15	2179.40	181.62
1975	182.13	181.18	180.10	178.36	176.40	175.98	175.24	175.57	175.90	176.94	182.70	185.26	2145.77	178.81
1976	186.56	183.59	182.61	181.48	180.10	177.44	175.21	175.00	175.00	179.56	185.87	191.55	2173.97	181.16
1977	188.98	184.97	182.70	181.69	183.56	186.34	188.84	187.31	184.61	191.58	199.26	200.00	2259.85	188.32
TOTAL	5459.38	5433.28	5399.06	5381.02	5351.69	5306.79	5249.69	5221.13	5204.32	5262.02	5348.49	5435.88	64052.75	5337.73
MEAN	194.98	194.05	192.82	192.18	191.13	189.53	187.49	186.47	185.87	187.93	191.02	194.14	2287.60	190.63

Table 1.8 (5) Summary of Case III Study

Condition of study

(1) H.W.L. El. 200 m

(2) L.W.L. El. 175 m

(3) Firm power 10,000 kW

(4) Installed capacity 40,000 kW

(5) Combination of irrigation and hydropower
Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	35.79	27.84	16.80	25.90	13.02	25.31	27.30	21.51	15.87	19.20	10.00	10.00	248.53	20.71
1951	15.70	22.63	23.22	10.00	14.75	24.24	27.34	15.14	10.00	17.58	16.98	20.78	218.36	18.20
1952	10.00	29.26	26.81	14.43	19.50	27.11	31.73	25.82	19.03	22.95	22.50	21.02	270.16	22.51
1953	19.46	15.59	10.00	10.00	10.00	10.00	9.86	5.65	3.57	10.00	10.00	17.70	131.82	10.99
1954	18.17	21.58	14.56	10.00	26.65	25.07	24.86	18.57	10.00	19.03	19.04	17.74	225.26	18.77
1955	16.08	30.26	23.18	28.49	32.65	20.38	34.54	21.49	10.00	23.46	27.29	33.67	301.48	25.12
1956	25.83	26.19	21.40	12.52	10.00	10.00	10.00	10.00	10.00	10.00	14.63	18.36	178.94	14.91
1957	19.77	16.35	12.18	10.00	10.00	10.00	10.00	10.00	10.00	10.72	12.13	19.69	150.84	12.57
1958	40.00	25.85	23.91	22.44	37.56	25.20	32.61	17.15	15.50	23.65	25.90	24.95	314.71	26.23
1959	26.52	29.72	25.13	23.08	22.14	20.08	23.08	15.35	10.22	18.88	10.00	19.44	243.64	20.30
1960	12.34	40.00	25.06	28.68	18.11	20.70	31.20	26.11	14.34	35.19	40.00	38.61	330.35	27.53
1961	30.69	22.84	11.47	10.00	23.27	27.41	33.19	25.64	26.55	10.00	11.06	26.64	258.76	21.56
1962	40.00	27.40	20.93	12.92	26.11	28.01	33.93	26.17	14.96	21.28	25.34	37.04	314.08	26.17
1963	40.00	40.00	19.97	28.68	23.22	29.99	32.58	26.00	13.32	22.44	10.00	40.00	326.20	27.18
1964	40.00	40.00	22.99	14.97	23.58	29.82	23.14	23.99	17.61	15.49	27.65	22.82	302.05	25.17
1965	24.28	18.39	20.44	16.69	10.00	20.08	18.90	19.94	10.00	10.00	10.00	10.00	188.71	15.73
1966	26.91	27.41	14.84	14.62	30.45	29.94	31.73	22.51	10.00	10.00	10.00	19.30	247.70	20.64
1967	35.41	34.34	26.60	19.51	29.01	28.07	23.61	22.49	18.68	10.00	10.00	13.14	270.85	22.57
1968	36.16	28.72	16.22	17.49	29.86	27.97	28.52	22.50	14.34	14.75	16.05	23.66	276.24	23.02
1969	25.05	25.07	25.48	17.38	25.57	25.13	23.42	11.74	10.21	10.00	10.00	10.00	219.06	18.26
1970	40.00	40.00	20.15	30.44	21.51	22.36	33.43	26.41	16.50	25.61	18.67	36.84	331.92	27.66
1971	40.00	25.75	23.33	25.94	21.32	25.27	29.85	24.09	17.17	29.38	29.73	40.00	331.84	27.65
1972	28.23	27.55	26.37	23.83	17.31	25.03	27.78	19.96	10.00	10.00	10.00	12.56	238.62	19.88
1973	27.74	30.85	28.77	26.73	23.67	14.96	10.00	10.00	10.00	10.00	10.00	16.43	219.14	18.26
1974	20.93	12.57	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	133.51	11.13
1975	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	16.42	18.46	134.88	11.24
1976	20.58	21.11	10.00	10.00	10.00	10.00	10.00	6.70	6.55	10.00	16.88	19.21	151.05	12.59
1977	23.46	25.06	14.73	10.00	19.31	20.53	21.67	22.62	17.47	10.00	10.00	40.00	234.84	19.57
TOTAL	749.08	742.33	544.53	494.73	568.56	602.65	664.26	517.55	361.89	449.62	460.28	638.05	6793.52	566.13
MEAN	26.75	26.51	19.45	17.67	20.31	21.52	23.72	18.48	12.92	16.06	16.44	22.79	242.63	20.22

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	26.62	18.71	12.50	18.65	9.69	18.22	20.31	16.01	11.43	14.28	7.20	7.44	181.05	15.09
1951	11.68	15.21	17.27	7.20	10.97	17.45	20.34	11.26	7.20	13.08	12.23	15.46	159.36	13.28
1952	7.44	19.66	19.95	10.39	14.51	19.52	23.61	19.21	13.70	17.07	16.20	15.64	196.90	16.41
1953	14.48	10.47	7.44	7.20	7.44	7.20	7.33	4.20	2.57	7.44	7.20	13.17	96.15	8.01
1954	13.52	14.50	10.83	7.20	19.83	18.05	18.49	13.81	7.20	14.16	13.71	13.20	164.50	13.71
1955	11.96	20.33	17.24	20.51	24.29	14.67	25.70	15.99	7.20	17.46	19.65	25.05	220.05	18.34
1956	19.22	17.60	15.92	9.01	7.44	7.20	7.44	7.44	7.20	7.44	10.53	13.66	130.11	10.84
1957	14.71	10.99	9.06	7.20	7.44	7.20	7.44	7.44	7.20	7.98	8.73	14.65	110.03	9.17
1958	29.76	17.37	17.79	16.16	27.94	18.15	24.26	12.76	11.16	17.59	18.65	18.56	230.15	19.18
1959	19.73	19.97	18.70	16.62	16.47	14.46	17.17	11.42	7.36	14.05	7.20	14.46	177.60	14.80
1960	9.18	26.88	18.65	20.65	13.47	14.90	23.21	19.43	10.32	26.18	28.80	28.73	240.41	20.03
1961	22.83	15.35	8.53	7.20	17.31	19.74	24.69	19.08	19.12	7.44	7.96	19.82	189.07	15.76
1962	29.76	18.42	15.57	9.30	19.42	20.17	25.24	19.47	10.77	15.83	18.24	27.56	229.75	19.15
1963	29.76	26.88	14.85	20.65	17.28	21.59	24.24	19.34	9.59	16.70	7.20	29.76	237.85	19.82
1964	29.76	26.88	17.10	10.78	17.54	21.47	17.21	17.85	12.68	11.53	19.91	16.98	219.68	18.31
1965	18.06	12.36	15.21	12.02	7.44	14.46	14.06	14.83	7.20	7.44	7.20	7.44	137.71	11.48
1966	20.02	18.42	11.04	10.52	22.66	21.55	23.61	16.74	7.20	7.44	7.20	14.36	180.76	15.06
1967	26.34	23.07	19.79	14.05	21.58	20.21	17.56	16.73	13.45	7.44	7.20	9.77	197.21	16.43
1968	26.91	19.30	12.07	12.59	22.21	20.14	21.22	16.74	10.33	10.98	11.56	17.60	201.64	16.80
1969	18.64	16.85	18.96	12.51	19.03	18.09	17.43	8.74	7.35	7.44	7.20	7.44	159.67	13.31
1970	29.76	26.88	15.00	21.91	16.00	16.10	24.87	19.65	11.88	19.05	13.44	27.41	241.96	20.16
1971	29.76	17.30	17.36	18.68	15.86	18.19	22.21	17.92	12.37	21.86	21.41	29.76	242.68	20.22
1972	21.01	18.51	19.62	17.16	12.88	18.02	20.67	14.85	7.20	7.44	7.20	9.34	173.89	14.49
1973	20.64	20.73	21.41	19.24	17.61	10.77	7.44	7.44	7.20	7.44	7.20	12.22	159.34	13.28
1974	15.57	8.45	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	7.20	7.44	97.46	8.12
1975	7.44	6.72	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	11.82	13.73	98.51	8.21
1976	15.31	14.19	7.44	7.20	7.44	7.20	7.44	4.98	4.72	7.44	12.16	14.29	109.82	9.15
1977	17.45	16.84	10.96	7.20	14.36	14.78	16.12	16.83	12.58	7.44	7.20	29.76	171.52	14.29
TOTAL	557.32	498.84	405.13	356.20	423.01	433.91	494.21	385.06	260.56	334.52	331.40	474.71	4954.87	412.91
MEAN	19.90	17.82	14.47	12.72	15.11	15.50	17.65	13.75	9.31	11.95	11.84	16.95	176.96	14.75

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	189.56	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	140.62	71.97	75.51	1514.56	126.21
1951	106.40	123.20	141.69	59.81	91.38	149.56	182.76	108.21	72.31	131.38	114.77	132.17	1413.65	117.80
1952	57.01	140.41	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1544.32	128.69
1953	133.24	101.74	75.01	74.45	79.59	81.10	86.87	50.88	31.12	84.83	74.93	129.22	1002.98	83.58
1954	123.33	126.66	94.35	60.52	166.47	161.56	175.55	135.75	71.83	139.30	134.51	118.73	1508.54	125.71
1955	92.49	146.65	122.76	146.02	172.94	104.48	186.31	118.46	53.11	127.66	145.01	192.09	1607.99	134.00
1956	156.14	152.24	147.72	88.24	75.05	74.34	78.18	79.63	78.48	81.61	109.79	132.53	1253.95	104.50
1957	141.82	106.74	88.56	72.81	77.85	76.23	77.98	77.69	76.43	82.54	81.18	114.83	1074.68	89.56
1958	211.89	125.12	128.10	115.02	198.94	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1679.95	140.00
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	112.92	73.23	136.42	64.36	117.92	1548.71	129.06
1960	69.66	194.13	132.76	147.02	95.94	106.51	165.90	138.33	73.49	186.41	205.05	204.55	1719.75	143.31
1961	162.56	109.29	60.76	51.39	124.98	145.31	188.37	151.46	157.54	61.51	62.09	144.79	1420.06	118.34
1962	211.89	131.18	112.37	67.56	139.22	144.45	186.17	150.45	85.28	122.43	135.35	198.52	1684.84	140.40
1963	211.89	191.38	105.76	147.02	123.95	159.93	186.60	153.46	77.43	134.54	55.50	216.14	1763.61	146.97
1964	211.89	191.38	121.76	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1707.26	142.27
1965	155.49	110.77	142.89	118.44	70.04	131.21	134.60	147.34	71.90	71.43	62.38	57.37	1273.86	106.15
1966	144.11	132.58	80.18	75.61	165.46	166.56	196.82	151.16	66.01	64.11	56.21	104.20	1403.01	116.92
1967	187.56	164.29	142.05	102.89	164.46	163.56	150.50	150.62	128.87	72.00	62.81	74.17	1563.79	130.32
1968	191.56	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1628.50	135.71
1969	140.66	127.89	149.39	101.98	160.47	161.56	166.60	86.94	73.15	69.63	61.34	57.83	1357.44	113.12
1970	215.53	191.38	106.76	156.02	113.94	115.59	184.23	150.74	92.94	149.06	102.06	199.21	1777.48	148.12
1971	211.89	123.23	124.26	133.67	112.94	130.82	163.88	133.54	90.54	156.98	152.42	211.89	1746.07	145.51
1972	149.56	134.08	148.34	136.47	104.45	149.84	184.70	142.99	72.49	71.16	61.43	70.82	1426.33	118.86
1973	148.04	153.26	166.90	160.07	158.36	104.19	75.29	76.48	75.23	81.30	79.70	123.71	1402.54	116.88
1974	148.04	82.49	75.16	74.38	77.88	75.98	78.56	77.90	73.63	74.59	72.76	75.58	986.97	82.25
1975	75.00	68.52	77.73	77.89	84.38	84.30	88.49	88.96	85.32	86.53	125.93	132.71	1075.75	89.65
1976	141.80	133.78	73.34	72.76	77.49	78.83	86.84	60.15	57.12	84.69	120.92	124.94	1112.66	92.72
1977	147.92	152.46	106.22	72.47	143.18	139.79	144.09	148.88	116.28	65.83	55.42	213.16	1505.72	125.48
TOTAL	4283.30	3842.55	3202.17	2845.09	3412.98	3597.52	4199.94	3398.32	2372.03	2957.30	2814.25	3779.52	40704.97	3392.08
MEAN	152.97	137.23	114.36	101.61	121.89	128.48	150.00	121.37	84.72	105.62	100.51	134.98	1453.75	121.15

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	29.67	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	29.67	2.47
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	138.88	0.	0.	0.	0.	0.	0.	0.	0.	78.37	0.	217.26	18.10
1961	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1962	39.67	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	39.67	3.31
1963	142.67	13.91	0.	0.	0.	0.	0.	0.	0.	0.	0.	47.62	204.20	17.02
1964	142.67	4.91	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	147.58	12.30
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1967	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1968	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	22.91	141.91	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	164.82	13.74
1971	120.67	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	228.66	349.34	29.11
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	146.58	146.58	12.21
TOTAL	498.28	299.61	0.	0.	0.	0.	0.	0.	0.	0.	78.37	422.86	1299.12	108.26
MEAN	17.80	10.70	0.	0.	0.	0.	0.	0.	0.	0.	2.80	15.10	46.40	3.87

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	200.00	197.80	197.17	194.52	193.47	190.44	186.25	184.22	183.62	182.70	182.30	181.44	2273.93	189.49
1951	192.00	193.28	190.69	191.92	190.47	189.93	185.76	182.70	181.88	182.70	187.86	191.75	2259.95	188.33
1952	199.63	200.00	197.68	198.38	198.27	196.92	193.84	191.57	189.04	190.37	189.66	187.57	2332.94	194.41
1953	184.80	182.70	181.55	180.64	178.79	176.57	175.00	175.00	175.00	179.43	182.24	184.37	2156.08	179.67
1954	188.88	188.56	189.16	192.21	189.31	185.76	183.77	182.70	182.48	183.90	182.70	191.94	2241.37	186.78
1955	198.42	200.00	200.00	200.00	200.00	200.00	197.82	197.46	198.31	198.49	197.25	194.07	2381.80	198.48
1956	190.91	187.53	184.12	182.70	181.52	180.80	180.07	179.30	178.62	178.80	182.70	184.93	2191.99	182.67
1957	183.21	184.27	182.70	181.31	179.91	180.34	180.74	180.62	179.42	182.70	188.80	200.00	2204.01	183.67
1958	200.00	198.62	200.00	200.00	200.00	198.68	196.18	197.35	196.06	196.84	197.46	197.76	2378.95	198.25
1959	197.35	194.44	191.17	187.87	185.21	185.26	183.27	182.70	182.70	184.82	190.37	194.20	2259.38	188.28
1960	198.27	200.00	200.00	200.00	200.00	199.54	200.00	200.00	200.00	200.00	200.00	200.00	2397.82	199.82
1961	200.00	200.00	200.00	199.68	198.65	197.34	194.56	192.92	190.55	192.57	196.90	200.00	2363.17	196.93
1962	200.00	199.93	198.44	199.18	200.00	199.27	196.53	193.92	193.84	196.52	198.59	200.00	2376.23	198.02
1963	200.00	200.00	200.00	200.00	199.09	196.21	194.66	192.88	192.78	193.10	197.61	200.00	2366.33	197.19
1964	200.00	200.00	200.00	199.16	197.04	193.65	192.01	190.03	188.71	190.09	189.75	190.99	2331.42	194.29
1965	187.92	186.93	183.53	182.70	187.58	186.08	182.70	182.84	182.20	186.26	191.96	198.67	2239.37	186.61
1966	200.00	198.70	198.90	200.00	196.96	193.49	188.73	185.50	187.21	191.59	197.68	200.00	2338.75	194.90
1967	200.00	200.00	199.01	197.58	194.45	190.95	188.46	186.03	182.70	185.09	192.51	200.00	2316.79	193.07
1968	200.00	198.18	198.07	197.05	193.52	190.23	187.04	185.10	184.13	187.36	191.98	196.24	2308.89	192.41
1969	196.87	195.57	192.68	191.96	189.07	186.20	182.70	182.70	182.70	188.11	191.84	197.94	2278.36	189.86
1970	200.00	200.00	200.00	200.00	200.00	199.00	196.31	194.94	194.16	194.90	197.52	200.00	2376.84	198.07
1971	200.00	199.96	199.38	200.00	200.00	198.81	196.92	197.69	198.96	200.00	200.00	200.00	2391.71	199.31
1972	200.00	197.92	194.99	192.27	192.89	189.64	185.60	182.70	181.67	187.17	192.63	200.00	2297.49	191.46
1973	199.08	196.45	193.01	189.47	185.16	182.70	181.24	181.43	179.89	177.82	178.87	185.06	2230.19	185.85
1974	184.35	182.70	181.39	180.88	180.29	180.23	180.23	180.92	182.16	182.60	181.49	182.15	2179.40	181.62
1975	182.13	181.18	180.10	178.36	176.40	175.98	175.24	175.57	175.90	176.94	182.70	185.26	2145.77	178.81
1976	186.56	183.59	182.61	181.48	180.10	177.44	175.21	175.00	175.00	179.56	185.87	191.55	2173.97	181.16
1977	188.98	184.97	182.70	181.69	183.56	186.34	188.84	187.31	184.61	191.58	199.26	200.00	2259.85	188.32
TOTAL	5459.38	5433.28	5399.06	5381.02	5351.69	5306.79	5249.69	5221.13	5204.32	5262.02	5348.49	5435.88	64052.75	5337.73
MEAN	194.98	194.05	192.82	192.18	191.13	189.53	187.49	186.47	185.87	187.93	191.02	194.14	2287.60	190.63

Table 1.8 (6) Summary of Case III Study

Condition of study

(1) H.W.L. El. 200 m

(2) L.W.L. El. 175 m

(3) Firm power 10,000 kW

(4) Installed capacity 45,000 kW

(5) Combination of irrigation and hydropower
Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	35.79	27.84	16.80	25.90	13.07	25.31	27.30	21.51	15.87	19.20	10.00	10.00	248.53	20.71
1951	15.70	22.63	23.22	10.00	14.75	24.24	27.34	15.14	10.00	17.58	16.98	20.78	218.36	18.20
1952	10.00	29.26	26.81	14.43	19.50	27.11	31.73	25.82	19.03	22.95	22.50	21.02	270.16	22.51
1953	19.46	15.59	10.00	10.00	10.00	10.00	9.86	5.65	3.57	10.00	10.00	17.70	131.82	10.99
1954	18.17	21.58	14.56	10.00	26.65	25.07	24.86	18.57	10.00	19.03	19.04	17.74	225.26	18.77
1955	16.08	30.26	23.18	28.49	32.65	20.38	34.54	21.49	10.00	23.46	27.29	33.67	301.48	25.12
1956	25.83	26.19	21.40	12.52	10.00	10.00	10.00	10.00	10.00	10.00	14.63	18.36	178.94	14.91
1957	19.77	16.35	12.18	10.00	10.00	10.00	10.00	10.00	10.00	10.72	12.13	19.69	150.84	12.57
1958	45.00	25.85	23.91	22.44	37.56	25.20	32.61	17.15	15.50	23.65	25.90	24.95	319.71	26.64
1959	26.52	29.72	25.13	23.08	22.14	20.08	23.08	15.35	10.22	18.88	10.00	19.44	243.64	20.30
1960	12.34	45.00	25.06	28.68	18.11	20.70	31.20	26.11	14.34	35.19	45.00	38.61	340.35	28.36
1961	30.69	22.84	11.47	10.00	23.27	27.41	33.19	25.64	26.55	10.00	11.06	26.64	258.76	21.56
1962	45.00	27.40	20.93	12.92	26.11	28.01	33.93	26.17	14.96	21.28	25.34	37.04	319.08	26.59
1963	45.00	42.91	19.97	28.68	23.22	29.99	32.58	26.00	13.32	22.44	10.00	45.00	339.11	28.26
1964	45.00	41.03	22.99	14.97	23.58	29.82	23.14	23.99	17.61	15.49	27.65	22.82	308.07	25.67
1965	24.28	18.39	20.44	16.69	10.00	20.08	18.90	19.94	10.00	10.00	10.00	10.00	188.71	15.73
1966	26.91	27.41	14.84	14.62	30.45	29.94	31.73	22.51	10.00	10.00	10.00	19.30	247.70	20.64
1967	35.41	34.34	26.60	19.51	29.01	28.07	23.61	22.49	18.68	10.00	10.00	13.14	270.85	22.57
1968	36.16	28.72	16.22	17.49	29.86	27.97	28.52	22.50	14.34	14.75	16.05	23.66	276.24	23.02
1969	25.05	25.07	25.48	17.38	25.57	25.13	23.42	11.74	10.21	10.00	10.00	10.00	219.06	18.26
1970	44.25	45.00	20.15	30.44	21.51	22.36	33.43	26.41	16.50	25.61	18.67	36.84	341.17	28.43
1971	45.00	25.75	23.33	25.94	21.32	25.27	29.85	24.09	17.17	29.38	29.73	45.00	341.84	28.49
1972	28.23	27.55	26.37	23.83	17.31	25.03	27.78	19.96	10.00	10.00	10.00	12.56	238.62	19.88
1973	27.74	30.85	28.77	26.73	23.67	14.96	10.00	10.00	10.00	10.00	10.00	16.43	219.14	18.26
1974	20.93	12.57	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	133.51	11.13
1975	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	16.42	18.46	134.88	11.24
1976	20.58	21.11	10.00	10.00	10.00	10.00	10.00	6.70	6.55	10.00	16.88	19.21	151.05	12.59
1977	23.46	25.06	14.73	10.00	19.31	20.53	21.67	22.62	17.47	10.00	10.00	45.00	239.84	19.99
TOTAL	778.33	756.26	544.53	494.73	568.56	602.65	664.26	517.55	361.89	449.62	465.28	653.05	6856.71	571.39
MEAN	27.80	27.01	19.45	17.67	20.31	21.52	23.72	18.48	12.92	16.06	16.62	23.32	244.88	20.41

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	26.62	18.71	12.50	18.65	9.69	18.22	20.31	16.01	11.43	14.28	7.20	7.44	181.05	15.09
1951	11.68	15.21	17.27	7.20	10.97	17.45	20.34	11.26	7.20	13.08	12.23	15.46	159.36	13.28
1952	7.44	19.66	19.95	10.39	14.51	19.52	23.61	19.21	13.70	17.07	16.20	15.64	196.90	16.41
1953	14.48	10.47	7.44	7.20	7.44	7.20	7.33	4.20	2.57	7.44	7.20	13.17	96.15	8.01
1954	13.52	14.50	10.83	7.20	19.83	18.05	18.49	13.81	7.20	14.16	13.71	13.20	164.50	13.71
1955	11.96	20.33	17.24	20.51	24.29	14.67	25.70	15.99	7.20	17.46	19.65	25.05	220.05	18.34
1956	19.22	17.60	15.92	9.01	7.44	7.20	7.44	7.44	7.20	7.44	10.53	13.66	130.11	10.84
1957	14.71	10.99	9.06	7.20	7.44	7.20	7.44	7.44	7.20	7.98	8.73	14.65	110.03	9.17
1958	33.48	17.37	17.79	16.16	27.94	18.15	24.26	12.76	11.16	17.59	18.65	18.56	233.87	19.49
1959	19.73	19.97	18.70	16.62	16.47	14.46	17.17	11.42	7.36	14.05	7.20	14.46	177.60	14.80
1960	9.18	30.24	18.65	20.65	13.47	14.90	23.21	19.43	10.32	26.18	32.40	28.73	247.37	20.61
1961	22.83	15.35	8.53	7.20	17.31	19.74	24.69	19.08	19.12	7.44	7.96	19.82	189.07	15.76
1962	33.48	18.42	15.57	9.30	19.42	20.17	25.24	19.47	10.77	15.83	18.24	27.56	233.47	19.46
1963	33.48	28.83	14.85	20.65	17.28	21.59	24.24	19.34	9.59	16.70	7.20	33.48	247.24	20.60
1964	33.48	27.57	17.10	10.78	17.54	21.47	17.21	17.85	12.68	11.53	19.91	16.98	224.09	18.67
1965	18.06	12.36	15.21	12.02	7.44	14.46	14.06	14.83	7.20	7.44	7.20	7.44	137.71	11.48
1966	20.02	18.42	11.04	10.52	22.66	21.55	23.61	16.74	7.20	7.44	7.20	14.36	180.76	15.06
1967	26.34	23.07	19.79	14.05	21.58	20.21	17.56	16.73	13.45	7.44	7.20	9.77	197.21	16.43
1968	26.91	19.30	12.07	12.59	22.21	20.14	21.22	16.74	10.33	10.98	11.56	17.60	201.64	16.80
1969	18.64	16.85	18.96	12.51	19.03	18.09	17.43	8.74	7.35	7.44	7.20	7.44	159.67	13.31
1970	32.92	30.24	15.00	21.91	16.00	16.10	24.87	19.65	11.88	19.05	13.44	27.41	248.48	20.71
1971	33.48	17.30	17.36	18.68	15.86	18.19	22.21	17.92	12.37	21.86	21.41	33.48	250.12	20.84
1972	21.01	18.51	19.62	17.16	12.88	18.02	20.67	14.85	7.20	7.44	7.20	9.34	173.89	14.49
1973	20.64	20.73	21.41	19.24	17.61	10.77	7.44	7.44	7.20	7.44	7.20	12.22	159.34	13.28
1974	15.57	8.45	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	7.20	7.44	97.46	8.12
1975	7.44	6.72	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	11.82	13.73	98.51	8.21
1976	15.31	14.19	7.44	7.20	7.44	7.20	7.44	4.98	4.72	7.44	12.16	14.29	109.82	9.15
1977	17.45	16.84	10.96	7.20	14.36	14.78	16.12	16.83	12.58	7.44	7.20	33.48	175.24	14.60
TOTAL	579.08	508.21	405.13	356.20	423.01	433.91	494.21	385.06	260.56	334.52	335.00	485.87	5000.75	416.73
MEAN	20.68	18.15	14.47	12.72	15.11	15.50	17.65	13.75	9.31	11.95	11.96	17.35	178.60	14.88

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	189.56	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	140.62	71.97	75.51	1514.56	126.21
1951	106.40	123.20	141.69	59.81	91.38	149.56	182.76	108.21	72.31	131.38	114.77	132.17	1413.65	117.80
1952	57.01	140.41	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1544.32	128.69
1953	133.24	101.74	75.01	74.45	79.59	81.10	86.87	50.88	31.12	84.83	74.93	129.22	1002.98	83.58
1954	123.33	126.66	94.35	60.52	166.47	161.56	175.55	135.75	71.83	139.30	134.51	118.73	1508.54	125.71
1955	92.49	146.65	122.76	146.02	172.94	104.48	186.31	118.46	53.11	127.66	145.01	192.09	1607.99	134.00
1956	156.14	152.24	147.72	88.24	75.05	74.34	78.18	79.63	78.48	81.61	109.79	132.53	1253.95	104.50
1957	141.82	106.74	88.56	72.81	77.85	76.23	77.98	77.69	76.43	82.54	81.18	114.83	1074.68	89.56
1958	238.37	125.12	128.10	115.02	198.94	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1706.44	142.20
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	112.92	73.23	136.42	64.36	117.92	1548.71	129.06
1960	69.66	218.39	132.76	147.02	95.94	106.51	165.90	138.33	73.49	186.41	230.68	204.55	1769.65	147.47
1961	162.56	109.29	60.76	51.39	124.98	145.31	188.37	151.46	157.54	61.51	62.09	144.79	1420.06	118.34
1962	238.37	131.18	112.37	67.56	139.22	144.45	186.17	150.45	85.28	122.43	135.35	198.52	1711.33	142.61
1963	238.37	205.29	105.76	147.02	123.95	159.93	186.60	153.46	77.43	134.54	55.50	243.16	1831.02	152.59
1964	238.37	196.29	121.76	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1738.65	144.89
1965	155.49	110.77	142.89	118.44	70.04	131.71	134.60	147.34	71.90	71.43	62.38	57.37	1273.86	106.15
1966	144.11	132.58	80.18	75.61	165.46	166.56	196.82	151.16	66.01	64.11	56.21	104.20	1403.01	116.92
1967	187.56	164.29	142.05	102.89	164.46	163.56	150.50	150.62	128.87	72.00	62.81	74.17	1563.79	130.32
1968	191.56	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1628.50	135.71
1969	140.66	127.89	149.39	101.98	160.47	161.56	166.60	86.94	73.15	69.63	61.34	57.83	1357.44	113.12
1970	238.45	215.30	106.76	156.02	113.94	115.59	184.23	150.74	92.94	149.06	102.06	199.21	1824.32	152.03
1971	238.37	123.23	124.26	133.67	112.94	130.82	163.88	133.54	90.54	156.98	152.42	238.37	1799.04	149.92
1972	149.56	134.08	148.34	136.47	104.45	149.84	184.70	142.99	72.49	71.16	61.43	70.82	1426.33	118.86
1973	148.04	153.26	166.90	160.07	158.36	104.19	75.29	76.48	75.23	81.30	79.70	123.71	1402.54	116.88
1974	148.04	82.49	75.16	74.38	77.88	75.98	78.56	77.90	73.63	74.59	72.76	75.58	986.97	82.25
1975	75.00	68.52	77.73	77.89	84.38	84.30	88.49	88.96	85.32	86.53	125.93	132.71	1075.75	89.65
1976	141.80	133.78	73.34	72.76	77.49	78.83	86.84	60.15	57.12	84.69	120.92	124.94	1112.66	92.72
1977	147.92	152.46	106.22	72.47	143.18	139.79	144.09	148.88	116.28	65.83	55.42	239.81	1532.36	127.70
TOTAL	4438.64	3909.55	3202.17	2845.09	3412.98	3597.52	4199.94	3398.32	2372.03	2957.30	2839.88	3859.67	41033.10	3419.42
MEAN	158.52	139.63	114.36	101.61	121.89	128.48	150.00	121.37	84.72	105.62	101.42	137.85	1465.47	122.12

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	3.19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.19	0.27
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	114.62	0.	0.	0.	0.	0.	0.	0.	0.	52.74	0.	167.36	13.95
1961	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1962	13.19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	13.19	1.10
1963	116.19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	20.60	136.79	11.40
1964	116.19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	116.19	9.68
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1967	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1968	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	0.	117.99	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	117.99	9.83
1971	94.19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	202.18	296.37	24.70
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	119.93	119.93	9.99
TOTAL	342.94	232.60	0.	0.	0.	0.	0.	0.	0.	0.	52.74	342.71	970.99	80.92
MEAN	12.25	8.31	0.	0.	0.	0.	0.	0.	0.	0.	1.88	12.24	34.68	2.89

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	200.00	197.80	197.17	194.52	193.47	190.44	186.25	184.22	183.62	182.70	182.30	181.44	2273.93	189.49
1951	192.00	193.28	190.69	191.92	190.47	188.93	185.76	182.70	181.88	182.70	187.86	191.75	2259.95	188.33
1952	199.63	200.00	197.68	198.38	198.27	196.92	193.84	191.57	189.04	190.37	189.66	187.57	2332.94	194.41
1953	184.80	182.70	181.55	180.64	178.79	176.57	175.00	175.00	175.00	179.43	182.24	184.37	2156.08	179.67
1954	188.88	188.56	189.16	192.21	189.31	185.76	183.77	182.70	182.48	183.90	182.70	191.94	2241.37	186.78
1955	198.42	200.00	200.00	200.00	200.00	200.00	197.82	197.46	198.31	198.49	197.25	194.07	2381.80	198.48
1956	190.91	187.53	184.12	182.70	181.52	180.80	180.07	179.30	178.62	178.80	182.70	184.93	2191.99	182.67
1957	183.21	184.27	182.70	181.31	179.91	180.34	180.74	180.62	179.42	182.70	188.80	200.00	2204.01	183.67
1958	200.00	198.62	200.00	200.00	200.00	198.68	196.18	197.35	196.06	196.84	197.46	197.76	2378.95	198.25
1959	197.35	194.44	191.17	187.87	185.21	185.26	183.27	182.70	182.70	184.82	190.37	194.20	2259.38	188.28
1960	198.27	200.00	200.00	200.00	200.00	199.54	200.00	200.00	200.00	200.00	200.00	200.00	2397.82	199.82
1961	200.00	200.00	200.00	199.68	198.65	197.34	194.56	192.92	190.55	192.57	196.90	200.00	2363.17	196.93
1962	200.00	199.93	198.44	199.18	200.00	199.27	196.53	193.92	193.84	196.52	198.59	200.00	2376.23	198.02
1963	200.00	200.00	200.00	200.00	199.09	196.21	194.66	192.88	192.78	193.10	197.61	200.00	2366.33	197.19
1964	200.00	200.00	200.00	199.16	197.04	193.65	192.01	190.03	188.71	190.09	189.75	190.99	2331.42	194.29
1965	187.92	186.93	183.53	182.70	187.58	186.08	182.70	182.84	182.20	186.26	191.96	198.67	2239.37	186.61
1966	200.00	199.70	198.90	200.00	196.96	193.49	188.73	185.50	187.21	191.59	197.68	200.00	2338.75	194.90
1967	200.00	200.00	199.01	197.58	194.45	190.95	188.46	186.03	182.70	185.09	192.51	200.00	2316.79	193.07
1968	200.00	198.18	198.07	197.05	193.52	190.23	187.04	185.10	184.13	187.36	191.98	196.24	2308.89	192.41
1969	196.87	195.57	192.68	191.96	189.07	186.20	182.70	182.70	182.70	188.11	191.84	197.94	2278.36	189.86
1970	200.00	200.00	200.00	200.00	200.00	199.00	196.31	194.94	194.16	194.90	197.52	200.00	2376.84	198.07
1971	200.00	199.96	199.38	200.00	200.00	198.81	196.92	197.69	198.96	200.00	200.00	200.00	2391.71	199.31
1972	200.00	197.92	194.99	192.27	192.89	189.64	185.60	182.70	181.67	187.17	192.63	200.00	2297.49	191.46
1973	199.08	196.45	193.01	189.47	185.16	182.70	181.24	181.43	179.89	177.82	178.87	185.06	2230.19	185.85
1974	184.35	182.70	181.39	180.88	180.29	180.23	180.23	180.92	182.16	182.60	181.49	182.15	2179.40	181.62
1975	182.13	181.18	180.10	178.36	176.40	175.98	175.24	175.57	175.90	176.94	182.70	185.26	2145.77	178.81
1976	186.56	183.59	182.61	181.48	180.10	177.44	175.21	175.00	175.00	179.56	185.87	191.55	2173.97	181.16
1977	188.98	184.97	182.70	181.69	183.56	186.34	188.84	187.31	184.61	191.58	199.26	200.00	2259.85	188.32
TOTAL	5459.38	5433.28	5399.06	5381.02	5351.69	5306.79	5249.69	5221.13	5204.32	5262.02	5348.49	5435.88	64052.75	5337.73
MEAN	194.98	194.05	192.82	192.18	191.13	189.53	187.49	186.47	185.87	187.93	191.02	194.14	2287.60	190.63

Table 1.8 (7) Summary of Case III Study

Condition of study

(1) H.W.L. El. 200 m

(2) L.W.L. El. 175 m

(3) Firm power 10,000 kW

(4) Installed capacity 50,000 kW

(5) Combination of irrigation and hydropower Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	35.79	27.84	16.80	25.90	13.02	25.31	27.30	21.51	15.87	19.20	10.00	10.00	248.53	20.71
1951	15.70	22.63	23.22	10.00	14.75	24.24	27.34	15.14	10.00	17.58	16.98	20.78	218.36	18.20
1952	10.00	29.26	26.81	14.43	19.50	27.11	31.73	25.82	19.03	22.95	22.50	21.02	270.16	22.51
1953	19.46	15.59	10.00	10.00	10.00	10.00	9.86	5.65	3.57	10.00	10.00	17.70	131.82	10.99
1954	18.17	21.58	14.56	10.00	26.65	25.07	24.86	18.57	10.00	19.03	19.04	17.74	225.26	18.77
1955	16.08	30.26	23.18	28.49	32.65	20.38	34.54	21.49	10.00	23.46	27.29	33.67	301.48	25.12
1956	25.83	26.19	21.40	12.52	10.00	10.00	10.00	10.00	10.00	10.00	14.63	18.36	178.94	14.91
1957	19.77	16.35	12.18	10.00	10.00	10.00	10.00	10.00	10.00	10.72	12.13	19.69	150.84	12.57
1958	45.60	25.85	23.91	22.44	37.56	25.20	32.61	17.15	15.50	23.65	25.90	24.95	320.31	26.69
1959	26.52	29.72	25.13	23.08	22.14	20.08	23.08	15.35	10.22	18.88	10.00	19.44	243.64	20.30
1960	12.34	50.00	25.06	28.68	18.11	20.70	31.20	26.11	14.34	35.19	50.00	38.61	350.35	29.20
1961	30.69	22.84	11.47	10.00	23.27	27.41	33.19	25.64	26.55	10.00	11.06	26.64	258.76	21.56
1962	47.49	27.40	20.93	12.92	26.11	28.01	33.93	26.17	14.96	21.28	25.34	37.04	321.57	26.80
1963	50.00	42.91	19.97	28.68	23.22	29.99	32.58	26.00	13.32	22.44	10.00	48.81	347.92	28.99
1964	50.00	41.03	22.99	14.97	23.58	29.82	23.14	23.99	17.61	15.49	27.65	22.82	313.07	26.09
1965	24.28	18.39	20.44	16.69	10.00	20.08	18.90	19.94	10.00	10.00	10.00	10.00	188.71	15.73
1966	26.91	27.41	14.84	14.62	30.45	29.94	31.73	22.51	10.00	10.00	10.00	19.30	247.70	20.64
1967	35.41	34.34	26.60	19.51	29.01	28.07	23.61	22.49	18.68	10.00	10.00	13.14	270.85	22.57
1968	36.16	28.72	16.22	17.49	29.86	27.97	28.52	22.50	14.34	14.75	16.05	23.66	276.24	23.02
1969	25.05	25.07	25.48	17.38	25.57	25.13	23.42	11.74	10.21	10.00	10.00	10.00	219.06	18.26
1970	44.25	50.00	20.15	30.44	21.51	22.36	33.43	26.41	16.50	25.61	18.67	36.84	346.17	28.85
1971	50.00	25.75	23.33	25.94	21.32	25.27	29.85	24.09	17.17	29.38	29.73	50.00	351.84	29.32
1972	28.23	27.55	26.37	23.83	17.31	25.03	27.78	19.96	10.00	10.00	10.00	12.56	238.62	19.88
1973	27.74	30.85	28.77	26.73	23.67	14.96	10.00	10.00	10.00	10.00	10.00	16.43	219.14	18.26
1974	20.93	12.57	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	133.51	11.13
1975	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	16.42	18.46	134.88	11.24
1976	20.58	21.11	10.00	10.00	10.00	10.00	10.00	6.70	6.55	10.00	16.88	19.21	151.05	12.59
1977	23.46	25.06	14.73	10.00	19.31	20.53	21.67	22.62	17.47	10.00	10.00	50.00	244.84	20.40
TOTAL	796.42	766.26	544.53	494.73	568.56	602.65	664.26	517.55	361.89	449.62	470.28	666.86	6903.61	575.30
MEAN	28.44	27.37	19.45	17.67	20.31	21.52	23.72	18.48	12.92	16.06	16.80	23.82	246.56	20.55

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	26.62	18.71	12.50	18.65	9.69	18.22	20.31	16.01	11.43	14.28	7.20	7.44	181.05	15.09
1951	11.68	15.21	17.27	7.20	10.97	17.45	20.34	11.26	7.20	13.08	12.23	15.46	159.36	13.28
1952	7.44	19.66	19.95	10.39	14.51	19.52	23.61	19.21	13.70	17.07	16.20	15.64	196.90	16.41
1953	14.48	10.47	7.44	7.20	7.44	7.20	7.33	4.20	2.57	7.44	7.20	13.17	96.15	8.01
1954	13.52	14.50	10.83	7.20	19.83	18.05	18.49	13.81	7.20	14.16	13.71	13.20	164.50	13.71
1955	11.96	20.33	17.24	20.51	24.29	14.67	25.70	15.99	7.20	17.46	19.65	25.05	220.05	18.34
1956	19.22	17.60	15.92	9.01	7.44	7.20	7.44	7.44	7.20	7.44	10.53	13.66	130.11	10.84
1957	14.71	10.99	9.06	7.20	7.44	7.20	7.44	7.44	7.20	7.98	8.73	14.65	110.03	9.17
1958	33.93	17.37	17.79	16.16	27.94	18.15	24.26	12.76	11.16	17.59	18.65	18.56	234.31	19.53
1959	19.73	19.97	18.70	16.62	16.47	14.46	17.17	11.42	7.36	14.05	7.20	14.46	177.60	14.80
1960	9.18	33.60	18.65	20.65	13.47	14.90	23.21	19.43	10.32	26.18	36.00	28.73	254.33	21.19
1961	22.83	15.35	8.53	7.20	17.31	19.74	24.69	19.08	19.12	7.44	7.96	19.82	189.07	15.76
1962	35.33	18.42	15.57	9.30	19.42	20.17	25.24	19.47	10.77	15.83	18.24	27.56	235.32	19.61
1963	37.20	28.83	14.85	20.65	17.28	21.59	24.24	19.34	9.59	16.70	7.20	36.32	253.80	21.15
1964	37.20	27.57	17.10	10.78	17.54	21.47	17.21	17.85	12.68	11.53	19.91	16.98	227.81	18.98
1965	18.06	12.36	15.21	12.02	7.44	14.46	14.06	14.83	7.20	7.44	7.20	7.44	137.71	11.48
1966	20.02	18.42	11.04	10.52	22.66	21.55	23.61	16.74	7.20	7.44	7.20	14.36	180.76	15.06
1967	26.34	23.07	19.79	14.05	21.58	20.21	17.56	16.73	13.45	7.44	7.20	9.77	197.21	16.43
1968	26.91	19.30	12.07	12.59	22.21	20.14	21.22	16.74	10.33	10.98	11.56	17.60	201.64	16.80
1969	18.64	16.85	18.96	12.51	19.03	18.09	17.43	8.74	7.35	7.44	7.20	7.44	159.67	13.31
1970	32.92	33.60	15.00	21.91	16.00	16.10	24.87	19.65	11.88	19.05	13.44	27.41	251.84	20.99
1971	37.20	17.30	17.36	18.68	15.86	18.19	22.21	17.92	12.37	21.86	21.41	37.20	257.56	21.46
1972	21.01	18.51	19.62	17.16	12.88	18.02	20.67	14.85	7.20	7.44	7.20	9.34	173.89	14.49
1973	20.64	20.73	21.41	19.24	17.61	10.77	7.44	7.44	7.20	7.44	7.20	12.22	159.34	13.28
1974	15.57	8.45	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	7.20	7.44	97.46	8.12
1975	7.44	6.72	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	11.82	13.73	98.51	8.21
1976	15.31	14.19	7.44	7.20	7.44	7.20	7.44	4.98	4.72	7.44	12.16	14.29	109.82	9.15
1977	17.45	16.84	10.96	7.20	14.36	14.78	16.12	16.83	12.58	7.44	7.20	37.20	178.96	14.91
TOTAL	592.54	514.93	405.13	356.20	423.01	433.91	494.21	385.06	260.56	334.52	338.60	496.15	5034.81	419.57
MEAN	21.16	18.39	14.47	12.72	15.11	15.50	17.65	13.75	9.31	11.95	12.09	17.72	179.81	14.98

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	189.56	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	140.62	71.97	75.51	1514.56	126.21
1951	106.40	123.20	141.69	59.81	91.38	149.56	182.76	108.21	72.31	131.38	114.77	132.17	1413.65	117.80
1952	57.01	140.41	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1544.32	128.69
1953	133.24	101.74	75.01	74.45	79.59	81.10	86.87	50.88	31.12	84.83	74.93	129.22	1002.98	83.58
1954	123.33	126.66	94.35	60.52	166.47	161.56	175.55	135.75	71.83	139.30	134.51	118.73	1508.54	125.71
1955	92.49	146.65	122.76	146.02	172.94	104.48	186.31	118.46	53.11	127.66	145.01	192.09	1607.99	134.00
1956	156.14	152.24	147.72	88.24	75.05	74.34	78.18	79.63	78.48	81.61	109.79	132.53	1253.95	104.50
1957	141.82	106.74	88.56	72.81	77.85	76.23	77.98	77.69	76.43	82.54	81.18	114.83	1074.68	89.56
1958	241.56	125.12	128.10	115.02	198.94	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1709.63	142.47
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	112.92	73.23	136.42	64.36	117.92	1548.71	129.06
1960	69.66	242.66	132.76	147.02	95.94	106.51	165.90	138.33	73.49	186.41	256.31	204.55	1819.55	151.63
1961	162.56	109.29	60.76	51.39	174.98	145.31	188.37	151.46	157.54	61.51	62.09	144.79	1420.06	118.34
1962	251.56	131.18	112.37	67.56	139.22	144.45	186.17	150.45	85.28	122.43	135.35	198.52	1724.52	143.71
1963	264.86	205.29	105.76	147.02	123.95	159.93	186.60	153.46	77.43	134.54	55.50	263.76	1878.11	156.51
1964	264.86	196.29	121.76	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1765.14	147.09
1965	155.49	110.77	142.89	118.44	70.04	131.21	134.60	147.34	71.90	71.43	62.38	57.37	1273.86	106.15
1966	144.11	132.58	80.18	75.61	165.46	166.56	196.82	151.16	66.01	64.11	56.21	104.20	1403.01	116.92
1967	187.56	164.29	142.05	102.89	164.46	163.56	150.50	150.62	128.87	72.00	62.81	74.17	1563.79	130.32
1968	191.56	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1628.50	135.71
1969	140.66	127.89	149.39	101.98	160.47	161.56	166.60	86.94	73.15	69.63	61.34	57.83	1357.44	113.12
1970	238.45	239.73	106.76	156.02	113.94	115.59	184.23	150.74	92.94	149.06	102.06	199.21	1848.24	154.02
1971	264.86	123.23	124.26	133.67	112.94	130.82	163.88	133.54	90.54	156.98	152.42	264.86	1852.01	154.33
1972	149.56	134.08	148.34	136.47	104.45	149.84	184.70	142.99	72.49	71.16	61.43	70.82	1426.33	118.86
1973	148.04	153.26	166.90	160.07	158.36	104.19	75.29	76.48	75.23	81.30	79.70	123.71	1402.54	116.88
1974	148.04	82.49	75.16	74.38	77.88	75.98	78.56	77.90	73.63	74.59	72.76	75.58	986.97	82.25
1975	75.00	68.52	77.73	77.89	84.38	84.30	88.49	88.96	85.32	86.53	125.93	132.71	1075.75	89.65
1976	141.80	133.78	73.34	72.76	77.49	78.83	86.84	60.15	57.12	84.69	.120.92	124.94	1112.66	92.72
1977	147.92	152.46	106.22	72.47	143.18	139.79	144.09	148.88	116.28	65.83	55.42	266.45	1559.01	129.92
TOTAL	4534.47	3957.74	3202.17	2845.09	3412.98	3597.52	4199.94	3398.32	2372.03	2957.30	2865.51	3933.40	41276.48	3439.71
MEAN	161.95	141.35	114.36	101.61	121.89	128.48	150.00	121.37	84.72	105.62	102.34	140.48	1474.16	122.85

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	90.35	0.	0.	0.	0.	0.	0.	0.	0.	27.11	0.	117.46	9.79
1961	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1962	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1963	89.70	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	89.70	7.48
1964	89.70	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	89.70	7.48
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1967	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1968	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	0.	94.06	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	94.06	7.84
1971	67.70	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	175.69	243.39	20.28
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	93.29	93.29	7.77
TOTAL	247.11	184.41	0.	0.	0.	0.	0.	0.	0.	0.	27.11	268.98	727.61	60.63
MEAN	8.83	6.59	0.	0.	0.	0.	0.	0.	0.	0.	0.97	9.61	25.99	2.17

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
  (AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	200.00	197.80	197.17	194.52	193.47	190.44	186.25	184.22	183.62	182.70	182.30	181.44	2273.93	189.49
1951	192.00	193.28	190.69	191.92	190.47	188.93	185.76	182.70	181.88	182.70	187.86	191.75	2259.95	188.33
1952	199.63	200.00	197.68	198.38	198.27	196.92	193.84	191.57	189.04	190.37	189.66	187.57	2332.94	194.41
1953	184.80	182.70	181.55	180.64	178.79	176.57	175.00	175.00	175.00	179.43	182.24	184.37	2156.08	179.67
1954	188.88	188.56	189.16	192.21	189.31	185.76	183.77	182.70	182.48	183.90	182.70	191.94	2241.37	186.78
1955	198.42	200.00	200.00	200.00	200.00	200.00	197.82	197.46	198.31	198.49	197.25	194.07	2381.80	198.48
1956	190.91	187.53	184.12	182.70	181.52	180.80	180.07	179.30	178.62	178.80	182.70	184.93	2191.99	182.67
1957	183.21	184.27	182.70	181.31	179.91	180.34	180.74	180.62	179.42	182.70	188.80	200.00	2204.01	183.67
1958	200.00	198.62	200.00	200.00	200.00	198.68	196.18	197.35	196.06	196.84	197.46	197.76	2378.95	198.25
1959	197.35	194.44	191.17	187.87	185.21	185.26	183.27	182.70	182.70	184.82	190.37	194.20	2259.38	188.28
1960	198.27	200.00	200.00	200.00	200.00	199.54	200.00	200.00	200.00	200.00	200.00	200.00	2397.82	199.82
1961	200.00	200.00	200.00	199.68	198.65	197.34	194.56	192.92	190.55	192.57	196.90	200.00	2363.17	196.93
1962	200.00	199.93	198.44	199.18	200.00	199.27	196.53	193.92	193.84	196.52	198.59	200.00	2376.23	198.02
1963	200.00	200.00	200.00	200.00	199.09	196.21	194.66	192.88	192.78	193.10	197.61	200.00	2366.33	197.19
1964	200.00	200.00	200.00	199.16	197.04	193.65	192.01	190.03	188.71	190.09	189.75	190.99	2331.42	194.29
1965	187.92	186.93	183.53	182.70	187.58	186.08	182.70	182.84	182.20	186.26	191.96	198.67	2239.37	186.61
1966	200.00	198.70	198.90	200.00	196.96	193.49	188.73	185.50	187.21	191.59	197.68	200.00	2338.75	194.90
1967	200.00	200.00	199.01	197.58	194.45	190.95	188.46	186.03	182.70	185.09	192.51	200.00	2316.79	193.07
1968	200.00	198.18	198.07	197.05	193.52	190.73	187.04	185.10	184.13	187.36	191.98	196.24	2308.89	192.41
1969	196.87	195.57	192.68	191.96	189.07	186.20	182.70	182.70	182.70	188.11	191.84	197.94	2278.36	189.86
1970	200.00	200.00	200.00	200.00	200.00	199.00	196.31	194.94	194.16	194.90	197.52	200.00	2376.84	198.07
1971	200.00	199.96	199.38	200.00	200.00	198.81	196.92	197.69	198.96	200.00	200.00	200.00	2391.71	199.31
1972	200.00	197.92	194.99	192.27	192.89	189.64	185.60	182.70	181.67	187.17	192.63	200.00	2297.49	191.46
1973	199.08	196.45	193.01	189.47	185.16	182.70	181.24	181.43	179.89	177.82	178.87	185.06	2230.19	185.85
1974	184.35	182.70	181.39	180.88	180.29	180.23	180.23	180.92	182.16	182.60	181.49	182.15	2179.40	181.62
1975	182.13	181.18	180.10	178.36	176.40	175.98	175.24	175.57	175.90	176.94	182.70	185.26	2145.77	178.81
1976	186.56	183.59	182.61	181.48	180.10	177.44	175.21	175.00	175.00	179.56	185.87	191.55	2173.97	181.16
1977	188.98	184.97	182.70	181.69	183.56	186.34	188.84	187.31	184.61	191.58	199.26	200.00	2259.85	188.32
TOTAL	5459.38	5433.28	5399.06	5381.02	5351.69	5306.79	5249.69	5221.13	5204.32	5262.02	5348.49	5435.88	64052.75	5337.73
MEAN	194.98	194.05	192.82	192.18	191.13	189.53	187.49	186.47	185.87	187.93	191.02	194.14	2287.60	190.63

Table 1.8 (8) Summary of Case III Study

Condition of study

(1) H.W.L. El. 200 m

(2) L.W.L. El. 175 m

(3) Firm power 10,000 kW

(4) Installed capacity 55,000 kW

(5) Combination of irrigation and hydropower
Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	35.79	27.84	16.80	25.90	13.02	25.31	27.30	21.51	15.87	19.20	10.00	10.00	248.53	20.71
1951	15.70	22.63	23.22	10.00	14.75	24.24	27.34	15.14	10.00	17.58	16.98	20.78	218.36	18.20
1952	10.00	29.26	26.81	14.43	19.50	27.11	31.73	25.82	19.03	22.95	22.50	21.02	270.16	22.51
1953	19.46	15.59	10.00	10.00	10.00	10.00	9.86	5.65	3.57	10.00	10.00	17.70	131.82	10.99
1954	18.17	21.58	14.56	10.00	26.65	25.07	24.86	18.57	10.00	19.03	19.04	17.74	225.26	18.77
1955	16.08	30.26	23.18	28.49	32.65	20.38	34.54	21.49	10.00	23.46	27.29	33.67	301.48	25.12
1956	25.83	26.19	21.40	12.52	10.00	10.00	10.00	10.00	10.00	10.00	14.63	18.36	178.94	14.91
1957	19.77	16.35	12.18	10.00	10.00	10.00	10.00	10.00	10.00	10.72	12.13	19.69	150.84	12.57
1958	45.60	25.85	23.91	22.44	37.56	25.20	32.61	17.15	15.50	23.65	25.90	24.95	320.31	26.69
1959	26.52	29.72	25.13	23.08	22.14	20.08	23.08	15.35	10.22	18.88	10.00	19.44	243.64	20.30
1960	12.34	55.00	25.06	28.68	18.11	20.70	31.20	26.11	14.34	35.19	55.00	38.61	360.35	30.03
1961	30.69	22.84	11.47	10.00	23.27	27.41	33.19	25.64	26.55	10.00	11.06	26.64	258.76	21.56
1962	47.49	27.40	20.93	12.92	26.11	28.01	33.93	26.17	14.96	21.28	25.34	37.04	321.57	26.80
1963	55.00	42.91	19.97	28.68	23.22	29.99	32.58	26.00	13.32	22.44	10.00	48.81	352.92	29.41
1964	55.00	41.03	22.99	14.97	23.58	29.82	23.14	23.99	17.61	15.49	27.65	22.82	318.07	26.51
1965	24.28	18.39	20.44	16.69	10.00	20.08	18.90	19.94	10.00	10.00	10.00	10.00	188.71	15.73
1966	26.91	27.41	14.84	14.62	30.45	29.94	31.73	22.51	10.00	10.00	10.00	19.30	247.70	20.64
1967	35.41	34.34	26.60	19.51	29.01	28.07	23.61	22.49	18.68	10.00	10.00	13.14	270.85	22.57
1968	36.16	28.72	16.22	17.49	29.86	27.97	28.52	22.50	14.34	14.75	16.05	23.66	276.24	23.02
1969	25.05	25.07	25.48	17.38	25.57	25.13	23.42	11.74	10.21	10.00	10.00	10.00	219.06	18.26
1970	44.25	55.00	20.15	30.44	21.51	22.36	33.43	26.41	16.50	25.61	18.67	36.84	351.17	29.26
1971	55.00	25.75	23.33	25.94	21.32	25.27	29.85	24.09	17.17	29.38	29.73	55.00	361.84	30.15
1972	28.23	27.55	26.37	23.83	17.31	25.03	27.78	19.96	10.00	10.00	10.00	12.56	238.62	19.88
1973	27.74	30.85	28.77	26.73	23.67	14.96	10.00	10.00	10.00	10.00	10.00	16.43	219.14	18.26
1974	20.93	12.57	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	133.51	11.13
1975	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	16.42	18.46	134.88	11.24
1976	20.58	21.11	10.00	10.00	10.00	10.00	10.00	6.70	6.55	10.00	16.88	19.21	151.05	12.59
1977	23.46	25.06	14.73	10.00	19.31	20.53	21.67	22.62	17.47	10.00	10.00	55.00	249.84	20.82
TOTAL	811.42	776.26	544.53	494.73	568.56	602.65	664.26	517.55	361.89	449.62	475.28	676.86	6943.61	578.63
MEAN	28.98	27.72	19.45	17.67	20.31	21.52	23.72	18.48	12.92	16.06	16.97	24.17	247.99	20.67

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	26.62	18.71	12.50	18.65	9.69	18.22	20.31	16.01	11.43	14.28	7.20	7.44	181.05	15.09
1951	11.68	15.21	17.27	7.20	10.97	17.45	20.34	11.26	7.20	13.08	12.23	15.46	159.36	13.28
1952	7.44	19.66	19.95	10.39	14.51	19.52	23.61	19.21	13.70	17.07	16.20	15.64	196.90	16.41
1953	14.48	10.47	7.44	7.20	7.44	7.20	7.33	4.20	2.57	7.44	7.20	13.17	96.15	8.01
1954	13.52	14.50	10.83	7.20	19.83	18.05	18.49	13.81	7.20	14.16	13.71	13.20	164.50	13.71
1955	11.96	20.33	17.24	20.51	24.29	14.67	25.70	15.99	7.20	17.46	19.65	25.05	220.05	18.34
1956	19.22	17.60	15.92	9.01	7.44	7.20	7.44	7.44	7.20	7.44	10.53	13.66	130.11	10.84
1957	14.71	10.99	9.06	7.20	7.44	7.20	7.44	7.44	7.20	7.98	8.73	14.65	110.03	9.17
1958	33.93	17.37	17.79	16.16	27.94	18.15	24.26	12.76	11.16	17.59	18.65	18.56	234.31	19.53
1959	19.73	19.97	18.70	16.62	16.47	14.46	17.17	11.42	7.36	14.05	7.20	14.46	177.60	14.80
1960	9.18	36.96	18.65	20.65	13.47	14.90	23.21	19.43	10.32	26.18	39.60	28.73	261.29	21.77
1961	22.83	15.35	8.53	7.20	17.31	19.74	24.69	19.08	19.12	7.44	7.96	19.82	189.07	15.76
1962	35.33	18.42	15.57	9.30	19.42	20.17	25.24	19.47	10.77	15.83	18.24	27.56	235.32	19.61
1963	40.92	28.83	14.85	20.65	17.28	21.59	24.24	19.34	9.59	16.70	7.20	36.32	257.52	21.46
1964	40.92	27.57	17.10	10.78	17.54	21.47	17.21	17.85	12.68	11.53	19.91	16.98	231.53	19.29
1965	18.06	12.36	15.21	12.02	7.44	14.46	14.06	14.83	7.20	7.44	7.20	7.44	137.71	11.48
1966	20.02	18.42	11.04	10.52	22.66	21.55	23.61	16.74	7.20	7.44	7.20	14.36	180.76	15.06
1967	26.34	23.07	19.79	14.05	21.58	20.21	17.56	16.73	13.45	7.44	7.20	9.77	197.21	16.43
1968	26.91	19.30	12.07	12.59	22.21	20.14	21.22	16.74	10.33	10.98	11.56	17.60	201.64	16.80
1969	18.64	16.85	18.96	12.51	19.03	18.09	17.43	8.74	7.35	7.44	7.20	7.44	159.67	13.31
1970	32.92	36.96	15.00	21.91	16.00	16.10	24.87	19.65	11.88	19.05	13.44	27.41	255.20	21.27
1971	40.92	17.30	17.36	18.68	15.86	18.19	22.21	17.92	12.37	21.86	21.41	40.92	265.00	22.08
1972	21.01	18.51	19.62	17.16	12.88	18.02	20.67	14.85	7.20	7.44	7.20	9.34	173.89	14.49
1973	20.64	20.73	21.41	19.24	17.61	10.77	7.44	7.44	7.20	7.44	7.20	12.22	159.34	13.28
1974	15.57	8.45	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	7.20	7.44	97.46	8.12
1975	7.44	6.72	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	11.82	13.73	98.51	8.21
1976	15.31	14.19	7.44	7.20	7.44	7.20	7.44	4.98	4.72	7.44	12.16	14.29	109.82	9.15
1977	17.45	16.84	10.96	7.20	14.36	14.78	16.12	16.83	12.58	7.44	7.20	40.92	182.68	15.22
TOTAL	603.70	521.65	405.13	356.20	423.01	433.91	494.21	385.06	260.56	334.52	342.20	503.59	5063.73	421.98
MEAN	21.56	18.63	14.47	12.72	15.11	15.50	17.65	13.75	9.31	11.95	12.22	17.99	180.85	15.07

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	189.56	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	140.62	71.97	75.51	1514.56	126.21
1951	106.40	123.20	141.69	59.81	91.38	149.56	182.76	108.21	72.31	131.38	114.77	132.17	1413.65	117.80
1952	57.01	140.41	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1544.32	128.69
1953	133.24	101.74	75.01	74.45	79.59	81.10	86.87	50.88	31.12	84.83	74.93	129.22	1002.98	83.58
1954	123.33	126.66	94.35	60.52	166.47	161.56	175.55	135.75	71.83	139.30	134.51	118.73	1508.54	125.71
1955	92.49	146.65	122.76	146.02	172.94	104.48	186.31	118.46	53.11	127.66	145.01	192.09	1607.99	134.00
1956	156.14	152.24	147.72	88.24	75.05	74.34	78.18	79.63	78.48	81.61	109.79	132.53	1253.95	104.50
1957	141.82	106.74	88.56	72.81	77.85	76.23	77.98	77.69	76.43	82.54	81.18	114.83	1074.68	89.56
1958	241.56	125.12	128.10	115.02	198.94	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1709.63	142.47
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	112.92	73.23	136.42	64.36	117.92	1548.71	129.06
1960	69.66	266.92	132.76	147.02	95.94	106.51	165.90	138.33	73.49	186.41	281.94	204.55	1869.45	155.79
1961	162.56	109.29	60.76	51.39	124.98	145.31	188.37	151.46	157.54	61.51	62.09	144.79	1420.06	118.34
1962	251.56	131.18	112.37	67.56	139.22	144.45	186.17	150.45	85.28	122.43	135.35	198.52	1724.52	143.71
1963	291.34	205.29	105.76	147.02	123.95	159.93	186.60	153.46	77.43	134.54	55.50	263.76	1904.59	158.72
1964	291.34	196.29	121.76	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1791.62	149.30
1965	155.49	110.77	142.89	118.44	70.04	131.21	134.60	147.34	71.90	71.43	62.38	57.37	1273.86	106.15
1966	144.11	137.58	80.18	75.61	165.46	166.56	196.82	151.16	66.01	64.11	56.21	104.20	1403.01	116.92
1967	187.56	164.29	142.05	102.89	164.46	163.56	150.50	150.62	128.87	72.00	62.81	74.17	1563.79	130.32
1968	191.56	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1628.50	135.71
1969	140.66	127.89	149.39	101.98	160.47	161.56	166.60	86.94	73.15	69.63	61.34	57.83	1357.44	113.12
1970	238.45	263.15	106.76	156.02	113.94	115.59	184.23	150.74	92.94	149.06	102.06	199.21	1872.17	156.01
1971	291.34	123.23	124.26	133.67	112.94	130.82	163.88	133.54	90.54	156.98	152.42	291.34	1904.98	158.75
1972	149.56	134.08	148.34	136.47	104.45	149.84	184.70	142.99	72.49	71.16	61.43	70.82	1426.33	118.86
1973	148.04	153.26	166.90	160.07	158.36	104.19	75.29	76.48	75.23	81.30	79.70	123.71	1402.54	116.88
1974	148.04	82.49	75.16	74.38	77.88	75.98	78.56	77.90	73.63	74.59	72.76	75.58	986.97	82.25
1975	75.00	68.52	77.73	77.89	84.38	84.30	88.49	88.96	85.32	86.53	125.93	132.71	1075.75	89.65
1976	141.80	133.78	73.34	72.76	77.49	78.83	86.84	60.15	57.12	84.69	120.92	124.94	1112.66	92.72
1977	147.92	152.46	106.22	72.47	143.18	139.79	144.09	148.88	116.28	65.83	55.42	293.10	1585.65	132.14
TOTAL	4613.93	4005.93	3207.17	2845.09	3412.98	3597.52	4199.94	3398.32	2372.03	2957.30	2891.14	3986.53	41482.89	3456.91
MEAN	164.78	143.07	114.36	101.61	121.89	128.48	150.00	121.37	84.72	105.62	103.26	142.38	1481.53	123.46

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	66.08	0.	0.	0.	0.	0.	0.	0.	0.	1.48	0.	67.56	5.63
1961	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1962	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1963	63.22	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	63.22	5.27
1964	63.22	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	63.22	5.27
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1967	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1968	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	0.	70.14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	70.14	5.85
1971	41.22	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	149.21	190.42	15.87
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	66.64	66.64	5.55
TOTAL	167.65	136.23	0.	0.	0.	0.	0.	0.	0.	0.	1.48	215.85	521.20	43.43
MEAN	5.99	4.87	0.	0.	0.	0.	0.	0.	0.	0.	0.05	7.71	18.61	1.55

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	200.00	197.80	197.17	194.52	193.47	190.44	186.25	184.22	183.62	182.70	182.30	181.44	2273.93	189.49
1951	192.00	193.28	190.69	191.92	190.47	188.93	185.76	182.70	181.88	182.70	187.86	191.75	2259.95	188.33
1952	199.63	200.00	197.68	198.38	198.27	196.97	193.84	191.57	189.04	190.37	189.66	187.57	2332.94	194.41
1953	184.80	182.70	181.55	180.64	178.79	176.57	175.00	175.00	175.00	179.43	182.24	184.37	2156.08	179.67
1954	188.88	188.56	189.16	192.21	189.31	185.76	183.77	182.70	182.48	183.90	182.70	191.94	2241.37	186.78
1955	198.42	200.00	200.00	200.00	200.00	200.00	197.82	197.46	198.31	198.49	197.25	194.07	2381.80	198.48
1956	190.91	187.53	184.12	182.70	181.52	180.80	180.07	179.30	178.62	178.80	182.70	184.93	2191.99	182.67
1957	183.21	184.27	182.70	181.31	179.91	180.34	180.74	180.62	179.42	182.70	188.80	200.00	2204.01	183.67
1958	200.00	198.62	200.00	200.00	200.00	198.68	196.18	197.35	196.06	196.84	197.46	197.76	2378.95	198.25
1959	197.35	194.44	191.17	187.87	185.21	185.26	183.27	182.70	182.70	184.82	190.37	194.20	2259.38	188.28
1960	198.27	200.00	200.00	200.00	200.00	199.54	200.00	200.00	200.00	200.00	200.00	200.00	2397.82	199.82
1961	200.00	200.00	200.00	199.68	198.65	197.34	194.56	192.92	190.55	192.57	196.90	200.00	2363.17	196.93
1962	200.00	199.93	198.44	199.18	200.00	199.27	196.53	193.92	193.84	196.52	198.59	200.00	2376.23	198.02
1963	200.00	200.00	200.00	200.00	199.09	196.21	194.66	192.88	192.78	193.10	197.61	200.00	2366.33	197.19
1964	200.00	200.00	200.00	199.16	197.04	193.65	192.01	190.03	188.71	190.09	189.75	190.99	2331.42	194.29
1965	187.92	186.93	183.53	182.70	187.58	186.08	182.70	182.84	182.20	186.26	191.96	198.67	2239.37	186.61
1966	200.00	198.70	198.90	200.00	196.96	193.49	188.73	185.50	187.71	191.59	197.68	200.00	2338.75	194.90
1967	200.00	200.00	199.01	197.58	194.45	190.95	188.46	186.03	182.70	185.09	192.51	200.00	2316.79	193.07
1968	200.00	198.18	198.07	197.05	193.52	190.23	187.04	185.10	184.13	187.36	191.98	196.24	2308.89	192.41
1969	196.87	195.57	192.68	191.96	189.07	186.20	182.70	182.70	182.70	188.11	191.84	197.94	2278.36	189.86
1970	200.00	200.00	200.00	200.00	200.00	199.00	196.31	194.94	194.16	194.90	197.52	200.00	2376.84	198.07
1971	200.00	199.96	199.38	200.00	200.00	198.81	196.92	197.69	198.96	200.00	200.00	200.00	2391.71	199.31
1972	200.00	197.92	194.99	192.27	192.89	189.64	185.60	182.70	181.67	187.17	192.63	200.00	2297.49	191.46
1973	199.08	196.45	193.01	189.47	185.16	182.70	181.24	181.43	179.89	177.82	178.87	185.06	2230.19	185.85
1974	184.35	182.70	181.39	180.88	180.29	180.23	180.23	180.92	182.16	182.60	181.49	182.15	2179.40	181.62
1975	182.13	181.18	180.10	178.36	176.40	175.98	175.24	175.57	175.90	176.94	182.70	185.26	2145.77	178.81
1976	186.56	183.59	182.61	181.48	180.10	177.44	175.21	175.00	175.00	179.56	185.87	191.55	2173.97	181.16
1977	188.98	184.97	182.70	181.69	183.56	186.34	188.84	187.31	184.61	191.58	199.26	200.00	2259.85	188.32
TOTAL	5459.38	5433.28	5399.06	5381.02	5351.69	5306.79	5249.69	5221.13	5204.32	5262.02	5348.49	5435.88	64052.75	5337.73
MEAN	194.98	194.05	192.82	192.18	191.13	189.53	187.49	186.47	185.87	187.93	191.02	194.14	2287.60	190.63

Table 1.8 (9) Summary of Case III Study

Condition of study

(1) H.W.L. El. 200 m

(2) L.W.L. El. 175 m

(3) Firm power 10,000 kW

(4) Installed capacity 66,000 kW

(5) Combination of irrigation and hydropower Before Kotmale

★ MORAGAHAKANDA POWER STATION
★ MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	35.79	27.84	16.80	25.90	13.02	25.31	27.30	21.51	15.87	19.20	10.00	10.00	248.53	20.71
1951	15.70	22.63	23.22	10.00	14.75	24.24	27.34	15.14	10.00	17.58	16.98	20.78	218.36	18.20
1952	10.00	29.26	26.81	14.43	19.50	27.11	31.73	25.82	19.03	22.95	22.50	21.02	270.16	22.51
1953	19.46	15.59	10.00	10.00	10.00	10.00	9.86	5.65	3.57	10.00	10.00	17.70	131.82	10.99
1954	18.17	21.58	14.56	10.00	26.45	25.07	24.86	18.57	10.00	19.03	19.04	17.74	225.26	18.77
1955	16.08	30.26	23.18	28.49	32.65	20.38	34.54	21.49	10.00	23.46	27.29	33.67	301.48	25.12
1956	25.83	26.19	21.40	12.52	10.00	10.00	10.00	10.00	10.00	10.00	14.63	18.36	178.94	14.91
1957	19.77	16.35	12.18	10.00	10.00	10.00	10.00	10.00	10.00	10.72	12.13	19.69	150.84	12.57
1958	45.60	25.85	23.91	22.44	37.56	25.20	32.61	17.15	15.50	23.65	25.90	24.95	320.31	26.69
1959	26.52	29.72	25.13	23.08	22.14	20.08	23.08	15.35	10.22	18.88	10.00	19.44	243.64	20.30
1960	12.34	66.00	25.06	28.68	18.11	20.70	31.20	26.11	14.34	35.19	55.29	38.61	371.64	30.97
1961	30.69	22.84	11.47	10.00	23.27	27.41	33.19	25.64	26.55	10.00	11.06	26.64	258.76	21.56
1962	47.49	27.40	20.93	12.92	26.11	28.01	33.93	26.17	14.96	21.28	25.34	37.04	321.57	26.80
1963	66.00	42.91	19.97	28.68	23.22	29.99	32.58	26.00	13.32	22.44	10.00	48.81	363.92	30.33
1964	66.00	41.03	22.99	14.97	23.58	29.82	23.14	23.99	17.61	15.49	27.65	22.82	329.07	27.42
1965	24.28	18.39	20.44	16.69	10.00	20.08	18.90	19.94	10.00	10.00	10.00	10.00	188.71	15.73
1966	26.91	27.41	14.84	14.62	30.45	29.94	31.73	22.51	10.00	10.00	10.00	19.30	247.70	20.64
1967	35.41	34.34	26.60	19.51	29.01	28.07	23.61	22.49	18.68	10.00	10.00	13.14	270.85	22.57
1968	36.16	28.72	16.22	17.49	29.86	27.97	28.52	22.50	14.34	14.75	16.05	23.66	276.24	23.02
1969	25.05	25.07	25.48	17.38	25.57	25.13	23.42	11.74	10.21	10.00	10.00	10.00	219.06	18.26
1970	44.25	66.00	20.15	30.44	21.51	22.36	33.43	26.41	16.50	25.61	18.67	36.84	362.17	30.18
1971	62.78	25.75	23.33	25.94	21.32	25.27	29.85	24.09	17.17	29.38	29.73	66.00	380.62	31.72
1972	28.23	27.55	26.37	23.83	17.31	25.03	27.78	19.96	10.00	10.00	10.00	12.56	238.62	19.88
1973	27.74	30.85	28.77	26.73	23.67	14.96	10.00	10.00	10.00	10.00	10.00	16.43	219.14	18.26
1974	20.93	12.57	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	133.51	11.13
1975	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	16.42	18.46	134.88	11.24
1976	20.58	21.11	10.00	10.00	10.00	10.00	10.00	6.70	6.55	10.00	16.88	19.21	151.05	12.59
1977	23.46	25.06	14.73	10.00	19.31	20.53	21.67	22.62	17.47	10.00	10.00	66.00	260.84	21.74
TOTAL	841.21	798.26	544.53	494.73	568.56	602.65	664.26	517.55	361.89	449.62	475.56	698.86	7017.68	584.81
MEAN	30.04	28.51	19.45	17.67	20.31	21.52	23.72	18.48	12.92	16.06	16.98	24.96	250.63	20.89

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	26.62	18.71	12.50	18.65	9.69	18.22	20.31	16.01	11.43	14.28	7.20	7.44	181.05	15.09
1951	11.68	15.21	17.27	7.20	10.97	17.45	20.34	11.26	7.20	13.08	12.23	15.46	159.36	13.28
1952	7.44	19.66	19.95	10.39	14.51	19.52	23.61	19.21	13.70	17.07	16.20	15.64	196.90	16.41
1953	14.48	10.47	7.44	7.20	7.44	7.20	7.33	4.20	2.57	7.44	7.20	13.17	96.15	8.01
1954	13.52	14.50	10.83	7.20	19.83	18.05	18.49	13.81	7.20	14.16	13.71	13.20	164.50	13.71
1955	11.96	20.33	17.24	20.51	21.29	14.67	25.70	15.99	7.20	17.46	19.65	25.05	220.05	18.34
1956	19.22	17.60	15.92	9.01	7.44	7.20	7.44	7.44	7.20	7.44	10.53	13.66	130.11	10.84
1957	14.71	10.99	9.06	7.20	7.44	7.20	7.44	7.44	7.20	7.98	8.73	14.65	110.03	9.17
1958	33.93	17.37	17.79	16.16	21.94	18.15	24.26	12.76	11.16	17.59	18.65	18.56	234.31	19.53
1959	19.73	19.97	18.70	16.62	16.47	14.46	17.17	11.42	7.36	14.05	7.20	14.46	177.60	14.80
1960	9.18	44.35	18.65	20.65	13.47	14.90	23.21	19.43	10.32	26.18	39.81	28.73	268.89	22.41
1961	22.83	15.35	8.53	7.20	17.31	19.74	24.69	19.08	19.12	7.44	7.96	19.82	189.07	15.76
1962	35.33	18.42	15.57	9.30	19.42	20.17	25.24	19.47	10.77	15.83	18.24	27.56	235.32	19.61
1963	49.10	28.83	14.85	20.65	17.28	21.59	24.24	19.34	9.59	16.70	7.20	36.32	265.70	22.14
1964	49.10	27.57	17.10	10.78	17.54	21.47	17.21	17.85	12.68	11.53	19.91	16.98	239.72	19.98
1965	18.06	12.36	15.21	12.02	7.44	14.46	14.06	14.83	7.20	7.44	7.20	7.44	137.71	11.48
1966	20.02	18.42	11.04	10.52	22.66	21.55	23.61	16.74	7.20	7.44	7.20	14.36	180.76	15.06
1967	26.34	23.07	19.79	14.05	21.58	20.21	17.56	16.73	13.45	7.44	7.20	9.77	197.21	16.43
1968	26.91	19.30	12.07	12.59	22.21	20.14	21.22	16.74	10.33	10.98	11.56	17.60	201.64	16.80
1969	18.64	16.85	18.96	12.51	19.03	18.09	17.43	8.74	7.35	7.44	7.20	7.44	159.67	13.31
1970	32.92	44.35	15.00	21.91	16.00	16.10	24.87	19.65	11.88	19.05	13.44	27.41	262.59	21.88
1971	46.71	17.30	17.36	18.68	15.86	18.19	22.21	17.92	12.37	21.86	21.41	49.10	278.97	23.25
1972	21.01	18.51	19.62	17.16	12.88	18.02	20.67	14.85	7.20	7.44	7.20	9.34	173.89	14.49
1973	20.64	20.73	21.41	19.24	17.61	10.77	7.44	7.44	7.20	7.44	7.20	12.22	159.34	13.28
1974	15.57	8.45	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	7.20	7.44	97.46	8.12
1975	7.44	6.72	7.44	7.20	7.44	7.20	7.44	7.44	7.20	7.44	11.82	13.73	98.51	8.21
1976	15.31	14.19	7.44	7.20	7.44	7.20	7.44	4.98	4.72	7.44	12.16	14.29	109.82	9.15
1977	17.45	16.84	10.96	7.20	14.36	14.78	16.12	16.83	12.58	7.44	7.20	49.10	190.87	15.91
TOTAL	625.86	536.43	405.13	356.20	473.01	433.91	494.21	385.06	260.56	334.52	342.41	519.95	5117.24	426.44
MEAN	22.35	19.16	14.47	12.72	15.11	15.50	17.65	13.75	9.31	11.95	12.23	18.57	182.76	15.23

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	189.56	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	140.62	71.97	75.51	1514.56	126.21
1951	106.40	173.20	141.69	59.81	91.38	149.56	182.76	108.21	72.31	131.38	114.77	132.17	1413.65	117.80
1952	57.01	140.41	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1544.32	128.69
1953	133.24	101.74	75.01	74.45	79.59	81.10	86.87	50.88	31.12	84.83	74.93	129.22	1002.98	83.58
1954	123.33	126.66	94.35	60.52	166.47	161.56	175.55	135.75	71.83	139.30	134.51	118.73	1508.54	125.71
1955	92.49	146.65	122.76	146.02	172.94	104.48	186.31	118.46	53.11	127.66	145.01	192.09	1607.99	134.00
1956	156.14	152.24	147.72	88.24	75.05	74.34	78.18	79.63	78.48	81.61	109.79	132.53	1253.95	104.50
1957	141.82	106.74	88.56	72.81	77.85	76.23	77.98	77.69	76.43	82.54	81.18	114.83	1074.68	89.56
1958	241.56	125.12	128.10	115.02	198.94	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1709.63	142.47
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	112.92	73.23	136.42	64.36	117.92	1548.71	129.06
1960	69.66	320.31	132.76	147.02	95.94	106.51	165.90	138.33	73.49	186.41	283.42	204.55	1924.31	160.36
1961	162.56	109.29	60.76	51.39	124.98	145.31	188.37	151.46	157.54	61.51	62.09	144.79	1420.06	118.34
1962	251.56	131.18	112.37	67.56	139.22	144.45	186.17	150.45	85.28	122.43	135.35	198.52	1724.52	143.71
1963	349.61	205.29	105.76	147.02	123.95	159.93	186.60	153.46	77.43	134.54	55.50	263.76	1962.86	163.57
1964	349.61	196.29	121.76	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1849.89	154.16
1965	155.49	110.77	142.89	118.44	70.04	131.21	134.60	147.34	71.90	71.43	62.38	57.37	1273.86	106.15
1966	144.11	132.58	80.18	75.61	165.46	166.56	196.82	151.16	66.01	64.11	56.21	104.20	1403.01	116.92
1967	187.56	164.29	142.05	102.89	164.46	163.56	150.50	150.62	128.87	72.00	62.81	74.17	1563.79	130.32
1968	191.56	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1628.50	135.71
1969	140.66	127.89	149.39	101.98	160.47	161.56	166.60	86.94	73.15	69.63	61.34	57.83	1357.44	113.12
1970	238.45	315.78	106.76	156.02	113.94	115.59	184.23	150.74	92.94	149.06	102.06	199.21	1924.80	160.40
1971	332.56	123.23	124.26	133.67	112.94	130.82	163.88	133.54	90.54	156.98	152.42	349.61	2004.47	167.04
1972	149.56	134.08	148.34	136.47	104.45	149.84	184.70	142.99	72.49	71.16	61.43	70.82	1426.33	118.86
1973	148.04	153.26	166.90	160.07	158.36	104.19	75.29	76.48	75.23	81.30	79.70	123.71	1402.54	116.88
1974	148.04	82.49	75.16	74.38	77.88	75.98	78.56	77.90	73.63	74.59	72.76	75.58	986.97	82.25
1975	75.00	68.52	77.73	77.89	84.38	84.30	88.49	88.96	85.32	86.53	125.93	132.71	1075.75	89.65
1976	141.80	133.78	73.34	72.76	77.49	78.83	86.84	60.15	57.12	84.69	120.92	124.94	1112.66	92.72
1977	147.92	152.46	106.22	72.47	143.18	139.79	144.09	148.88	116.28	65.83	55.42	351.71	1644.27	137.02
TOTAL	4771.69	4111.94	3202.17	2845.09	3412.98	3597.52	4199.94	3398.32	2372.03	2957.30	2892.62	4103.42	41865.02	3488.75
MEAN	170.42	144.86	114.36	101.61	121.89	128.48	150.00	121.37	84.72	105.62	103.31	146.55	1495.18	124.60

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	12.70	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	12.70	1.06
1961	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1962	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1963	4.95	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.95	0.41
1964	4.95	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.95	0.41
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1967	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1968	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	0.	17.51	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	17.51	1.46
1971	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	90.94	90.94	7.58
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.02	8.02	0.67
TOTAL	9.90	30.21	0.	0.	0.	0.	0.	0.	0.	0.	0.	98.96	139.07	11.59
MEAN	0.35	1.08	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.53	4.97	0.41

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	200.00	197.80	197.17	194.52	193.47	190.44	186.25	184.22	183.62	182.70	182.30	181.44	2273.93	189.49
1951	192.00	193.28	190.69	191.92	190.47	188.93	185.76	182.70	181.88	182.70	187.86	191.75	2259.95	188.33
1952	199.63	200.00	197.68	198.38	198.27	196.92	193.84	191.57	189.04	190.37	189.66	187.57	2332.94	194.41
1953	184.80	182.70	181.55	180.64	178.79	176.57	175.00	175.00	175.00	179.43	182.24	184.37	2156.08	179.67
1954	188.88	188.56	189.16	192.21	189.31	185.76	183.77	182.70	182.48	183.90	182.70	191.94	2241.37	186.78
1955	198.42	200.00	200.00	200.00	200.00	200.00	197.82	197.46	198.31	198.49	197.25	194.07	2381.80	198.48
1956	190.91	187.53	184.12	182.70	181.52	180.80	180.07	179.30	178.62	178.80	182.70	184.93	2191.99	182.67
1957	183.21	184.27	182.70	181.31	179.91	180.34	180.74	180.62	179.42	182.70	188.80	200.00	2204.01	183.67
1958	200.00	198.62	200.00	200.00	200.00	198.68	196.18	197.35	196.06	196.84	197.46	197.76	2378.95	198.25
1959	197.35	194.44	191.17	187.87	185.21	185.26	183.27	182.70	182.70	184.82	190.37	194.20	2259.38	188.28
1960	198.27	200.00	200.00	200.00	200.00	199.54	200.00	200.00	200.00	200.00	200.00	200.00	2397.82	199.82
1961	200.00	200.00	200.00	199.68	198.65	197.34	194.56	192.92	190.55	192.57	196.90	200.00	2363.17	196.93
1962	200.00	199.93	198.44	199.18	200.00	199.27	196.53	193.92	193.84	196.52	198.59	200.00	2376.23	198.02
1963	200.00	200.00	200.00	200.00	199.09	196.21	194.66	192.88	192.78	193.10	197.61	200.00	2366.33	197.19
1964	200.00	200.00	200.00	199.16	197.04	193.65	192.01	190.03	188.71	190.09	189.75	190.99	2331.42	194.29
1965	187.92	186.93	183.53	182.70	187.58	186.08	182.70	182.84	182.20	186.26	191.96	198.67	2239.37	186.61
1966	200.00	198.70	198.90	200.00	196.96	193.49	188.73	185.50	187.21	191.59	197.68	200.00	2338.75	194.90
1967	200.00	200.00	199.01	197.58	194.45	190.95	188.46	186.03	182.70	185.09	192.51	200.00	2316.79	193.07
1968	200.00	198.18	198.07	197.05	193.52	190.23	187.04	185.10	184.13	187.36	191.98	196.24	2308.89	192.41
1969	196.87	195.57	192.68	191.96	189.07	186.20	182.70	182.70	182.70	188.11	191.84	197.94	2278.36	189.86
1970	200.00	200.00	200.00	200.00	200.00	199.00	196.31	194.94	194.16	194.90	197.52	200.00	2376.84	198.07
1971	200.00	199.96	199.38	200.00	200.00	198.81	196.92	197.69	198.96	200.00	200.00	200.00	2391.71	199.31
1972	200.00	197.92	194.99	192.27	192.89	189.64	185.60	182.70	181.67	187.17	192.63	200.00	2297.49	191.46
1973	199.08	196.45	193.01	189.47	185.16	182.70	181.24	181.43	179.89	177.82	178.87	185.06	2230.19	185.85
1974	184.35	182.70	181.39	180.88	180.29	180.23	180.23	180.92	182.16	182.60	181.49	182.15	2179.40	181.62
1975	182.13	181.18	180.10	178.36	176.40	175.98	175.24	175.57	175.90	176.94	182.70	185.26	2145.77	178.81
1976	186.56	183.59	182.61	181.48	180.10	177.44	175.21	175.00	175.00	179.56	185.87	191.55	2173.97	181.16
1977	188.98	184.97	182.70	181.69	183.56	186.34	188.84	187.31	184.61	191.58	199.26	200.00	2259.85	188.32
TOTAL	5459.38	5433.28	5399.06	5381.02	5351.69	5306.79	5249.69	5221.13	5204.32	5262.02	5348.49	5435.88	64052.75	5337.73
MEAN	194.98	194.05	192.82	192.18	191.13	189.53	187.49	186.47	185.87	187.93	191.02	194.14	2287.60	190.63

Table 1.8 (10) Summary of Case III Study

Condition of study

(1) H.W.L. El. 195 m

(2) L.W.L. El. 170 m

(3) Firm power 6,000 kW

(4) Installed capacity 20,000 kW

(5) Combination of irrigation and hydropower
Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW.

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	20.00	20.00	15.23	20.00	11.59	20.00	20.00	18.01	13.10	16.43	6.83	6.00	187.18	15.60
1951	13.55	20.00	20.00	12.05	13.15	20.00	20.00	14.35	6.00	15.91	13.30	18.12	186.44	15.54
1952	8.80	20.00	20.00	13.12	17.75	20.00	20.00	20.00	16.50	19.81	19.46	18.07	213.51	17.79
1953	16.47	13.91	6.00	6.00	6.00	6.00	5.01	4.91	3.13	11.44	14.81	15.08	108.76	9.06
1954	14.43	19.22	7.03	6.00	20.00	20.00	20.00	19.05	18.65	12.70	18.23	13.46	188.76	15.73
1955	13.06	20.00	20.00	20.00	20.00	18.85	20.00	19.51	7.08	20.00	20.00	20.00	218.50	18.21
1956	20.00	20.00	18.02	11.12	6.00	6.00	6.00	6.00	6.02	9.37	14.64	16.66	139.84	11.65
1957	17.98	14.87	18.04	7.79	6.00	7.85	9.85	8.15	6.00	14.38	6.00	20.00	136.92	11.41
1958	20.00	20.00	20.00	20.00	20.00	20.00	20.00	15.51	14.02	20.00	20.00	20.00	229.53	19.13
1959	20.00	20.00	20.00	19.96	18.78	16.87	19.21	13.70	8.34	14.20	6.00	18.74	195.80	16.32
1960	12.90	20.00	20.00	20.00	16.75	18.85	20.00	20.00	13.31	20.00	20.00	20.00	221.81	18.48
1961	20.00	20.00	10.65	6.80	20.00	20.00	20.00	20.00	20.00	8.47	10.22	20.00	196.14	16.35
1962	20.00	20.00	19.13	11.79	20.00	20.00	20.00	20.00	12.91	19.12	20.00	20.00	222.96	18.58
1963	20.00	20.00	18.45	20.00	20.00	20.00	20.00	20.00	11.76	19.84	6.00	20.00	216.05	18.00
1964	20.00	20.00	20.00	13.71	20.00	20.00	20.00	20.00	15.15	13.34	20.00	19.80	222.01	18.50
1965	20.00	15.74	17.18	14.75	6.00	18.51	17.16	14.80	8.26	6.00	6.00	9.16	153.57	12.80
1966	20.00	20.00	13.54	13.72	20.00	20.00	20.00	19.07	7.10	6.00	6.00	20.00	185.43	15.45
1967	20.00	20.00	20.00	18.18	20.00	20.00	20.00	19.08	15.81	6.00	6.00	18.70	203.76	16.98
1968	20.00	20.00	14.75	15.87	20.00	20.00	20.00	19.00	11.94	12.42	13.93	20.00	207.91	17.33
1969	20.00	20.00	20.00	15.36	20.00	20.00	20.00	9.55	8.28	6.00	10.79	6.00	175.98	14.67
1970	20.00	20.00	18.62	20.00	19.87	20.00	20.00	20.00	14.75	20.00	16.85	20.00	230.09	19.17
1971	20.00	20.00	20.00	20.00	19.70	20.00	20.00	20.00	15.66	20.00	20.00	20.00	235.35	19.61
1972	20.00	20.00	20.00	20.00	15.24	20.00	20.00	17.07	6.00	6.00	6.00	20.00	190.31	15.86
1973	20.00	20.00	20.00	20.00	20.00	12.78	6.00	6.41	6.00	6.00	6.11	14.84	158.14	13.18
1974	19.29	20.00	7.48	6.73	6.65	8.41	8.63	10.76	12.48	9.59	6.00	8.88	124.88	10.41
1975	8.15	6.00	6.00	6.00	6.00	6.00	6.00	7.38	10.46	12.08	15.52	17.59	107.17	8.93
1976	19.66	20.00	18.63	13.13	6.00	6.00	5.19	5.29	5.69	11.75	15.04	17.71	144.08	12.01
1977	20.00	20.00	18.12	10.90	16.12	17.62	18.93	19.80	15.13	6.00	13.25	20.00	195.87	16.32
TOTAL	504.27	529.74	466.89	402.99	431.58	463.74	461.99	427.41	309.53	362.87	356.99	478.80	5196.77	433.06
MEAN	18.01	18.92	16.67	14.39	15.41	16.56	16.50	15.26	11.05	12.96	12.75	17.10	185.60	15.47

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	14.88	13.44	11.33	14.40	8.62	14.40	14.88	13.40	9.43	12.22	4.92	4.46	136.39	11.37
1951	10.08	13.44	14.88	8.68	9.78	14.40	14.88	10.68	4.32	11.84	9.58	13.48	136.04	11.34
1952	6.55	13.44	14.88	9.44	13.21	14.40	14.88	14.88	11.88	14.74	14.01	13.44	155.76	12.98
1953	12.25	9.35	4.46	4.32	4.46	4.32	3.73	3.65	2.25	8.51	10.66	11.22	79.19	6.60
1954	10.73	12.91	5.23	4.32	14.88	14.40	14.88	14.17	13.43	9.45	13.13	10.01	137.54	11.46
1955	9.71	13.44	14.88	14.40	14.88	13.57	14.88	14.52	5.10	14.88	14.40	14.88	159.54	13.29
1956	14.88	13.44	13.41	8.01	4.46	4.32	4.46	4.46	4.33	6.97	10.54	12.40	101.69	8.47
1957	13.38	9.99	13.43	5.61	4.46	5.65	7.33	6.06	4.32	10.70	4.32	14.88	100.13	8.34
1958	14.88	13.44	14.88	14.40	14.88	14.40	14.88	11.54	10.09	14.88	14.40	14.88	167.56	13.96
1959	14.88	13.44	14.88	14.37	13.97	12.15	14.29	10.19	6.00	10.56	4.32	13.95	143.00	11.92
1960	9.60	13.44	14.88	14.40	12.46	13.57	14.88	14.88	9.59	14.88	14.40	14.88	161.85	13.49
1961	14.88	13.44	7.93	4.89	14.88	14.40	14.88	14.88	14.40	6.31	7.36	14.88	143.12	11.93
1962	14.88	13.44	14.24	8.49	14.88	14.40	14.88	14.88	9.30	14.23	14.40	14.88	162.89	13.57
1963	14.88	13.44	13.72	14.40	14.88	14.40	14.88	14.88	8.47	14.76	4.32	14.88	157.92	13.16
1964	14.88	13.44	14.88	9.87	14.88	14.40	14.88	14.88	10.91	9.93	14.40	14.73	162.08	13.51
1965	14.88	10.58	12.78	10.62	4.46	13.33	12.77	11.01	5.95	4.46	4.32	6.82	111.99	9.33
1966	14.88	13.44	10.07	9.88	14.88	14.40	14.88	14.19	5.11	4.46	4.32	14.88	135.39	11.28
1967	14.88	13.44	14.88	13.09	14.88	14.40	14.88	14.20	11.38	4.46	4.32	13.91	148.72	12.39
1968	14.88	13.44	10.97	11.43	14.88	14.40	14.88	14.14	8.60	9.24	10.03	14.88	151.76	12.65
1969	14.88	13.44	14.88	11.06	14.88	14.40	14.88	7.11	5.96	4.46	7.77	4.46	128.19	10.68
1970	14.88	13.44	13.85	14.40	14.78	14.40	14.88	14.88	10.62	14.88	12.13	14.88	168.03	14.00
1971	14.88	13.44	14.88	14.40	14.65	14.40	14.88	14.88	11.27	14.88	14.40	14.88	171.85	14.32
1972	14.88	13.44	14.88	14.40	11.34	14.40	14.88	12.70	4.32	4.46	4.32	14.88	138.90	11.58
1973	14.88	13.44	14.88	14.40	14.88	9.20	4.46	4.77	4.32	4.46	4.40	11.04	115.14	9.60
1974	14.35	13.44	5.57	4.84	4.95	6.06	6.42	8.00	8.98	7.13	4.32	6.60	90.67	7.56
1975	6.06	4.03	4.46	4.32	4.46	4.32	4.46	5.49	7.53	8.99	11.17	13.08	78.39	6.53
1976	14.62	13.44	13.86	9.45	4.46	4.32	3.86	3.94	4.10	8.74	10.83	13.18	104.80	8.73
1977	14.88	13.44	13.48	7.85	11.99	12.69	14.08	14.73	10.89	4.46	9.54	14.88	142.92	11.91
TOTAL	375.17	355.98	347.36	290.15	321.09	333.89	343.72	317.99	222.86	269.97	257.03	356.23	3791.46	315.95
MEAN	13.40	12.71	12.41	10.36	11.47	11.92	12.28	11.36	7.96	9.64	9.18	12.72	135.41	11.28

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	115.45	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	147.90	60.87	55.47	1416.59	118.05
1951	106.40	123.20	141.69	81.46	92.84	149.56	182.76	123.88	53.67	146.51	107.43	132.17	1441.56	120.13
1952	55.50	104.28	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1506.68	125.56
1953	133.24	110.72	55.87	55.02	58.36	59.15	52.40	51.44	31.69	112.15	129.72	129.22	978.96	81.58
1954	111.65	126.66	50.23	38.72	166.47	161.56	175.55	151.16	153.91	109.26	149.82	102.14	1497.12	124.76
1955	80.99	104.28	115.45	111.73	115.45	105.28	185.51	118.46	41.26	139.42	145.01	192.09	1454.94	121.25
1956	156.14	152.24	147.72	96.05	55.90	54.84	56.67	56.38	54.02	86.31	123.07	132.53	1171.89	97.66
1957	141.82	106.74	149.39	67.84	56.04	70.97	90.77	75.09	53.84	130.07	45.76	127.86	1116.18	93.01
1958	115.45	125.12	117.18	111.73	115.45	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1485.82	123.82
1959	146.34	152.50	151.01	142.89	150.45	135.84	164.82	123.82	74.32	124.72	44.70	127.08	1538.51	128.21
1960	80.00	105.86	115.45	111.73	96.69	105.76	115.98	115.45	74.37	115.45	111.73	115.45	1263.94	105.33
1961	115.45	104.28	61.49	37.97	138.31	145.31	188.37	151.46	157.54	59.56	64.04	119.15	1342.93	111.91
1962	115.45	131.18	112.37	67.56	116.42	144.45	186.17	150.45	82.69	122.43	135.35	117.04	1481.53	123.46
1963	115.45	104.28	106.49	111.73	123.95	159.93	186.60	153.46	77.43	134.54	36.91	117.76	1428.53	119.04
1964	115.45	104.28	115.45	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1517.41	126.45
1965	155.49	110.77	142.89	128.50	50.24	140.94	147.59	134.46	72.66	50.79	41.91	56.81	1233.05	102.75
1966	115.45	132.58	80.18	77.55	165.46	166.56	196.82	151.16	55.15	43.77	36.84	116.72	1338.24	111.52
1967	115.45	104.28	142.05	105.40	164.46	163.56	150.50	150.62	132.39	52.20	42.84	115.76	1439.54	119.96
1968	115.45	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1552.39	129.37
1969	140.66	127.89	149.39	101.98	160.47	161.56	180.18	88.00	73.77	49.89	75.87	38.53	1348.19	112.35
1970	117.27	104.28	107.49	111.73	114.69	114.84	184.23	150.74	92.94	149.06	102.06	118.43	1467.77	122.31
1971	115.45	123.23	124.26	112.45	113.69	130.07	163.88	133.54	90.54	116.64	111.73	115.45	1450.94	120.91
1972	115.45	134.08	148.34	136.47	104.45	149.84	184.70	148.68	53.93	50.46	40.95	122.83	1390.19	115.85
1973	148.04	153.26	166.90	160.07	158.36	108.60	56.25	60.17	54.44	58.58	56.62	123.71	1305.00	108.75
1974	148.04	159.36	67.51	59.98	61.23	74.98	79.54	99.09	111.25	88.30	54.03	82.64	1085.97	90.50
1975	75.05	50.26	56.53	56.01	59.80	58.04	58.47	69.52	93.29	111.28	126.71	132.71	947.66	78.97
1976	141.80	133.78	149.03	111.81	56.05	56.97	53.49	55.44	57.69	115.15	120.92	124.94	1177.08	98.09
1977	147.92	152.46	147.73	94.00	143.18	139.79	144.09	148.88	116.28	44.61	79.89	115.45	1474.29	122.86
TOTAL	3356.39	3417.05	3248.41	2680.03	3121.61	3514.37	4051.18	3366.73	2377.38	2839.78	2591.12	3288.88	37852.94	3154.41
MEAN	119.87	122.04	116.01	95.72	111.49	125.51	144.68	120.24	84.91	101.42	92.54	117.46	1351.89	112.66

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	49.01	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	49.01	4.08
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	33.95	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	33.95	2.83
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	111.59	8.04	34.97	58.24	0.	0.	0.	0.	0.	0.	0.	212.84	17.74
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	60.91	60.91	5.08
1958	126.65	0.	12.20	3.97	84.24	0.	0.	0.	0.	0.	0.	0.	227.07	18.92
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	241.99	18.04	35.97	0.	0.	52.30	23.74	0.	71.63	172.26	89.63	705.55	58.80
1961	47.65	5.59	0.	0.	0.	0.	0.	0.	0.	0.	0.	32.27	85.51	7.13
1962	136.65	0.	0.	0.	16.52	0.	0.	0.	0.	0.	0.	68.61	221.77	18.48
1963	239.65	101.59	0.	35.97	0.	0.	0.	0.	0.	0.	0.	170.29	547.50	45.62
1964	239.65	77.84	7.04	0.	0.	0.	0.	0.	0.	0.	0.	0.	324.52	27.04
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	86.65	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	44.12	130.77	10.90
1967	43.60	41.63	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	85.22	7.10
1968	72.61	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	72.61	6.05
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	148.60	229.59	0.	44.97	0.	0.	0.	0.	0.	0.	0.	76.87	500.03	41.67
1971	217.65	0.	0.	23.20	0.	0.	0.	0.	0.	13.45	9.83	325.63	589.76	49.15
1972	4.22	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	10.48	14.70	1.22
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	276.63	276.63	23.05
TOTAL	1412.58	843.75	45.31	179.07	159.00	0.	52.30	23.74	0.	85.08	182.09	1155.43	4138.35	344.86
MEAN	50.45	30.13	1.62	6.40	5.68	0.	1.87	0.85	0.	3.04	6.50	41.27	147.80	12.32

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	195.00	192.40	191.71	188.54	187.24	183.50	179.05	176.53	175.82	174.20	174.20	173.95	2192.14	182.68
1951	186.46	188.07	184.87	185.68	183.85	182.23	178.86	174.20	173.96	174.49	181.15	185.49	2179.32	181.61
1952	195.00	195.00	192.27	193.10	192.98	191.48	187.74	184.95	182.07	183.52	182.74	180.68	2261.51	188.46
1953	177.38	174.20	173.43	173.07	171.69	170.08	170.00	170.00	170.00	174.20	175.45	178.17	2077.67	173.14
1954	183.47	183.17	185.29	189.63	186.19	182.66	180.69	178.87	175.09	178.21	176.05	187.17	2186.48	182.21
1955	195.00	195.00	195.00	195.00	195.00	195.00	192.44	192.06	193.38	193.30	191.88	188.08	2321.15	193.43
1956	184.17	180.58	176.47	174.20	173.38	173.33	173.38	173.69	174.20	174.20	178.44	181.00	2117.06	176.42
1957	179.12	180.37	175.90	174.20	173.21	174.20	174.20	174.20	173.73	175.99	184.14	195.00	2134.27	177.86
1958	195.00	193.36	195.00	195.00	195.00	193.44	190.62	191.95	190.52	191.41	192.11	192.46	2315.86	192.99
1959	192.02	188.56	184.51	180.96	177.89	178.00	175.53	174.20	174.20	177.61	184.44	188.91	2176.83	181.40
1960	193.33	195.00	195.00	195.00	195.00	194.50	195.00	195.00	195.00	195.00	195.00	195.00	2337.82	194.82
1961	195.00	195.00	195.00	195.00	193.42	191.93	188.63	186.41	183.69	186.29	191.53	195.00	2297.10	191.43
1962	195.00	194.94	193.17	194.08	195.00	194.15	191.01	187.80	187.82	191.12	193.49	195.00	2312.58	192.71
1963	195.00	195.00	195.00	195.00	193.93	190.65	188.72	186.54	186.43	186.85	192.80	195.00	2300.93	191.74
1964	195.00	195.00	195.00	194.01	191.57	187.46	185.45	183.02	181.72	183.15	182.81	184.32	2258.51	188.21
1965	181.03	180.07	175.82	174.20	181.14	179.17	174.20	175.15	174.20	180.35	187.24	195.00	2157.57	179.80
1966	195.00	193.45	193.71	195.00	191.46	187.24	181.65	178.06	180.59	186.07	193.78	195.00	2271.02	189.25
1967	195.00	195.00	193.84	192.11	188.38	184.04	181.35	178.69	174.20	178.28	187.37	195.00	2243.27	186.94
1968	195.00	192.83	192.72	191.59	187.32	183.24	180.04	177.65	176.47	180.46	185.59	190.87	2233.78	186.15
1969	191.59	190.16	186.53	185.65	182.31	179.34	174.20	174.20	174.23	181.68	185.38	193.27	2198.55	183.21
1970	195.00	195.00	195.00	195.00	195.00	193.84	190.78	189.10	188.16	189.09	192.20	195.00	2313.17	192.76
1971	195.00	194.96	194.29	195.00	195.00	193.62	191.46	192.34	193.87	195.00	195.00	195.00	2330.53	194.21
1972	195.00	192.53	189.10	185.74	186.53	182.61	178.23	174.20	173.62	181.42	188.24	195.00	2222.21	185.18
1973	193.91	190.90	186.65	182.40	177.64	174.20	172.94	174.20	172.94	171.56	174.20	181.52	2153.07	179.42
1974	180.83	175.67	174.20	174.20	174.20	174.20	174.20	174.20	174.20	174.20	173.48	174.20	2097.79	174.82
1975	174.20	173.72	173.17	172.14	171.01	171.96	172.68	174.20	174.20	174.20	180.61	183.17	2095.27	174.61
1976	184.48	181.52	177.45	174.20	173.19	170.99	170.00	170.00	170.00	174.20	181.78	187.86	2115.69	176.31
1977	184.93	180.93	176.54	174.20	176.77	180.26	182.79	181.30	178.27	186.73	195.00	195.00	2192.72	182.73
TOTAL	5316.92	5282.40	5236.66	5213.90	5185.32	5137.33	5075.87	5042.92	5022.57	5092.79	5196.12	5291.10	62093.88	5174.49
MEAN	189.89	188.66	187.02	186.21	185.19	183.48	181.28	180.10	179.38	181.89	185.58	188.97	2217.64	184.80

Table 1.8 (11) Summary of Case III Study

Condition of study

(1) H.W.L. El. 195 m

(2) L.W.L. El. 170 m

(3) Firm power 6,000 kW

(4) Installed capacity 25,000 kW

(5) Combination of irrigation and hydropower Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	25.00	25.00	15.23	23.29	11.59	22.17	23.36	18.01	13.10	16.43	6.83	6.00	206.01	17.17
1951	13.55	20.38	20.82	12.05	13.15	21.05	23.47	14.35	6.00	15.91	13.30	18.12	192.15	16.01
1952	8.80	25.00	24.47	13.12	17.75	24.61	25.00	22.78	16.50	19.81	19.46	18.07	235.38	19.61
1953	16.47	13.91	6.00	6.00	6.00	6.00	5.01	4.91	3.13	11.44	14.81	15.08	108.76	9.06
1954	14.43	19.22	7.03	6.00	25.00	23.47	23.16	19.05	18.65	12.70	18.23	13.46	200.38	16.70
1955	13.06	25.00	21.39	25.00	25.00	18.85	25.00	19.51	7.08	23.43	24.83	25.00	253.15	21.10
1956	22.77	22.60	18.02	11.12	6.00	6.00	6.00	6.00	6.02	9.37	14.64	16.66	145.20	12.10
1957	17.98	14.87	18.04	7.79	6.00	7.85	9.85	8.15	6.00	14.38	6.00	25.00	141.92	11.83
1958	25.00	23.64	22.08	20.71	25.00	23.05	25.00	15.51	14.02	21.38	23.49	22.67	261.56	21.80
1959	24.10	25.00	22.21	19.96	18.78	16.87	19.21	13.70	8.34	14.20	6.00	18.74	207.11	17.26
1960	12.90	25.00	23.12	25.00	16.75	18.85	25.00	24.11	13.31	25.00	25.00	25.00	259.05	21.59
1961	25.00	21.07	10.65	6.80	23.62	24.93	25.00	22.79	23.24	8.47	10.22	25.00	226.79	18.90
1962	25.00	25.00	19.13	11.79	24.38	25.00	25.00	23.46	12.91	19.12	23.06	25.00	258.86	21.57
1963	25.00	25.00	18.45	25.00	21.27	25.00	25.00	23.10	11.76	19.84	6.00	25.00	250.41	20.87
1964	25.00	25.00	21.22	13.71	21.45	25.00	20.41	20.86	15.15	13.34	23.88	19.80	244.83	20.40
1965	21.00	15.74	17.18	14.75	6.00	18.51	17.16	14.80	8.26	6.00	6.00	9.16	154.57	12.88
1966	25.00	25.00	13.54	13.72	25.00	25.00	25.00	19.07	7.10	6.00	6.00	25.00	215.43	17.95
1967	25.00	25.00	24.35	18.18	25.00	24.68	20.33	19.08	15.81	6.00	6.00	18.70	228.13	19.01
1968	25.00	25.00	14.75	15.87	25.00	24.50	24.47	19.00	11.94	12.42	13.93	21.13	233.00	19.42
1969	22.72	22.71	22.81	15.36	22.33	21.58	21.00	9.55	8.28	6.00	10.79	6.00	189.13	15.76
1970	25.00	25.00	18.62	25.00	19.87	20.34	25.00	23.75	14.75	22.89	16.85	25.00	262.08	21.84
1971	25.00	23.63	21.38	24.13	19.70	22.99	25.00	21.85	15.66	25.00	25.00	25.00	274.32	22.86
1972	25.00	25.00	23.78	21.13	15.24	21.82	23.63	17.07	6.00	6.00	6.00	21.71	212.38	17.70
1973	25.00	25.00	25.00	23.29	20.06	12.78	6.00	6.41	6.00	6.00	6.11	14.84	176.50	14.71
1974	19.29	21.38	7.48	6.73	6.65	8.41	8.63	10.76	12.48	9.59	6.00	8.88	126.26	10.52
1975	8.15	6.00	6.00	6.00	6.00	6.00	6.00	7.38	10.46	12.08	15.52	17.59	107.17	8.93
1976	19.66	20.15	18.63	13.13	6.00	6.00	5.19	5.29	5.69	11.75	15.04	17.71	144.23	12.02
1977	21.70	22.92	18.12	10.90	16.12	17.62	18.93	19.80	15.13	6.00	13.25	25.00	205.49	17.12
TOTAL	581.55	618.21	499.51	435.53	474.68	518.94	531.82	450.11	312.77	380.57	382.24	534.31	5720.25	476.69
MEAN	20.77	22.08	17.84	15.55	16.95	18.53	18.99	16.08	11.17	13.59	13.65	19.08	204.29	17.02

★ MORAGAHAKANDA POWER STATION
★ MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	18.60	16.80	11.33	16.77	8.62	15.97	17.38	13.40	9.43	12.22	4.92	4.46	149.90	12.49
1951	10.08	13.70	15.49	8.68	9.78	15.16	17.46	10.68	4.32	11.84	9.58	13.48	140.23	11.69
1952	6.55	16.80	18.20	9.44	13.21	17.72	18.60	16.95	11.88	14.74	14.01	13.44	171.55	14.30
1953	12.25	9.35	4.46	4.32	4.46	4.32	3.73	3.65	2.25	8.51	10.66	11.22	79.19	6.60
1954	10.73	12.91	5.23	4.32	18.60	16.90	17.23	14.17	13.43	9.45	13.13	10.01	146.11	12.18
1955	9.71	16.80	15.92	18.00	18.60	13.57	18.60	14.52	5.10	17.43	17.88	18.60	184.73	15.39
1956	16.94	15.18	13.41	8.01	4.46	4.32	4.46	4.46	4.33	6.97	10.54	12.40	105.50	8.79
1957	13.38	9.99	13.43	5.61	4.46	5.65	7.33	6.06	4.32	10.70	4.32	18.60	103.85	8.65
1958	18.60	15.89	16.43	14.91	18.60	16.60	18.60	11.54	10.09	15.90	16.91	16.87	190.95	15.91
1959	17.93	16.80	16.52	14.37	13.97	12.15	14.29	10.19	6.00	10.56	4.32	13.95	151.06	12.59
1960	9.60	16.80	17.20	18.00	12.46	13.57	18.60	17.94	9.59	18.60	18.00	18.60	188.96	15.75
1961	18.60	14.16	7.93	4.89	17.57	17.95	18.60	16.96	16.74	6.31	7.36	18.60	165.65	13.80
1962	18.60	16.80	14.24	8.49	18.14	18.00	18.60	17.46	9.30	14.23	16.60	18.60	189.05	15.75
1963	18.60	16.80	13.72	18.00	15.82	18.00	18.60	17.18	8.47	14.76	4.32	18.60	182.88	15.24
1964	18.60	16.80	15.79	9.87	15.96	18.00	15.19	15.52	10.91	9.93	17.19	14.73	178.49	14.87
1965	15.62	10.58	12.78	10.62	4.46	13.33	12.77	11.01	5.95	4.46	4.32	6.82	112.73	9.39
1966	18.60	16.80	10.07	9.88	18.60	18.00	18.60	14.19	5.11	4.46	4.32	18.60	157.23	13.10
1967	18.60	16.80	18.12	13.09	18.60	17.77	15.12	14.20	11.38	4.46	4.32	13.91	166.38	13.86
1968	18.60	16.80	10.97	11.43	18.60	17.64	18.20	14.14	8.60	9.24	10.03	15.72	169.96	14.16
1969	16.90	15.26	16.97	11.06	16.61	15.53	15.63	7.11	5.96	4.46	7.77	4.46	137.74	11.48
1970	18.60	16.80	13.85	18.00	14.78	14.65	18.60	17.67	10.62	17.03	12.13	18.60	191.34	15.94
1971	18.60	15.88	15.91	17.37	14.65	16.56	18.60	16.25	11.27	18.60	18.00	18.60	200.29	16.69
1972	18.60	16.80	17.69	15.21	11.34	15.71	17.58	12.70	4.32	4.46	4.32	16.15	154.89	12.91
1973	18.60	16.80	18.60	16.77	14.93	9.20	4.46	4.77	4.32	4.46	4.40	11.04	128.36	10.70
1974	14.35	14.37	5.57	4.84	4.95	6.06	6.42	8.00	8.98	7.13	4.32	6.60	91.59	7.63
1975	6.06	4.03	4.46	4.32	4.46	4.32	4.46	5.49	7.53	8.99	11.17	13.08	78.39	6.53
1976	14.62	13.54	13.86	9.45	4.46	4.32	3.86	3.94	4.10	8.74	10.83	13.18	104.90	8.74
1977	16.14	15.40	13.48	7.85	11.99	12.69	14.08	14.73	10.89	4.46	9.54	18.60	149.87	12.49
TOTAL	432.67	415.44	371.64	313.58	353.16	373.64	395.67	334.88	225.19	283.15	275.21	397.53	4171.77	347.65
MEAN	15.45	14.84	13.27	11.20	12.61	13.34	14.13	11.96	8.04	10.11	9.83	14.20	148.99	12.42

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	144.32	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	147.90	60.87	55.47	1445.46	120.45
1951	106.40	123.20	141.69	81.46	92.84	149.56	182.76	123.88	53.67	146.51	107.43	132.17	1441.56	120.13
1952	55.50	130.35	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1532.75	127.73
1953	133.24	110.72	55.87	55.02	58.36	59.15	52.40	51.44	31.69	112.15	129.72	129.22	978.96	81.58
1954	111.65	126.66	50.23	38.72	166.47	161.56	175.55	151.16	153.91	109.26	149.82	102.14	1497.12	124.76
1955	80.99	130.35	123.49	139.66	144.32	105.28	185.51	118.46	41.26	139.42	145.01	192.09	1545.85	128.82
1956	156.14	152.24	147.72	96.05	55.90	54.84	56.67	56.38	54.02	86.31	123.07	132.53	1171.89	97.66
1957	141.82	106.74	149.39	67.84	56.04	70.97	90.77	75.09	53.84	130.07	45.76	159.83	1148.14	95.68
1958	144.32	125.12	129.38	115.70	144.32	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1559.72	129.98
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	123.82	74.32	124.72	44.70	127.08	1538.51	128.21
1960	80.00	132.33	133.49	139.66	96.69	105.76	144.97	139.19	74.37	144.32	139.66	144.32	1474.77	122.90
1961	144.32	109.87	61.49	37.97	138.31	145.31	188.37	151.46	157.54	59.56	64.04	148.94	1407.17	117.26
1962	144.32	131.18	112.37	67.56	141.91	144.45	186.17	150.45	82.69	122.43	135.35	146.29	1565.15	130.43
1963	144.32	130.35	106.49	139.66	123.95	159.93	186.60	153.46	77.43	134.54	36.91	147.20	1540.84	128.40
1964	144.32	130.35	122.49	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1579.38	131.62
1965	155.49	110.77	142.89	128.50	50.24	140.94	147.59	134.46	72.66	50.79	41.91	56.81	1233.05	102.75
1966	144.32	132.58	80.18	77.55	165.46	166.56	196.82	151.16	55.15	43.77	36.84	145.90	1396.29	116.36
1967	144.32	130.35	142.05	105.40	164.46	163.56	150.50	150.62	132.39	52.20	42.84	115.76	1494.47	124.54
1968	144.32	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1581.26	131.77
1969	140.66	127.89	149.39	101.98	160.47	161.56	180.18	88.00	73.77	49.89	75.87	38.53	1348.19	112.35
1970	146.59	130.35	107.49	139.66	114.69	114.84	184.23	150.74	92.94	149.06	102.06	148.03	1580.69	131.72
1971	144.32	123.23	124.26	135.64	113.69	130.07	163.88	133.54	90.54	145.80	139.66	144.32	1588.96	132.41
1972	144.32	134.08	148.34	136.47	104.45	149.84	184.70	148.68	53.93	50.46	40.95	133.30	1429.53	119.13
1973	148.04	153.26	166.90	160.07	158.36	108.60	56.25	60.17	54.44	58.58	56.62	123.71	1305.00	108.75
1974	148.04	159.36	67.51	59.98	61.23	74.98	79.54	99.09	111.25	88.30	54.03	82.64	1085.97	90.50
1975	75.05	50.26	56.53	56.01	59.80	58.04	58.47	69.52	93.29	111.28	126.71	132.71	947.66	78.97
1976	141.80	133.78	149.03	111.81	56.05	56.97	53.49	55.44	57.69	115.15	120.92	124.94	1177.08	98.09
1977	147.92	152.46	147.73	94.00	143.18	139.79	144.09	148.88	116.28	44.61	79.89	144.32	1503.15	125.26
TOTAL	3703.21	3605.52	3293.72	2818.93	3204.83	3514.37	4080.17	3390.47	2377.38	2897.80	2646.98	3565.19	39098.58	3258.22
MEAN	132.26	128.77	117.63	100.68	114.46	125.51	145.72	121.09	84.91	103.49	94.54	127.33	1396.38	116.36

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	45.79	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	45.79	3.82
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	26.52	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	26.52	2.21
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	85.52	0.	7.04	29.38	0.	0.	0.	0.	0.	0.	0.	121.94	10.16
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	28.94	28.94	2.41
1958	97.79	0.	0.	0.	55.38	0.	0.	0.	0.	0.	0.	0.	153.16	12.76
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	215.52	0.	8.04	0.	0.	23.31	0.	0.	42.77	144.32	60.76	494.73	41.23
1961	18.79	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.49	21.27	1.77
1962	107.79	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	59.62	167.41	13.95
1963	210.79	75.52	0.	8.04	0.	0.	0.	0.	0.	0.	0.	140.85	435.19	36.27
1964	210.79	66.52	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	277.30	23.11
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	57.79	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	14.94	72.73	6.06
1967	43.60	34.52	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	78.12	6.51
1968	47.79	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	47.79	3.98
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	119.28	203.52	0.	17.04	0.	0.	0.	0.	0.	0.	0.	56.59	396.43	33.04
1971	188.79	0.	0.	0.	0.	0.	0.	0.	0.	13.45	9.83	296.76	508.83	42.40
1972	4.22	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.22	0.35
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	247.76	247.76	20.65
TOTAL	1153.17	707.63	0.	40.17	84.76	0.	23.31	0.	0.	56.21	154.16	908.72	3128.13	260.68
MEAN	41.18	25.27	0.	1.43	3.03	0.	0.83	0.	0.	2.01	5.51	32.45	111.72	9.31

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	195.00	192.40	191.71	188.54	187.24	183.50	179.05	176.53	175.82	174.20	174.20	173.95	2192.14	182.68
1951	186.46	188.07	184.87	185.68	183.85	182.23	178.86	174.20	173.96	174.49	181.15	185.49	2179.32	181.61
1952	195.00	195.00	192.27	193.10	192.98	191.48	187.74	184.95	182.07	183.52	182.74	180.68	2261.51	188.46
1953	177.38	174.20	173.43	173.07	171.69	170.08	170.00	170.00	170.00	174.20	175.45	178.17	2077.67	173.14
1954	183.47	183.17	185.29	189.63	186.19	182.66	180.69	178.87	175.09	178.21	176.05	187.17	2186.48	182.21
1955	195.00	195.00	195.00	195.00	195.00	195.00	192.44	192.06	193.38	193.30	191.88	188.08	2321.15	193.43
1956	184.17	180.58	176.47	174.20	173.38	173.33	173.38	173.69	174.20	174.20	178.44	181.00	2117.06	176.42
1957	179.12	180.37	175.90	174.20	173.21	174.20	174.20	174.20	173.73	175.99	184.14	195.00	2134.27	177.86
1958	195.00	193.36	195.00	195.00	195.00	193.44	190.62	191.95	190.52	191.41	192.11	192.46	2315.86	192.99
1959	192.02	188.56	184.51	180.96	177.89	178.00	175.53	174.20	174.20	177.61	184.44	188.91	2176.83	181.40
1960	193.33	195.00	195.00	195.00	195.00	194.50	195.00	195.00	195.00	195.00	195.00	195.00	2337.82	194.82
1961	195.00	195.00	195.00	195.00	193.42	191.93	188.63	186.61	183.69	186.29	191.53	195.00	2297.10	191.43
1962	195.00	194.94	193.17	194.08	195.00	194.15	191.01	187.80	187.82	191.12	193.49	195.00	2312.58	192.71
1963	195.00	195.00	195.00	195.00	193.93	190.65	188.72	186.54	186.43	186.85	192.80	195.00	2300.93	191.74
1964	195.00	195.00	195.00	194.01	191.57	187.46	185.45	183.02	181.72	183.15	182.81	184.32	2258.51	188.21
1965	181.03	180.07	175.82	174.20	181.14	179.17	174.20	175.15	174.20	180.35	187.24	195.00	2157.57	179.80
1966	195.00	193.45	193.71	195.00	191.46	187.24	181.65	178.06	180.59	186.07	193.78	195.00	2271.02	189.25
1967	195.00	195.00	193.84	192.11	188.38	184.04	181.35	178.69	174.20	178.28	187.37	195.00	2243.27	186.94
1968	195.00	192.83	192.72	191.59	187.32	183.24	180.04	177.65	176.47	180.46	185.59	190.87	2233.78	186.15
1969	191.59	190.16	186.53	185.45	182.31	179.34	174.20	174.20	174.23	181.68	185.38	193.27	2198.55	183.21
1970	195.00	195.00	195.00	195.00	195.00	193.84	190.78	189.10	188.16	189.09	192.20	195.00	2313.17	192.76
1971	195.00	194.96	194.29	195.00	195.00	193.62	191.46	192.34	193.87	195.00	195.00	195.00	2330.53	194.21
1972	195.00	192.53	189.10	185.74	186.53	182.61	178.23	174.20	173.62	181.42	188.24	195.00	2222.21	185.18
1973	193.91	190.90	186.65	182.40	177.64	174.20	172.94	174.20	172.94	171.56	174.20	181.52	2153.07	179.42
1974	180.83	175.67	174.20	174.20	174.20	174.20	174.20	174.20	174.20	174.20	173.48	174.20	2097.79	174.82
1975	174.20	173.72	173.17	172.14	171.01	171.96	172.68	174.20	174.20	174.20	180.61	183.17	2095.27	174.61
1976	184.48	181.52	177.45	174.20	173.19	170.99	170.00	170.00	170.00	174.20	181.78	187.86	2115.69	176.31
1977	184.93	180.93	176.54	174.20	176.77	180.26	182.79	181.30	178.27	186.73	195.00	195.00	2192.72	182.73
TOTAL	5316.92	5282.40	5236.66	5213.90	5185.32	5137.33	5075.87	5042.92	5022.57	5092.79	5196.12	5291.10	62093.88	5174.49
MEAN	189.89	188.66	187.02	186.21	185.19	183.48	181.28	180.10	179.38	181.89	185.58	188.97	2217.64	184.80

Table 1.8 (12) Summary of Case III Study

Condition of study

(1) H.W.L El. 195 m

(2) L.W.L. El. 170 m

(3) Firm power 6,000 kW

(4) Installed capacity 30,000 kW

(5) Combination of irrigation and hydropower
Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	30.00	25.41	15.23	23.29	11.59	22.17	23.36	18.01	13.10	16.43	6.83	6.00	211.42	17.62
1951	13.55	20.38	20.82	12.05	13.15	21.05	23.47	14.35	6.00	15.91	13.30	18.12	192.15	16.01
1952	8.80	30.00	24.47	13.12	17.75	24.61	28.49	22.78	16.50	19.81	19.46	18.07	243.87	20.32
1953	16.47	13.91	6.00	6.00	6.00	6.00	5.01	4.91	3.13	11.44	14.81	15.08	108.76	9.06
1954	14.43	19.22	7.03	6.00	25.20	23.47	23.16	19.05	18.65	12.70	18.23	13.46	200.58	16.71
1955	13.06	30.00	21.39	26.26	30.00	18.85	30.00	19.51	7.08	23.43	24.83	30.00	274.42	22.87
1956	22.77	22.60	18.02	11.12	6.00	6.00	6.00	6.00	6.02	9.37	14.64	16.66	145.20	12.10
1957	17.98	14.87	18.04	7.79	6.00	7.85	9.85	8.15	6.00	14.38	6.00	29.53	146.45	12.20
1958	30.00	23.64	22.08	20.71	30.00	23.05	29.58	15.51	14.02	21.38	23.49	22.67	276.14	23.01
1959	24.10	26.79	22.21	19.96	18.78	16.87	19.21	13.70	8.34	14.20	6.00	18.74	208.90	17.41
1960	12.90	30.00	23.12	26.44	16.75	18.85	29.02	24.11	13.31	30.00	30.00	30.00	284.51	23.71
1961	28.25	21.07	10.65	6.90	23.42	24.93	29.88	22.79	23.24	8.47	10.22	25.42	235.35	19.61
1962	30.00	25.15	19.13	11.79	24.38	25.66	30.00	23.46	12.91	19.12	23.06	30.00	274.67	22.89
1963	30.00	30.00	18.45	26.44	21.27	27.23	29.26	23.10	11.76	19.84	6.00	30.00	273.34	22.78
1964	30.00	30.00	21.22	13.71	21.45	26.74	20.41	20.86	15.15	13.34	23.88	19.80	256.57	21.38
1965	21.00	15.74	17.18	14.75	6.00	18.51	17.16	14.80	8.26	6.00	6.00	9.16	154.57	12.88
1966	30.00	25.08	13.54	13.72	27.75	26.81	27.67	19.07	7.10	6.00	6.00	27.56	230.29	19.19
1967	30.00	30.00	24.35	18.18	26.07	24.68	20.33	19.08	15.81	6.00	6.00	18.70	239.20	19.93
1968	30.00	26.23	14.75	15.87	26.77	24.50	24.47	19.00	11.94	12.42	13.93	21.13	241.00	20.08
1969	22.72	22.71	22.81	15.36	22.33	21.58	21.00	9.55	8.28	6.00	10.79	6.00	189.13	15.76
1970	30.00	30.00	18.62	28.05	19.87	20.34	30.00	23.75	14.75	22.89	16.85	30.00	285.13	23.76
1971	30.00	23.63	21.38	24.13	19.70	22.99	27.14	21.85	15.66	27.70	27.39	30.00	291.54	24.30
1972	26.00	25.15	23.78	21.13	15.24	21.82	23.63	17.07	6.00	6.00	6.00	21.71	213.52	17.79
1973	25.40	28.03	25.70	23.29	20.06	12.78	6.00	6.41	6.00	6.00	6.11	14.84	180.62	15.05
1974	19.29	21.38	7.48	6.73	6.65	8.41	8.63	10.76	12.48	9.59	6.00	8.88	126.26	10.52
1975	8.15	6.00	6.00	6.00	6.00	6.00	6.00	7.38	10.46	12.08	15.52	17.59	107.17	8.93
1976	19.66	20.15	18.63	13.13	6.00	6.00	5.19	5.29	5.69	11.75	15.04	17.71	144.23	12.02
1977	21.70	22.92	18.12	10.90	16.12	17.62	18.93	19.80	15.13	6.00	13.25	30.00	210.49	17.54
TOTAL	636.20	660.04	500.22	442.72	490.47	525.38	572.85	450.11	312.77	388.27	389.63	576.81	5945.47	495.46
MEAN	22.72	23.57	17.86	15.81	17.52	18.76	20.46	16.08	11.17	13.87	13.92	20.60	212.34	17.69

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	22.32	17.08	11.33	16.77	8.62	15.97	17.38	13.40	9.43	12.22	4.92	4.46	153.90	12.82
1951	10.08	13.70	15.49	8.68	9.78	15.16	17.46	10.68	4.32	11.84	9.58	13.48	140.23	11.69
1952	6.55	20.16	18.20	9.44	13.21	17.72	21.20	16.95	11.88	14.74	14.01	13.44	177.51	14.79
1953	12.25	9.35	4.46	4.32	4.46	4.32	3.73	3.65	2.25	8.51	10.66	11.22	79.19	6.60
1954	10.73	12.91	5.23	4.32	18.75	16.90	17.23	14.17	13.43	9.45	13.13	10.01	146.26	12.19
1955	9.71	20.16	15.92	18.91	22.32	13.57	22.32	14.52	5.10	17.43	17.88	22.32	200.16	16.68
1956	16.94	15.18	13.41	8.01	4.46	4.32	4.46	4.46	4.33	6.97	10.54	12.40	105.50	8.79
1957	13.38	9.99	13.43	5.61	4.46	5.65	7.33	6.06	4.32	10.70	4.32	21.97	107.22	8.94
1958	22.32	15.89	16.43	14.91	22.32	16.60	22.01	11.54	10.09	15.90	16.91	16.87	201.79	16.82
1959	17.93	18.00	16.52	14.37	13.97	12.15	14.29	10.19	6.00	10.56	4.32	13.95	152.26	12.69
1960	9.60	20.16	17.20	19.04	12.46	13.57	21.59	17.94	9.59	22.32	21.60	22.32	207.39	17.28
1961	21.02	14.16	7.93	4.89	17.57	17.95	22.23	16.96	16.74	6.31	7.36	18.91	172.02	14.33
1962	22.32	16.90	14.24	8.49	18.14	18.47	22.32	17.46	9.30	14.23	16.60	22.32	200.78	16.73
1963	22.32	20.16	13.72	19.04	15.82	19.61	21.77	17.18	8.47	14.76	4.32	22.32	199.49	16.62
1964	22.32	20.16	15.79	9.87	15.96	19.25	15.19	15.52	10.91	9.93	17.19	14.73	186.82	15.57
1965	15.62	10.58	12.78	10.62	4.46	13.33	12.77	11.01	5.95	4.46	4.32	6.82	112.73	9.39
1966	22.32	16.85	10.07	9.88	20.65	19.30	20.58	14.19	5.11	4.46	4.32	20.51	168.24	14.02
1967	22.32	20.16	18.12	13.09	19.40	17.77	15.12	14.20	11.38	4.46	4.32	13.91	174.25	14.52
1968	22.32	17.63	10.97	11.43	19.91	17.64	18.20	14.14	8.60	9.24	10.03	15.72	175.83	14.65
1969	16.90	15.26	16.97	11.06	16.61	15.53	15.63	7.11	5.96	4.46	7.77	4.46	137.74	11.48
1970	22.32	20.16	13.85	20.20	14.78	14.65	22.32	17.67	10.62	17.03	12.13	22.32	208.05	17.34
1971	22.32	15.88	15.91	17.37	14.65	16.56	20.19	16.25	11.27	20.61	19.72	22.32	213.04	17.75
1972	19.35	16.90	17.69	15.21	11.34	15.71	17.58	12.70	4.32	4.46	4.32	16.15	155.73	12.98
1973	18.89	18.83	19.12	16.77	14.93	9.20	4.46	4.77	4.32	4.46	4.40	11.04	131.21	10.93
1974	14.35	14.37	5.57	4.84	4.95	6.06	6.42	8.00	8.98	7.13	4.32	6.60	91.59	7.63
1975	6.06	4.03	4.46	4.32	4.46	4.32	4.46	5.49	7.53	8.99	11.17	13.08	78.39	6.53
1976	14.62	13.54	13.86	9.45	4.46	4.32	3.86	3.94	4.10	8.74	10.83	13.18	104.90	8.74
1977	16.14	15.40	13.48	7.85	11.99	12.69	14.08	14.73	10.89	4.46	9.54	22.32	153.59	12.80
TOTAL	473.33	443.55	372.16	318.76	364.91	378.28	426.20	334.88	225.19	288.87	280.53	429.15	4335.82	361.32
MEAN	16.90	15.84	13.29	11.38	13.03	13.51	15.22	11.96	8.04	10.32	10.02	15.33	154.85	12.90

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	173.18	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	147.90	60.87	55.47	1474.32	122.86
1951	106.40	123.20	141.69	81.46	92.84	149.56	182.76	123.88	53.67	146.51	107.43	132.17	1441.56	120.13
1952	55.50	156.42	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1558.82	129.90
1953	133.24	110.72	55.87	55.02	58.36	59.15	52.40	51.44	31.69	112.15	129.72	129.22	978.96	81.58
1954	111.65	126.66	50.23	38.72	166.47	161.56	175.55	151.16	153.91	109.26	149.82	102.14	1497.12	124.76
1955	80.99	156.42	123.49	146.70	173.18	105.28	185.51	118.46	41.26	139.42	145.01	192.09	1607.82	133.99
1956	156.14	152.24	147.72	96.05	55.90	54.84	56.67	56.38	54.02	86.31	123.07	132.53	1171.89	97.66
1957	141.82	106.74	149.39	67.84	56.04	70.97	90.77	75.09	53.84	130.07	45.76	188.77	1177.09	98.09
1958	173.18	125.12	129.38	115.70	173.18	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1617.45	134.79
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	123.82	74.32	124.72	44.70	127.08	1538.51	128.21
1960	80.00	158.80	133.49	147.70	96.69	105.76	168.28	139.19	74.37	173.18	167.59	173.18	1618.24	134.85
1961	163.10	109.87	61.49	37.97	138.31	145.31	188.37	151.46	157.54	59.56	64.04	151.42	1428.44	119.04
1962	173.18	131.18	112.37	67.56	141.91	144.45	186.17	150.45	82.69	122.43	135.35	175.55	1623.27	135.27
1963	173.18	156.42	106.49	147.70	123.95	159.93	186.60	153.46	77.43	134.54	36.91	176.64	1633.26	136.10
1964	173.18	156.42	122.49	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1634.32	136.19
1965	155.49	110.77	142.89	128.50	50.24	140.94	147.59	134.46	72.66	50.79	41.91	56.81	1233.05	102.75
1966	173.18	132.58	80.18	77.55	165.46	166.56	196.82	151.16	55.15	43.77	36.84	160.84	1440.09	120.01
1967	173.18	156.42	142.05	105.40	164.46	163.56	150.50	150.62	132.39	52.20	42.84	115.76	1549.40	129.12
1968	173.18	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1610.12	134.18
1969	140.66	127.89	149.39	101.98	160.47	161.56	180.18	88.00	73.77	49.89	75.87	38.53	1348.19	112.35
1970	175.90	156.42	107.49	156.70	114.69	114.84	184.23	150.74	92.94	149.06	102.06	177.64	1682.73	140.23
1971	173.18	123.23	124.26	135.64	113.69	130.07	163.88	133.54	90.54	161.55	152.99	173.18	1675.76	139.65
1972	150.10	134.08	148.34	136.47	104.45	149.84	184.70	148.68	53.93	50.46	40.95	133.30	1435.32	119.61
1973	148.04	153.26	166.90	160.07	158.36	108.60	56.25	60.17	54.44	58.58	56.62	123.71	1305.00	108.75
1974	148.04	159.36	67.51	59.98	61.23	74.98	79.54	99.09	111.25	88.30	54.03	82.64	1085.97	90.50
1975	75.05	50.26	56.53	56.01	59.80	58.04	58.47	69.52	93.29	111.28	126.71	132.71	947.66	78.97
1976	141.80	133.78	149.03	111.81	56.05	56.97	53.49	55.44	57.69	115.15	120.92	124.94	1177.08	98.09
1977	147.92	152.46	147.73	94.00	143.18	139.79	144.09	148.88	116.28	44.61	79.89	173.18	1532.02	127.67
TOTAL	4016.87	3788.41	3293.72	2859.10	3262.55	3514.37	4103.48	3390.47	2377.38	2942.42	2688.24	3786.46	40023.47	3335.29
MEAN	143.46	135.30	117.63	102.11	116.52	125.51	146.55	121.09	84.91	105.09	96.01	135.23	1429.41	119.12

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	16.92	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	16.92	1.41
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.45	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.45	0.04
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	59.45	0.	0.	0.52	0.	0.	0.	0.	0.	0.	0.	59.96	5.00
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	68.92	0.	0.	0.	26.52	0.	0.	0.	0.	0.	0.	0.	95.44	7.95
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	189.05	0.	0.	0.	0.	0.	0.	0.	13.90	116.39	31.90	351.25	29.27
1961	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1962	78.92	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	30.36	109.29	9.11
1963	181.92	49.45	0.	0.	0.	0.	0.	0.	0.	0.	0.	111.40	342.78	28.56
1964	181.92	40.45	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	222.37	18.53
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	28.92	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	28.92	2.41
1967	14.92	8.45	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	23.37	1.95
1968	18.92	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	18.92	1.58
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	89.96	177.45	0.	0.	0.	0.	0.	0.	0.	0.	0.	26.98	294.39	24.53
1971	159.92	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	267.90	427.82	35.65
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	218.90	218.90	18.24
TOTAL	841.27	524.74	0.	0.	27.03	0.	0.	0.	0.	13.90	116.39	687.45	2210.79	184.23
MEAN	30.05	18.74	0.	0.	0.97	0.	0.	0.	0.	0.50	4.16	24.55	78.96	6.58

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	195.00	192.40	191.71	188.54	187.24	183.50	179.05	176.53	175.82	174.20	174.20	173.95	2192.14	182.68
1951	186.46	188.07	184.87	185.68	183.85	182.23	178.86	174.20	173.96	174.49	181.15	185.49	2179.32	181.61
1952	195.00	195.00	192.27	193.10	192.98	191.48	187.74	184.95	182.07	183.52	182.74	180.68	2261.51	188.46
1953	177.38	174.20	173.43	173.07	171.69	170.08	170.00	170.00	170.00	174.20	175.45	178.17	2077.67	173.14
1954	183.47	183.17	185.29	189.63	186.19	182.66	180.69	178.87	175.09	178.21	176.05	187.17	2186.48	182.21
1955	195.00	195.00	195.00	195.00	195.00	195.00	192.44	192.06	193.38	193.30	191.88	188.08	2321.15	193.43
1956	184.17	180.58	176.47	174.20	173.38	173.33	173.38	173.69	174.20	174.20	178.44	181.00	2117.06	176.42
1957	179.12	180.37	175.90	174.20	173.21	174.20	174.20	174.20	173.73	175.99	184.14	195.00	2134.27	177.86
1958	195.00	193.36	195.00	195.00	195.00	193.44	190.62	191.95	190.52	191.41	192.11	192.46	2315.86	192.99
1959	192.02	188.56	184.51	180.96	177.89	178.00	175.53	174.20	174.20	177.61	184.44	188.91	2176.83	181.40
1960	193.33	195.00	195.00	195.00	195.00	194.50	195.00	195.00	195.00	195.00	195.00	195.00	2337.82	194.82
1961	195.00	195.00	195.00	195.00	193.42	191.93	188.63	186.61	183.69	186.29	191.53	195.00	2297.10	191.43
1962	195.00	194.94	193.17	194.08	195.00	194.15	191.01	187.80	187.82	191.12	193.49	195.00	2312.58	192.71
1963	195.00	195.00	195.00	195.00	193.93	190.65	188.72	186.54	186.43	186.85	192.80	195.00	2300.93	191.74
1964	195.00	195.00	195.00	194.01	191.57	187.46	185.45	183.02	181.72	183.15	182.81	184.32	2258.51	188.21
1965	181.03	180.07	175.82	174.20	181.14	179.17	174.20	175.15	174.20	180.35	187.24	195.00	2157.57	179.80
1966	195.00	193.45	193.71	195.00	191.46	187.24	181.65	178.06	180.59	186.07	193.78	195.00	2271.02	189.25
1967	195.00	195.00	193.84	192.11	188.38	184.04	181.35	178.69	174.20	178.28	187.37	195.00	2243.27	186.94
1968	195.00	192.83	192.72	191.59	187.32	183.24	180.04	177.65	176.47	180.46	185.59	190.87	2233.78	186.15
1969	191.59	190.16	186.53	185.65	182.31	179.34	174.20	174.20	174.23	181.68	185.38	193.27	2198.55	183.21
1970	195.00	195.00	195.00	195.00	195.00	193.84	190.78	189.10	188.16	189.09	192.20	195.00	2313.17	192.76
1971	195.00	194.96	194.29	195.00	195.00	193.62	191.46	192.34	193.87	195.00	195.00	195.00	2330.53	194.21
1972	195.00	192.53	189.10	185.74	186.53	182.61	178.23	174.20	173.62	181.42	188.24	195.00	2222.21	185.18
1973	193.91	190.90	186.65	182.40	177.64	174.20	172.94	174.20	172.94	171.56	174.20	181.52	2153.07	179.42
1974	180.83	175.67	174.20	174.20	174.20	174.20	174.20	174.20	174.20	174.20	173.48	174.20	2097.79	174.82
1975	174.20	173.72	173.17	172.14	171.01	171.96	172.68	174.20	174.20	174.20	180.61	183.17	2095.27	174.61
1976	184.48	181.52	177.45	174.20	173.19	170.99	170.00	170.00	170.00	174.20	181.78	187.86	2115.69	176.31
1977	184.93	180.93	176.54	174.20	176.77	180.26	182.79	181.30	178.27	186.73	195.00	195.00	2192.72	182.73
TOTAL	5316.92	5282.40	5236.66	5213.90	5185.32	5137.33	5075.87	5042.92	5022.57	5092.79	5196.12	5291.10	62093.88	5174.49
MEAN	189.89	188.66	187.02	186.21	185.19	183.48	181.28	180.10	179.38	181.89	185.58	188.97	2217.64	184.80

Table 1.8 (13) Summary of Case III Study

Condition of study

(1) H.W.L. El. 195 m

(2) L.W.L. El. 170 m

(3) Firm power 6,000 kW

(4) Installed capacity 35,000 kW

(5) Combination of irrigation and hydropower
Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	32.93	25.41	15.23	23.29	11.59	22.17	23.36	18.01	13.10	16.43	6.83	6.00	214.36	17.86
1951	13.55	20.38	20.82	12.05	13.15	21.05	23.47	14.35	6.00	15.91	13.30	18.12	192.15	16.01
1952	8.80	30.09	24.47	13.12	17.75	24.61	28.49	22.78	16.50	19.81	19.46	18.07	243.95	20.33
1953	16.47	13.91	6.00	6.00	6.00	6.00	5.01	4.91	3.13	11.44	14.81	15.08	108.76	9.06
1954	14.43	19.22	7.03	6.00	25.20	23.47	23.16	19.05	18.65	12.70	18.23	13.46	200.58	16.71
1955	13.06	35.00	21.39	26.26	30.09	18.85	31.40	19.51	7.08	23.43	24.83	30.30	281.20	23.43
1956	22.77	22.60	18.02	11.12	6.00	6.00	6.00	6.00	6.02	9.37	14.64	16.66	145.20	12.10
1957	17.98	14.87	18.04	7.79	6.00	7.85	9.85	8.15	6.00	14.38	6.00	29.53	146.45	12.20
1958	35.00	23.64	22.08	20.71	34.59	23.05	29.58	15.51	14.02	21.38	23.49	22.67	285.73	23.81
1959	24.10	26.79	22.21	19.96	18.78	16.87	19.21	13.70	8.34	14.20	6.00	18.74	208.90	17.41
1960	12.90	35.00	23.12	26.44	16.75	18.85	29.02	24.11	13.31	32.41	35.00	35.00	301.91	25.16
1961	28.25	21.07	10.65	6.80	23.62	24.93	29.88	22.79	23.24	8.47	10.22	25.42	235.35	19.61
1962	35.00	25.15	19.13	11.79	24.38	25.66	30.85	23.46	12.91	19.12	23.06	35.00	285.52	23.79
1963	35.00	35.00	18.45	26.44	21.27	27.23	29.26	23.10	11.76	19.84	6.00	35.00	288.34	24.03
1964	35.00	35.00	21.22	13.71	21.45	26.74	20.41	20.86	15.15	13.34	23.88	19.80	266.57	22.21
1965	21.00	15.74	17.18	14.75	6.00	18.51	17.16	14.80	8.26	6.00	6.00	9.16	154.57	12.88
1966	35.00	25.08	13.54	13.72	27.75	26.81	27.67	19.07	7.10	6.00	6.00	27.56	235.29	19.61
1967	32.59	31.62	24.35	18.18	26.07	24.68	20.33	19.08	15.81	6.00	6.00	18.70	243.41	20.28
1968	33.28	26.23	14.75	15.87	26.77	24.50	24.47	19.00	11.94	12.42	13.93	21.13	244.28	20.36
1969	22.72	22.71	22.81	15.36	22.33	21.58	21.00	9.55	8.28	6.00	10.79	6.00	189.13	15.76
1970	35.00	35.00	18.62	28.05	19.87	20.34	30.37	23.75	14.75	22.89	16.85	34.56	300.06	25.00
1971	35.00	23.63	21.38	24.13	19.70	22.99	27.14	21.85	15.66	27.70	27.39	35.00	301.54	25.13
1972	26.00	25.15	23.78	21.13	15.24	21.82	23.63	17.07	6.00	6.00	6.00	21.71	213.52	17.79
1973	25.40	28.03	25.70	23.29	20.06	12.78	6.00	6.41	6.00	6.00	6.11	14.84	180.62	15.05
1974	19.29	21.38	7.48	6.73	6.65	8.41	8.63	10.76	12.48	9.59	6.00	8.88	126.26	10.52
1975	8.15	6.00	6.00	6.00	6.00	6.00	6.00	7.38	10.46	12.08	15.52	17.59	107.17	8.93
1976	19.66	20.15	18.63	13.13	6.00	6.00	5.19	5.29	5.69	11.75	15.04	17.71	144.23	12.02
1977	21.70	22.92	18.12	10.90	16.12	17.62	18.93	19.80	15.13	6.00	13.25	35.00	215.49	17.96
TOTAL	679.99	686.75	500.22	442.72	495.15	525.38	575.47	450.11	312.77	390.68	394.63	606.67	6060.54	505.04
MEAN	24.29	24.53	17.86	15.81	17.68	18.76	20.55	16.08	11.17	13.95	14.09	21.67	216.45	18.04

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	24.50	17.08	11.33	16.77	8.62	15.97	17.38	13.40	9.43	12.22	4.92	4.46	156.08	13.01
1951	10.08	13.70	15.49	8.68	9.78	15.16	17.46	10.68	4.32	11.84	9.58	13.48	140.23	11.69
1952	6.55	20.22	18.20	9.44	13.21	17.72	21.20	16.95	11.88	14.74	14.01	13.44	177.57	14.80
1953	12.25	9.35	4.46	4.32	4.46	4.32	3.73	3.65	2.25	8.51	10.66	11.22	79.19	6.60
1954	10.73	12.91	5.23	4.32	18.75	16.90	17.23	14.17	13.43	9.45	13.13	10.01	146.26	12.19
1955	9.71	23.52	15.92	18.91	22.39	13.57	23.36	14.52	5.10	17.43	17.88	22.54	204.85	17.07
1956	16.94	15.18	13.41	8.01	4.46	4.32	4.46	4.46	4.33	6.97	10.54	12.40	105.50	8.79
1957	13.38	9.99	13.43	5.61	4.46	5.65	7.33	6.06	4.32	10.70	4.32	21.97	107.22	8.94
1958	26.04	15.89	16.43	14.91	25.74	16.60	22.01	11.54	10.09	15.90	16.91	16.87	208.93	17.41
1959	17.93	18.00	16.52	14.37	13.97	12.15	14.29	10.19	6.00	10.56	4.32	13.95	152.26	12.69
1960	9.60	23.52	17.20	19.04	12.46	13.57	21.59	17.94	9.59	24.11	25.20	26.04	219.86	18.32
1961	21.02	14.16	7.93	4.89	17.57	17.95	22.23	16.96	16.74	6.31	7.36	18.91	172.02	14.33
1962	26.04	16.90	14.24	8.49	18.14	18.47	22.95	17.46	9.30	14.23	16.60	26.04	208.85	17.40
1963	26.04	23.52	13.72	19.04	15.82	19.61	21.77	17.18	8.47	14.76	4.32	26.04	210.29	17.52
1964	26.04	23.52	15.79	9.87	15.96	19.25	15.19	15.52	10.91	9.93	17.19	14.73	193.90	16.16
1965	15.62	10.58	12.78	10.62	4.46	13.33	12.77	11.01	5.95	4.46	4.32	6.82	112.73	9.39
1966	26.04	16.85	10.07	9.88	20.65	19.30	20.58	14.19	5.11	4.46	4.32	20.51	171.96	14.33
1967	24.24	21.25	18.12	13.09	19.40	17.77	15.12	14.20	11.38	4.46	4.32	13.91	177.27	14.77
1968	24.76	17.63	10.97	11.43	19.91	17.64	18.20	14.14	8.60	9.24	10.03	15.72	178.27	14.86
1969	16.90	15.26	16.97	11.06	16.61	15.53	15.63	7.11	5.96	4.46	7.77	4.46	137.74	11.48
1970	26.04	23.52	13.85	20.20	14.78	14.65	22.60	17.67	10.62	17.03	12.13	25.71	218.80	18.23
1971	26.04	15.88	15.91	17.37	14.65	16.56	20.19	16.25	11.27	20.61	19.72	26.04	220.48	18.37
1972	19.35	16.90	17.69	15.21	11.34	15.71	17.58	12.70	4.32	4.46	4.32	16.15	155.73	12.98
1973	18.89	18.83	19.12	16.77	14.93	9.20	4.46	4.77	4.32	4.46	4.40	11.04	131.21	10.93
1974	14.35	14.37	5.57	4.84	4.95	6.06	6.42	8.00	8.98	7.13	4.32	6.60	91.59	7.63
1975	6.06	4.03	4.46	4.32	4.46	4.32	4.46	5.49	7.53	8.99	11.17	13.08	78.39	6.53
1976	14.62	13.54	13.86	9.45	4.46	4.32	3.86	3.94	4.10	8.74	10.83	13.18	104.90	8.74
1977	16.14	15.40	13.48	7.85	11.99	12.69	14.08	14.73	10.89	4.46	9.54	26.04	157.31	13.11
TOTAL	505.92	461.50	372.16	318.76	368.39	378.28	428.15	334.88	225.19	290.67	284.13	451.36	4419.38	368.28
MEAN	18.07	16.48	13.29	11.38	13.16	13.51	15.29	11.96	8.04	10.38	10.15	16.12	157.84	13.15

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	190.10	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	147.90	60.87	55.47	1491.24	124.27
1951	106.40	123.20	141.69	81.46	92.84	149.56	182.76	123.88	53.67	146.51	107.43	132.17	1441.56	120.13
1952	55.50	156.87	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1559.27	129.94
1953	133.24	110.72	55.87	55.02	58.36	59.15	52.40	51.44	31.69	112.15	129.72	129.22	978.96	81.58
1954	111.65	126.66	50.23	38.72	166.47	161.56	175.55	151.16	153.91	109.26	149.82	102.14	1497.12	124.76
1955	80.99	182.49	123.49	146.70	173.69	105.28	185.51	118.46	41.26	139.42	145.01	192.09	1634.41	136.20
1956	156.14	152.24	147.72	96.05	55.90	54.84	56.67	56.38	54.02	86.31	123.07	132.53	1171.89	97.66
1957	141.82	106.74	149.39	67.84	56.04	70.97	90.77	75.09	53.84	130.07	45.76	188.77	1177.09	98.09
1958	202.04	125.12	129.38	115.70	199.69	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1672.83	139.40
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	123.82	74.32	124.72	44.70	127.08	1538.51	128.21
1960	80.00	185.26	133.49	147.70	96.69	105.76	168.28	139.19	74.37	187.08	195.53	202.04	1715.41	142.95
1961	163.10	109.87	61.49	37.97	138.31	145.31	188.37	151.46	157.54	59.56	64.04	151.42	1428.44	119.04
1962	202.04	131.18	112.37	67.56	141.91	144.45	186.17	150.45	82.69	122.43	135.35	204.81	1681.39	140.12
1963	202.04	182.49	106.49	147.70	123.95	159.93	186.60	153.46	77.43	134.54	36.91	206.08	1717.63	143.14
1964	202.04	182.49	122.49	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1689.25	140.77
1965	155.49	110.77	142.89	128.50	50.24	140.94	147.59	134.46	72.66	50.79	41.91	56.81	1233.05	102.75
1966	202.04	132.58	80.18	77.55	165.46	166.56	196.82	151.16	55.15	43.77	36.84	160.84	1468.96	122.41
1967	188.10	164.87	142.05	105.40	164.46	163.56	150.50	150.62	132.39	52.20	42.84	115.76	1572.77	131.06
1968	192.10	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1629.04	135.75
1969	140.66	127.89	149.39	101.98	160.47	161.56	180.18	88.00	73.77	49.89	75.87	38.53	1348.19	112.35
1970	205.22	182.49	107.49	156.70	114.69	114.84	184.23	150.74	92.94	149.06	102.06	204.62	1765.10	147.09
1971	202.04	125.23	124.26	135.64	113.69	130.07	163.88	133.54	90.54	161.55	152.99	202.04	1733.49	144.46
1972	150.10	134.08	148.34	136.47	104.45	149.84	184.70	148.68	53.93	50.46	40.95	133.30	1435.32	119.61
1973	148.04	153.26	166.90	160.07	158.36	108.60	56.25	60.17	54.44	58.58	56.62	123.71	1305.00	108.75
1974	148.04	159.36	67.51	59.98	61.23	74.98	79.54	99.09	111.25	88.30	54.03	82.64	1085.97	90.50
1975	75.05	50.26	56.53	56.01	59.80	58.04	58.47	69.52	93.29	111.28	126.71	132.71	947.66	78.97
1976	141.80	133.78	149.03	111.81	56.05	56.97	53.49	55.44	57.69	115.15	120.92	124.94	1177.08	98.09
1977	147.92	152.46	147.73	94.00	143.18	139.79	144.09	148.88	116.28	44.61	79.89	202.04	1560.88	130.07
TOTAL	4270.13	3928.05	3293.72	2859.10	3289.59	3514.37	4103.48	3390.47	2377.38	2956.32	2716.17	3958.72	40657.51	3388.13
MEAN	152.50	140.29	117.63	102.11	117.49	125.51	146.55	121.09	84.91	105.58	97.01	141.38	1452.05	121.00

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	33.38	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	33.38	2.78
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	40.06	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	40.06	3.34
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	162.59	0.	0.	0.	0.	0.	0.	0.	0.	88.46	3.04	254.09	21.17
1961	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1962	50.06	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.10	51.16	4.26
1963	153.06	23.38	0.	0.	0.	0.	0.	0.	0.	0.	0.	81.96	258.40	21.53
1964	153.06	14.38	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	167.44	13.95
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	0.06	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.06	0.00
1967	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1968	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	60.65	151.38	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	212.02	17.67
1971	131.06	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	239.04	370.10	30.84
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	190.04	190.04	15.84
TOTAL	588.01	385.10	0.	0.	0.	0.	0.	0.	0.	0.	88.46	515.18	1576.75	131.40
MEAN	21.00	13.75	0.	0.	0.	0.	0.	0.	0.	0.	3.16	18.40	56.31	4.69

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	195.00	192.40	191.71	188.54	187.24	183.50	179.05	176.53	175.82	174.20	174.20	173.95	2192.14	182.68
1951	186.46	188.07	184.87	185.68	183.85	182.23	178.86	174.20	173.96	174.49	181.15	185.49	2179.32	181.61
1952	195.00	195.00	192.27	193.10	192.98	191.48	187.74	184.95	182.07	183.52	182.74	180.68	2261.51	188.46
1953	177.38	174.20	173.43	173.07	171.69	170.08	170.00	170.00	170.00	174.20	175.45	178.17	2077.67	173.14
1954	183.47	183.17	185.29	189.63	186.19	182.66	180.69	178.87	175.09	178.21	176.05	187.17	2186.48	182.21
1955	195.00	195.00	195.00	195.00	195.00	195.00	192.44	192.06	193.38	193.30	191.88	188.08	2321.15	193.43
1956	184.17	180.58	176.47	174.20	173.38	173.33	173.38	173.69	174.20	174.20	178.44	181.00	2117.06	176.42
1957	179.12	180.37	175.90	174.20	173.21	174.20	174.20	174.20	173.73	175.99	184.14	195.00	2134.27	177.86
1958	195.00	193.36	195.00	195.00	195.00	193.44	190.62	191.95	190.52	191.41	192.11	192.46	2315.86	192.99
1959	192.02	188.56	184.51	180.96	177.89	178.00	175.53	174.20	174.20	177.61	184.44	188.91	2176.83	181.40
1960	193.33	195.00	195.00	195.00	195.00	194.50	195.00	195.00	195.00	195.00	195.00	195.00	2337.82	194.82
1961	195.00	195.00	195.00	195.00	193.42	191.93	188.63	186.61	183.69	186.29	191.53	195.00	2297.10	191.43
1962	195.00	194.94	193.17	194.08	195.00	194.15	191.01	187.80	187.82	191.12	193.49	195.00	2312.58	192.71
1963	195.00	195.00	195.00	195.00	193.93	190.65	188.72	186.54	186.43	186.85	192.80	195.00	2300.93	191.74
1964	195.00	195.00	195.00	194.01	191.57	187.46	185.45	183.02	181.72	183.15	182.81	184.32	2258.51	188.21
1965	181.03	180.07	175.82	174.20	181.14	179.17	174.20	175.15	174.20	180.35	187.24	195.00	2157.57	179.80
1966	195.00	193.45	193.71	195.00	191.46	187.24	181.65	178.06	180.59	186.07	193.78	195.00	2271.02	189.25
1967	195.00	195.00	193.84	192.11	188.38	184.04	181.35	178.69	174.20	178.28	187.37	195.00	2243.27	186.94
1968	195.00	192.83	192.72	191.59	187.32	183.24	180.04	177.65	176.47	180.46	185.59	190.87	2233.78	186.15
1969	191.59	190.16	186.53	185.65	182.31	179.34	174.20	174.20	174.23	181.68	185.38	193.27	2198.55	183.21
1970	195.00	195.00	195.00	195.00	195.00	193.84	190.78	189.10	188.16	189.09	192.20	195.00	2313.17	192.76
1971	195.00	194.96	194.29	195.00	195.00	193.62	191.46	192.34	193.87	195.00	195.00	195.00	2330.53	194.21
1972	195.00	192.53	189.10	185.74	186.53	182.61	178.23	174.20	173.62	181.42	188.24	195.00	2222.21	185.18
1973	193.91	190.90	186.65	182.40	177.64	174.20	172.94	174.20	172.94	171.56	174.20	181.52	2153.07	179.42
1974	180.83	175.67	174.20	174.20	174.20	174.20	174.20	174.20	174.20	174.20	173.48	174.20	2097.79	174.82
1975	174.20	173.72	173.17	172.14	171.01	171.96	172.68	174.20	174.20	174.20	180.61	183.17	2095.27	174.61
1976	184.48	181.52	177.45	174.20	173.19	170.99	170.00	170.00	170.00	174.20	181.78	187.86	2115.69	176.31
1977	184.93	180.93	176.54	174.20	176.77	180.26	182.79	181.30	178.27	186.73	195.00	195.00	2192.72	182.73
TOTAL	5316.92	5282.40	5236.66	5213.90	5185.32	5137.33	5075.87	5042.92	5022.57	5092.79	5196.12	5291.10	62093.88	5174.49
MEAN	189.89	188.66	187.02	186.21	185.19	183.48	181.28	180.10	179.38	181.89	185.58	188.97	2217.64	184.80

Table 1.8 (14) Summary of Case III Study

Condition of study

(1) H.W.L. El. 195 m

(2) L.W.L. El. 170 m

(3) Firm power 6,000 kW

(4) Installed capacity 40,000 kW

(5) Combination of irrigation and hydropower
Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	32.93	25.41	15.23	23.29	11.59	22.17	23.36	18.01	13.10	16.43	6.83	6.00	214.36	17.86
1951	13.55	20.38	20.82	12.05	13.15	21.05	23.47	14.35	6.00	15.91	13.30	18.12	192.15	16.01
1952	8.80	30.09	24.47	13.12	17.75	24.61	28.49	22.78	16.50	19.81	19.46	18.07	243.95	20.33
1953	16.47	13.91	6.00	6.00	6.00	6.00	5.01	4.91	3.13	11.44	14.81	15.08	108.76	9.06
1954	14.43	19.22	7.03	6.00	25.20	23.47	23.16	19.05	18.65	12.70	18.23	13.46	200.58	16.71
1955	13.06	40.00	21.39	26.26	30.09	18.85	31.40	19.51	7.08	23.43	24.83	30.30	286.20	23.85
1956	22.77	22.60	18.02	11.12	6.00	6.00	6.00	6.00	6.02	9.37	14.64	16.66	145.20	12.10
1957	17.98	14.87	18.04	7.79	6.00	7.85	9.85	8.15	6.00	14.38	6.00	29.53	146.45	12.20
1958	40.00	23.64	22.08	20.71	34.59	23.05	29.58	15.51	14.02	21.38	23.49	22.67	290.73	24.23
1959	24.10	26.79	22.21	19.96	18.78	16.87	19.21	13.70	8.34	14.20	6.00	18.74	208.90	17.41
1960	12.90	40.00	23.12	26.44	16.75	18.85	29.02	24.11	13.31	32.41	40.00	35.53	312.44	26.04
1961	28.25	21.07	10.65	6.80	23.62	24.93	29.88	22.79	23.24	8.47	10.22	25.42	235.35	19.61
1962	40.00	25.15	19.13	11.79	24.38	25.66	30.85	23.46	12.91	19.12	23.06	35.19	290.71	24.23
1963	40.00	39.48	18.45	26.44	21.27	27.23	29.26	23.10	11.76	19.84	6.00	40.00	307.83	25.24
1964	40.00	37.76	21.22	13.71	21.45	26.74	20.41	20.86	15.15	13.34	23.88	19.80	274.32	22.86
1965	21.00	15.74	17.18	14.75	6.00	18.51	17.16	14.80	8.26	6.00	6.00	9.16	154.57	12.88
1966	35.01	25.08	13.54	13.72	27.75	26.81	27.67	19.07	7.10	6.00	6.00	27.56	235.30	19.61
1967	32.59	31.62	24.35	18.18	26.07	24.68	20.33	19.08	15.81	6.00	6.00	18.70	243.41	20.28
1968	33.28	26.23	14.75	15.87	26.77	24.50	24.47	19.00	11.94	12.42	13.93	21.13	244.28	20.36
1969	22.72	22.71	22.81	15.36	22.33	21.58	21.00	9.55	8.28	6.00	10.79	6.00	189.13	15.76
1970	40.00	40.00	18.62	28.05	19.87	20.34	30.37	23.75	14.75	22.89	16.85	34.56	310.06	25.84
1971	40.00	23.63	21.38	24.13	19.70	22.99	27.14	21.85	15.66	27.70	27.39	40.00	311.54	25.96
1972	26.00	25.15	23.78	21.13	15.24	21.82	23.63	17.07	6.00	6.00	6.00	21.71	213.52	17.79
1973	25.40	28.03	25.70	23.29	20.06	12.78	6.00	6.41	6.00	6.00	6.11	14.84	180.62	15.05
1974	19.29	21.38	7.48	6.73	6.65	8.41	8.63	10.76	12.48	9.59	6.00	8.88	126.26	10.52
1975	8.15	6.00	6.00	6.00	6.00	6.00	6.00	7.38	10.46	12.08	15.52	17.59	107.17	8.93
1976	19.66	20.15	18.63	13.13	6.00	6.00	5.19	5.29	5.69	11.75	15.04	17.71	144.23	12.02
1977	21.70	22.92	18.12	10.90	16.12	17.62	18.93	19.80	15.13	6.00	13.25	40.00	220.49	18.37
TOTAL	710.00	708.99	500.22	442.72	495.15	525.38	575.47	450.11	312.77	390.68	399.63	622.38	6133.51	511.13
MEAN	25.36	25.32	17.86	15.81	17.68	18.76	20.55	16.08	11.17	13.95	14.27	22.23	219.05	18.25

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	24.50	17.08	11.33	16.77	8.62	15.97	17.38	13.40	9.43	12.22	4.92	4.46	156.08	13.01
1951	10.08	13.70	15.49	8.68	9.78	15.16	17.46	10.68	4.32	11.84	9.58	13.48	140.23	11.69
1952	6.55	20.22	18.20	9.44	13.21	17.72	21.20	16.95	11.88	14.74	14.01	13.44	177.57	14.80
1953	12.25	9.35	4.46	4.32	4.46	4.32	3.73	3.65	2.25	8.51	10.66	11.22	79.19	6.60
1954	10.73	12.91	5.23	4.32	18.75	16.90	17.23	14.17	13.43	9.45	13.13	10.01	146.26	12.19
1955	9.71	26.88	15.92	18.91	22.39	13.57	23.36	14.52	5.10	17.43	17.88	22.54	208.21	17.35
1956	16.94	15.18	13.41	8.01	4.46	4.32	4.46	4.46	4.33	6.97	10.54	12.40	105.50	8.79
1957	13.38	9.99	13.43	5.61	4.46	5.65	7.33	6.06	4.32	10.70	4.32	21.97	107.22	8.94
1958	29.76	15.89	16.43	14.91	25.74	16.60	22.01	11.54	10.09	15.90	16.91	16.87	212.65	17.72
1959	17.93	18.00	16.52	14.37	13.97	12.15	14.29	10.19	6.00	10.56	4.32	13.95	152.26	12.69
1960	9.60	26.88	17.20	19.04	12.46	13.57	21.59	17.94	9.59	24.11	28.80	26.43	227.21	18.93
1961	21.02	14.16	7.93	4.89	17.57	17.95	22.23	16.96	16.74	6.31	7.36	18.91	172.02	14.33
1962	29.76	16.90	14.24	8.49	18.14	18.47	22.95	17.46	9.30	14.23	16.60	26.18	212.71	17.73
1963	29.76	26.53	13.72	19.04	15.82	19.61	21.77	17.18	8.47	14.76	4.32	29.76	220.75	18.40
1964	29.76	25.37	15.79	9.87	15.96	19.25	15.19	15.52	10.91	9.93	17.19	14.73	199.47	16.62
1965	15.62	10.58	17.78	10.62	4.46	13.33	12.77	11.01	5.95	4.46	4.32	6.82	112.73	9.39
1966	26.05	16.85	10.07	9.88	20.65	19.30	20.58	14.19	5.11	4.46	4.32	20.51	171.97	14.33
1967	24.24	21.25	18.12	13.09	19.40	17.77	15.12	14.20	11.38	4.46	4.32	13.91	177.27	14.77
1968	24.76	17.63	10.97	11.43	19.91	17.64	18.20	14.14	8.60	9.24	10.03	15.72	178.27	14.86
1969	16.90	15.26	16.97	11.06	16.61	15.53	15.63	7.11	5.96	4.46	7.77	4.46	137.74	11.48
1970	29.76	26.88	13.85	20.20	14.78	14.65	22.60	17.67	10.62	17.03	12.13	25.71	225.88	18.82
1971	29.76	15.88	15.91	17.37	14.65	16.56	20.19	16.25	11.27	20.61	19.72	29.76	227.92	18.99
1972	19.35	16.90	17.69	15.21	11.34	15.71	17.58	12.70	4.32	4.46	4.32	16.15	155.73	12.98
1973	18.89	18.83	19.12	16.77	14.93	9.20	4.46	4.77	4.32	4.46	4.40	11.04	131.21	10.93
1974	14.35	14.37	5.57	4.84	4.95	6.06	6.42	8.00	8.98	7.13	4.32	6.60	91.59	7.63
1975	6.06	4.03	4.46	4.32	4.46	4.32	4.46	5.49	7.53	8.99	11.17	13.08	78.39	6.53
1976	14.62	13.54	13.86	9.45	4.46	4.32	3.86	3.94	4.10	8.74	10.83	13.18	104.90	8.74
1977	16.14	15.40	13.48	7.85	11.99	12.69	14.08	14.73	10.89	4.46	9.54	29.76	161.03	13.42
TOTAL	528.24	476.44	372.16	318.76	368.39	378.28	428.15	334.88	225.19	290.67	287.73	463.05	4471.95	372.66
MEAN	18.87	17.02	13.29	11.38	13.16	13.51	15.29	11.96	8.04	10.38	10.28	16.54	159.71	13.31

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	190.10	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	147.90	60.87	55.47	1491.24	124.27
1951	106.40	123.20	141.69	81.46	92.84	149.56	182.76	123.88	53.67	146.51	107.43	132.17	1441.56	120.13
1952	55.50	156.87	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1559.27	129.94
1953	133.24	110.72	55.87	55.02	58.36	59.15	52.40	51.44	31.69	112.15	129.72	129.22	978.96	81.58
1954	111.65	126.66	50.23	38.72	166.47	161.56	175.55	151.16	153.91	109.26	149.82	102.14	1497.12	124.76
1955	80.99	208.56	123.49	146.70	173.69	105.28	185.51	118.46	41.26	139.42	145.01	192.09	1660.48	138.37
1956	156.14	152.24	147.72	96.05	55.90	54.84	56.67	56.38	54.02	86.31	123.07	132.53	1171.89	97.66
1957	141.82	106.74	149.39	67.84	56.04	70.97	90.77	75.09	53.84	130.07	45.76	188.77	1177.09	98.09
1958	230.91	125.12	129.38	115.70	199.69	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1701.69	141.81
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	123.82	74.32	124.72	44.70	127.08	1538.51	128.21
1960	80.00	211.73	133.49	147.70	96.69	105.76	168.28	139.19	74.37	187.08	223.46	205.08	1772.84	147.74
1961	163.10	109.87	61.49	37.97	138.31	145.31	188.37	151.46	157.54	59.56	64.04	151.42	1428.44	119.04
1962	230.91	131.18	112.37	67.56	141.91	144.45	186.17	150.45	82.69	122.43	135.35	205.92	1711.36	142.61
1963	230.91	205.87	106.49	147.70	123.95	159.93	186.60	153.46	77.43	134.54	36.91	235.53	1799.31	149.94
1964	230.91	196.87	122.49	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1732.49	144.37
1965	155.49	110.77	142.89	128.50	50.24	140.94	147.59	134.46	72.66	50.79	41.91	56.81	1233.05	102.75
1966	202.10	132.58	80.18	77.55	165.46	166.56	196.82	151.16	55.15	43.77	36.84	160.84	1469.02	122.42
1967	188.10	164.87	142.05	105.40	164.46	163.56	150.50	150.62	132.39	52.20	42.84	115.76	1572.77	131.06
1968	192.10	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1629.04	135.75
1969	140.66	127.89	149.39	101.98	160.47	161.56	180.18	88.00	73.77	49.89	75.87	38.53	1348.19	112.35
1970	234.54	208.56	107.49	156.70	114.69	114.84	184.23	150.74	92.94	149.06	102.06	204.62	1820.48	151.71
1971	230.91	123.23	124.26	135.64	113.69	130.07	163.88	133.54	90.54	161.55	152.99	230.91	1791.21	149.27
1972	150.10	134.08	148.34	136.47	104.45	149.84	184.70	148.68	53.93	50.46	40.95	133.30	1435.32	119.61
1973	148.04	153.26	166.90	160.07	158.36	108.60	56.25	60.17	54.44	58.58	56.62	123.71	1305.00	108.75
1974	148.04	159.36	67.51	59.98	61.23	74.98	79.54	99.09	111.25	88.30	54.03	82.64	1085.97	90.50
1975	75.05	50.26	56.53	56.01	59.80	58.04	58.47	69.52	93.29	111.28	126.71	132.71	947.66	78.97
1976	141.80	133.78	149.03	111.81	56.05	56.97	53.49	55.44	57.69	115.15	120.92	124.94	1177.08	98.09
1977	147.92	152.46	147.73	94.00	143.18	139.79	144.09	148.88	116.28	44.61	79.89	230.91	1589.74	132.48
TOTAL	4443.83	4044.41	3293.72	2859.10	3289.59	3514.37	4103.48	3390.47	2377.38	2956.32	2744.10	4050.03	41066.81	3422.23
MEAN	158.71	144.44	117.63	102.11	117.49	125.51	146.55	121.09	84.91	105.58	98.00	144.64	1466.67	122.22

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	7.31	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.31	0.61
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	11.20	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	11.20	0.93
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	136.12	0.	0.	0.	0.	0.	0.	0.	0.	60.53	0.	196.65	16.39
1961	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1962	21.20	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	21.20	1.77
1963	124.20	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	52.52	176.72	14.73
1964	124.20	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	124.20	10.35
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1967	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1968	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	31.33	125.31	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	156.64	13.05
1971	102.20	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	210.17	312.37	26.03
1972	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	161.17	161.17	13.43
TOTAL	414.31	268.74	0.	0.	0.	0.	0.	0.	0.	0.	60.53	423.87	1167.45	97.29
MEAN	14.80	9.60	0.	0.	0.	0.	0.	0.	0.	0.	2.16	15.14	41.69	3.47

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	195.00	192.40	191.71	188.54	187.24	183.50	179.05	176.53	175.82	174.20	174.20	173.95	2192.14	182.68
1951	186.46	188.07	184.87	185.68	183.85	182.23	178.86	174.20	173.96	174.49	181.15	185.49	2179.32	181.61
1952	195.00	195.00	192.27	193.10	192.98	191.48	187.74	184.95	182.07	183.52	182.74	180.68	2261.51	188.46
1953	177.38	174.20	173.43	173.07	171.69	170.08	170.00	170.00	170.00	174.20	175.45	178.17	2077.67	173.14
1954	183.47	183.17	185.29	189.63	186.19	182.66	180.69	178.87	175.09	178.21	176.05	187.17	2186.48	182.21
1955	195.00	195.00	195.00	195.00	195.00	195.00	192.44	192.06	193.38	193.30	191.88	188.08	2321.15	193.43
1956	184.17	180.58	176.47	174.20	173.38	173.33	173.38	173.69	174.20	174.20	178.44	181.00	2117.06	176.42
1957	179.12	180.37	175.90	174.20	173.21	174.20	174.20	174.20	173.73	175.99	184.14	195.00	2134.27	177.86
1958	195.00	193.36	195.00	195.00	195.00	193.44	190.62	191.95	190.52	191.41	192.11	192.46	2315.86	192.99
1959	192.02	188.56	184.51	180.96	177.89	178.00	175.53	174.20	174.20	177.61	184.44	188.91	2176.83	181.40
1960	193.33	195.00	195.00	195.00	195.00	194.50	195.00	195.00	195.00	195.00	195.00	195.00	2337.82	194.82
1961	195.00	195.00	195.00	195.00	193.42	191.93	188.63	186.61	183.69	186.29	191.53	195.00	2297.10	191.43
1962	195.00	194.94	193.17	194.08	195.00	194.15	191.01	187.80	187.82	191.12	193.49	195.00	2312.58	192.71
1963	195.00	195.00	195.00	195.00	193.93	190.65	188.72	186.54	186.43	186.85	192.80	195.00	2300.93	191.74
1964	195.00	195.00	195.00	194.01	191.57	187.46	185.45	183.02	181.72	183.15	182.81	184.32	2258.51	188.21
1965	181.03	180.07	175.82	174.20	181.14	179.17	174.20	175.15	174.20	180.35	187.24	195.00	2157.57	179.80
1966	195.00	193.45	193.71	195.00	191.46	187.24	181.65	178.06	180.59	186.07	193.78	195.00	2271.02	189.25
1967	195.00	195.00	193.84	192.11	188.38	184.04	181.35	178.69	174.20	178.28	187.37	195.00	2243.27	186.94
1968	195.00	192.83	192.72	191.59	187.32	183.24	180.04	177.65	176.47	180.46	185.59	190.87	2233.78	186.15
1969	191.59	190.16	186.53	185.65	182.31	179.34	174.20	174.20	174.23	181.68	185.38	193.27	2198.55	183.21
1970	195.00	195.00	195.00	195.00	195.00	193.84	190.78	189.10	188.16	189.09	192.20	195.00	2313.17	192.76
1971	195.00	194.96	194.29	195.00	195.00	193.62	191.46	192.34	193.87	195.00	195.00	195.00	2330.53	194.21
1972	195.00	192.53	189.10	185.74	186.53	182.61	178.23	174.20	173.62	181.42	188.24	195.00	2222.21	185.18
1973	193.91	190.90	186.65	182.40	177.64	174.20	172.94	174.20	172.94	171.56	174.20	181.52	2153.07	179.42
1974	180.83	175.67	174.20	174.20	174.20	174.20	174.20	174.20	174.20	174.20	173.48	174.20	2097.79	174.82
1975	174.20	173.72	173.17	172.14	171.01	171.96	172.68	174.20	174.20	174.20	180.61	183.17	2095.27	174.61
1976	184.48	181.52	177.45	174.20	173.19	170.99	170.00	170.00	170.00	174.20	181.78	187.86	2115.69	176.31
1977	184.93	180.93	176.54	174.20	176.77	180.26	182.79	181.30	178.27	186.73	195.00	195.00	2192.72	182.73
TOTAL	5316.92	5287.40	5236.66	5213.90	5185.32	5137.33	5075.87	5042.92	5022.57	5092.79	5196.12	5291.10	62093.88	5174.49
MEAN	189.89	188.66	187.02	186.21	185.19	183.48	181.28	180.10	179.38	181.89	185.58	188.97	2217.64	184.80

Table 1.8 (15) Summary of Case III Study

Condition of study

(1) H.W.L. El. 188 m

(2) L.W.L. El. 154 m

(3) Firm power 0 kW

(4) Installed capacity 22,500 kW

(5) Combination of irrigation and hydropower
Before Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	22.50	21.99	13.01	19.61	9.59	17.81	17.16	0.	0.	0.	0.	0.	121.68	10.14
1951	8.76	16.66	16.88	7.78	10.67	16.61	17.34	0.	0.	0.	0.	14.41	109.11	9.09
1952	11.01	22.50	21.16	11.26	15.30	21.08	22.50	18.60	12.89	15.30	15.18	13.59	200.36	16.70
1953	11.33	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	10.37	21.71	1.81
1954	10.58	15.98	5.91	3.17	22.11	20.15	19.21	15.27	13.99	10.54	13.38	10.77	161.08	13.42
1955	20.11	22.50	18.83	22.50	22.50	16.62	22.50	16.70	6.10	20.28	21.37	22.50	232.51	19.38
1956	18.57	17.21	12.02	0.	0.	0.	0.	0.	0.	0.	0.	11.29	59.09	4.92
1957	12.38	10.11	0.	0.	0.	0.	0.	0.	0.	0.	3.32	22.50	48.31	4.03
1958	22.50	20.54	19.42	18.23	22.50	20.04	22.50	13.17	11.90	18.12	20.07	19.47	228.46	19.04
1959	20.70	22.50	18.21	15.40	13.19	11.25	0.	0.	0.	0.	4.26	15.85	121.37	10.11
1960	11.12	22.50	20.34	22.50	14.78	16.32	22.50	21.23	11.80	22.50	22.50	22.50	230.59	19.22
1961	22.50	18.53	9.44	6.06	20.42	21.41	22.50	18.83	18.67	6.80	8.55	22.50	196.22	16.35
1962	22.50	21.99	16.62	10.21	21.74	22.37	22.50	19.64	10.31	16.10	19.84	22.50	226.31	18.86
1963	22.50	22.50	16.25	22.50	18.52	22.50	22.50	19.06	9.61	16.27	0.41	22.50	215.12	17.93
1964	22.50	22.50	18.68	11.94	18.43	22.40	16.65	16.49	11.54	10.20	18.53	15.58	205.44	17.12
1965	16.18	11.43	0.	0.	0.	14.26	0.	0.	0.	0.	1.57	14.62	58.06	4.84
1966	22.50	21.79	11.71	12.31	22.50	22.41	21.72	13.37	4.89	0.78	5.24	22.50	181.71	15.14
1967	22.50	22.50	21.20	20.30	21.35	19.22	14.66	12.41	0.	0.	0.25	19.76	174.14	14.51
1968	22.50	22.50	17.67	13.57	22.43	19.63	18.15	12.83	0.	8.28	10.75	17.62	180.92	15.08
1969	19.42	19.36	19.09	12.64	17.80	16.00	0.	0.	0.	1.48	11.53	1.08	118.38	9.87
1970	22.50	22.50	16.41	22.50	17.50	17.58	22.50	19.96	12.30	19.11	14.29	22.50	229.66	19.14
1971	22.50	20.66	18.65	21.40	17.35	19.88	22.50	18.66	13.52	22.50	22.50	22.50	242.61	20.22
1972	22.50	21.77	20.11	17.35	12.38	17.28	16.94	0.	0.	0.	1.98	22.50	152.81	12.73
1973	22.11	22.50	21.36	18.38	14.08	0.	0.	0.	0.	0.	0.	0.	98.44	8.20
1974	13.83	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	13.83	1.15
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	12.86	12.86	1.07
1976	15.22	15.30	12.55	0.	0.	0.	0.	0.	0.	0.	10.54	14.63	68.24	5.69
1977	18.35	18.52	13.31	0.	0.	0.	13.76	14.74	10.47	0.98	16.65	22.50	129.28	10.77
TOTAL	499.67	496.85	373.82	309.62	355.14	374.81	358.09	250.95	147.99	189.24	242.70	439.41	4038.29	336.52
MEAN	17.85	17.74	13.35	11.06	12.68	13.39	12.79	8.96	5.29	6.76	8.67	15.69	144.22	12.02

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	16.74	14.78	9.68	14.12	7.13	12.83	12.77	0.	0.	0.	0.	0.	88.04	7.34
1951	6.52	11.20	12.56	5.60	7.94	11.96	12.90	0.	0.	0.	0.	10.72	79.40	6.62
1952	8.19	15.12	15.75	8.11	11.38	15.18	16.74	13.84	9.28	11.38	10.93	10.11	146.00	12.17
1953	8.43	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.72	16.15	1.35
1954	7.87	10.74	4.40	2.29	16.45	14.51	14.29	11.36	10.08	7.84	9.63	8.01	117.47	9.79
1955	14.96	15.12	14.01	16.20	16.74	11.97	16.74	12.43	4.39	15.09	15.39	16.74	169.77	14.15
1956	13.82	11.57	8.94	0.	0.	0.	0.	0.	0.	0.	0.	8.40	42.72	3.56
1957	9.21	6.79	0.	0.	0.	0.	0.	0.	0.	0.	2.39	16.74	35.14	2.93
1958	16.74	13.80	14.45	13.13	16.74	14.43	16.74	9.80	8.57	13.48	14.45	14.49	166.81	13.90
1959	15.40	15.12	13.55	11.09	9.82	8.10	0.	0.	0.	0.	3.07	11.79	87.94	7.33
1960	8.27	15.12	15.14	16.20	10.99	11.75	16.74	15.80	8.49	16.74	16.20	16.74	168.18	14.02
1961	16.74	12.45	7.02	4.37	15.19	15.42	16.74	14.01	13.45	5.06	6.16	16.74	143.34	11.95
1962	16.74	14.77	12.36	7.35	16.18	16.10	16.74	14.61	7.42	11.97	14.29	16.74	165.29	13.77
1963	16.74	15.12	12.09	16.20	13.78	16.20	16.74	14.18	6.92	12.10	0.29	16.74	157.11	13.09
1964	16.74	15.12	13.90	8.60	13.71	16.13	12.38	12.27	8.31	7.59	13.34	11.59	149.68	12.47
1965	12.04	7.68	0.	0.	0.	10.76	0.	0.	0.	0.	1.13	10.88	41.99	3.50
1966	16.74	14.65	8.71	8.86	16.74	16.13	16.16	9.95	3.52	0.58	3.77	16.74	132.55	11.05
1967	16.74	15.12	15.77	14.62	15.88	13.84	10.91	9.23	0.	0.	0.18	14.70	126.99	10.58
1968	16.74	15.12	9.43	9.77	16.69	14.13	13.50	9.55	0.	6.16	7.74	13.11	131.93	10.99
1969	14.45	13.01	14.20	9.10	13.24	11.52	0.	0.	0.	1.10	8.30	0.80	85.72	7.14
1970	16.74	15.12	12.21	16.20	13.02	12.66	16.74	14.85	8.86	14.22	10.29	16.74	167.65	13.97
1971	16.74	13.88	13.88	15.41	12.91	14.31	16.74	13.88	9.74	16.74	16.20	16.74	177.16	14.76
1972	16.74	14.63	14.96	12.49	9.21	12.44	12.60	0.	0.	0.	1.42	16.74	111.25	9.27
1973	16.45	15.12	15.89	13.23	10.48	0.	0.	0.	0.	0.	0.	0.	71.18	5.93
1974	10.29	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	10.29	0.86
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	9.57	9.57	0.80
1976	11.32	10.28	9.34	0.	0.	0.	0.	0.	0.	0.	7.59	10.88	49.41	4.12
1977	13.65	12.44	9.90	0.	0.	0.	10.24	10.97	7.54	0.73	11.99	16.74	94.20	7.85
TOTAL	371.75	333.88	278.12	222.93	264.22	269.87	266.42	186.71	106.55	140.79	174.74	326.92	2942.91	245.24
MEAN	13.28	11.92	9.93	7.96	9.44	9.64	9.51	6.67	3.81	5.03	6.24	11.68	105.10	8.76

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	148.55	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	149.54	79.76	52.06	1466.82	122.24
1951	106.40	123.20	141.69	65.04	92.84	149.56	182.76	150.92	53.66	146.51	81.40	132.17	1426.16	118.85
1952	81.40	134.18	144.80	76.45	106.21	144.71	181.95	155.46	116.03	146.34	138.05	136.91	1562.47	130.21
1953	133.24	131.11	43.51	49.91	34.97	31.66	52.44	53.02	33.31	138.78	129.72	129.22	960.90	80.07
1954	104.54	126.66	50.23	23.62	166.47	161.56	175.55	151.16	153.91	123.64	149.82	102.14	1489.30	124.11
1955	143.09	134.18	124.31	143.76	148.55	106.19	184.60	118.46	41.26	139.42	145.01	192.09	1620.94	135.08
1956	156.14	152.24	147.72	115.26	42.74	55.78	59.44	64.02	65.31	87.82	123.07	132.53	1202.08	100.17
1957	141.82	106.74	149.39	74.63	39.78	90.78	92.67	77.02	47.31	130.07	36.47	170.94	1157.62	96.47
1958	148.55	125.12	130.95	116.47	148.55	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1570.53	130.88
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	148.67	76.31	98.35	42.43	129.35	1538.97	128.25
1960	80.00	136.08	134.31	143.76	97.55	104.91	149.43	140.17	75.37	148.55	143.76	148.55	1502.46	125.21
1961	148.55	110.52	62.31	38.74	137.55	145.31	188.37	151.46	157.54	59.56	64.04	155.04	1418.99	118.25
1962	148.55	131.18	112.37	67.56	145.15	144.45	186.17	150.45	79.56	122.43	135.35	151.00	1574.20	131.18
1963	148.55	134.18	107.31	143.76	123.95	159.93	186.60	153.46	77.43	134.54	2.94	150.62	1523.27	126.94
1964	148.55	134.18	123.31	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1588.27	132.36
1965	155.49	110.77	142.89	128.50	32.16	144.95	187.46	129.16	81.92	25.46	13.67	104.57	1256.98	104.75
1966	148.55	132.58	80.18	79.94	165.46	166.56	196.82	151.16	55.15	7.21	36.84	148.55	1369.01	114.08
1967	148.55	134.18	142.05	138.44	164.46	163.56	150.50	150.62	117.14	60.68	2.43	142.23	1514.84	126.24
1968	148.55	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	138.76	1585.50	132.12
1969	140.66	127.89	149.39	101.98	160.47	161.56	181.47	107.94	54.02	17.97	98.61	7.98	1309.95	109.16
1970	148.55	134.18	108.31	143.76	115.55	113.98	184.23	150.74	92.94	149.06	102.06	153.72	1597.11	133.09
1971	148.55	123.23	124.26	137.93	114.55	129.22	163.88	133.54	90.54	150.48	143.76	148.55	1608.50	134.04
1972	148.55	134.08	148.34	136.47	104.45	149.84	184.70	151.46	58.85	41.18	16.73	159.65	1434.31	119.53
1973	148.04	153.26	166.90	160.07	158.36	123.37	35.25	85.02	33.43	35.06	105.77	123.71	1328.26	110.69
1974	148.04	159.36	72.04	61.51	62.93	76.78	81.44	101.02	113.31	89.82	42.13	97.06	1105.45	92.12
1975	75.93	42.74	48.32	38.81	40.89	76.78	73.44	99.02	95.31	112.82	126.71	132.71	963.50	80.29
1976	141.80	133.78	149.03	118.08	39.41	18.78	37.10	57.02	59.31	146.21	120.92	124.94	1146.40	95.53
1977	147.92	152.46	147.73	144.47	143.18	139.79	144.09	148.88	116.28	9.62	116.50	148.55	1559.49	129.96
TOTAL	3833.55	3645.77	3284.20	2905.04	3113.61	3507.14	4109.07	3529.80	2347.45	2805.55	2606.24	3694.87	39382.29	3281.86
MEAN	136.91	130.21	117.29	103.75	111.20	125.25	146.75	126.06	83.84	100.20	93.08	131.96	1406.51	117.21

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	42.17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	42.17	3.51
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1952	0.	23.35	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	23.35	1.95
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	0.	82.35	0.	3.71	26.00	0.	0.	0.	0.	0.	0.	0.	112.06	9.34
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	30.31	30.31	2.53
1958	94.17	0.	0.	0.	52.00	0.	0.	0.	0.	0.	0.	0.	146.16	12.18
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1960	0.	233.82	0.	4.71	0.	0.	21.59	0.	0.	39.28	140.86	57.13	497.40	41.45
1961	15.17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.01	20.17	1.68
1962	104.17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	64.78	168.94	14.08
1963	207.17	72.35	0.	4.71	0.	0.	0.	0.	0.	0.	0.	179.17	463.40	38.62
1964	207.17	63.35	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	270.51	22.54
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1966	54.17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	57.13	111.30	9.27
1967	40.17	31.35	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	71.51	5.96
1968	44.17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	44.17	3.68
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	181.17	200.35	0.	13.71	0.	0.	0.	0.	0.	0.	0.	58.66	453.89	37.82
1971	185.17	0.	0.	0.	0.	0.	0.	0.	0.	17.03	9.86	293.13	505.18	42.10
1972	2.17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	11.96	14.12	1.18
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	244.13	244.13	20.34
TOTAL	1176.98	706.91	0.	26.85	78.00	0.	21.59	0.	0.	56.31	150.72	1001.40	3218.77	268.23
MEAN	42.04	25.25	0.	0.96	2.79	0.	0.77	0.	0.	2.01	5.38	35.76	114.96	9.58

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
  (AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	188.00	184.75	183.91	180.33	178.82	173.90	166.41	161.71	160.37	156.23	154.00	154.00	2042.44	170.20
1951	177.54	179.61	175.61	177.39	175.13	172.59	167.03	154.30	154.00	155.42	171.19	177.55	2037.35	169.78
1952	188.00	188.00	184.60	185.67	185.55	183.70	179.50	176.03	171.71	174.13	172.90	169.51	2159.30	179.94
1953	163.78	154.00	154.00	154.00	154.00	154.00	154.00	154.00	154.00	160.29	162.65	167.58	1886.31	157.19
1954	176.12	175.78	178.49	183.72	180.29	175.93	173.04	170.51	164.67	168.76	165.42	180.98	2093.72	174.48
1955	188.00	188.00	188.00	188.00	188.00	188.00	184.85	184.41	186.11	186.03	184.28	179.99	2233.68	186.14
1956	175.08	169.18	161.73	154.00	154.00	154.00	154.00	154.00	154.00	154.00	164.36	169.03	1917.39	159.78
1957	165.71	167.91	159.14	154.00	154.00	154.00	154.00	154.00	154.00	160.00	175.25	188.00	1940.00	161.67
1958	188.00	185.96	188.00	188.00	188.00	186.07	182.56	184.27	182.52	183.67	184.58	185.04	2226.68	185.56
1959	184.51	180.55	175.61	170.07	164.93	165.22	160.21	154.00	154.00	165.02	176.08	181.33	2031.52	169.29
1960	186.64	188.00	188.00	188.00	188.00	187.43	188.00	188.00	188.00	188.00	188.00	188.00	2254.07	187.84
1961	188.00	188.00	188.00	188.00	186.07	184.23	180.46	178.08	174.29	177.78	183.92	188.00	2204.83	183.74
1962	188.00	187.94	185.75	186.92	188.00	186.96	183.05	179.51	179.72	183.42	186.42	188.00	2223.70	185.31
1963	188.00	188.00	188.00	188.00	186.69	182.59	180.53	177.96	177.89	178.46	186.66	188.00	2210.77	184.23
1964	188.00	188.00	188.00	186.78	183.75	179.06	176.57	173.14	171.11	173.48	172.98	175.36	2156.23	179.69
1965	170.17	168.34	160.61	156.77	171.60	168.20	154.00	157.25	154.00	169.39	180.54	188.00	1998.87	166.57
1966	188.00	186.08	186.43	188.00	183.58	178.75	170.81	164.66	169.07	179.06	188.00	188.00	2170.44	180.87
1967	188.00	188.00	186.57	183.29	178.80	172.92	168.33	163.24	154.00	163.29	179.93	188.00	2114.37	176.20
1968	188.00	185.30	185.19	183.80	178.91	173.47	167.97	164.05	161.71	169.10	177.05	183.22	2117.76	176.48
1969	184.15	182.37	178.38	177.32	172.61	167.64	157.29	155.01	157.79	173.65	177.69	188.00	2071.90	172.66
1970	188.00	188.00	188.00	188.00	188.00	186.60	182.79	180.95	180.04	181.02	184.73	188.00	2224.13	185.34
1971	188.00	187.98	187.16	188.00	188.00	186.32	183.65	184.79	186.75	188.00	188.00	188.00	2244.65	187.05
1972	188.00	184.92	180.86	176.88	177.92	172.45	165.12	155.72	154.00	170.95	181.23	188.00	2096.04	174.67
1973	186.65	182.90	178.02	172.03	163.76	154.00	154.00	154.00	154.00	154.00	154.00	170.00	1977.36	164.78
1974	168.68	158.17	154.00	154.00	154.00	154.00	154.00	154.00	154.00	154.00	154.00	154.00	1866.85	155.57
1975	154.00	154.00	154.00	154.00	154.00	154.00	154.00	154.00	154.00	154.00	168.18	172.72	1880.91	156.74
1976	174.90	170.14	162.62	154.00	154.00	154.00	154.00	154.00	154.00	159.85	172.97	180.91	1945.39	162.12
1977	177.45	171.70	164.82	154.14	161.00	167.71	172.31	169.96	164.67	179.56	188.00	188.00	2059.32	171.61
TOTAL	5077.38	5021.57	4953.52	4903.11	4881.40	4817.75	4722.50	4655.54	4624.42	4760.54	4923.01	5045.22	58385.95	4865.50
MEAN	181.34	179.34	176.91	175.11	174.34	172.06	168.66	166.27	165.16	170.02	175.82	180.19	2085.21	173.77

Table 1.9 Summary of Case IV Study

Condition of study

(1) H.W.L. El. 195 m

(2) L.W.L. El. 170 m

(3) Firm power 6,000 kW

(4) Installed capacity 26,000 kW

(5) After Kotmale

* MORAGAHAKANDA POWER STATION
* MONTHLY MEAN POWER OUTPUT IN MW

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	26.00	25.52	15.64	24.43	12.35	24.08	25.57	19.92	14.73	18.99	19.12	8.19	234.52	19.54
1951	12.41	20.10	16.19	6.59	15.39	25.20	26.00	22.29	16.51	21.02	6.00	26.00	213.70	17.81
1952	26.00	26.00	24.60	13.40	20.39	25.38	26.00	24.42	16.60	22.43	22.23	20.91	268.37	22.36
1953	19.50	21.27	18.39	6.00	13.29	6.00	6.00	7.68	8.00	15.74	16.33	15.32	153.51	12.79
1954	8.29	21.88	8.04	15.70	26.00	26.00	26.00	22.86	22.91	14.07	22.61	16.04	230.40	19.20
1955	26.00	26.00	26.00	26.00	26.00	18.85	26.00	19.56	7.18	24.01	25.59	26.00	277.18	23.10
1956	23.63	23.69	19.48	18.76	15.26	8.07	7.11	6.85	7.44	9.37	14.64	16.71	171.02	14.25
1957	18.37	15.65	19.57	18.64	14.04	15.35	10.05	10.32	6.00	12.70	6.23	22.63	169.54	14.13
1958	26.00	23.87	26.00	26.00	26.00	23.17	26.00	15.67	14.17	21.71	23.95	23.32	275.86	22.99
1959	25.17	26.00	23.76	22.08	22.26	20.92	24.09	21.08	18.51	6.00	6.91	26.00	242.79	20.23
1960	26.00	26.00	26.00	26.00	20.22	17.79	26.00	25.32	15.10	26.00	26.00	26.00	286.43	23.87
1961	26.00	25.48	17.75	11.22	21.95	25.68	26.00	24.43	24.50	8.85	14.79	26.00	252.66	21.06
1962	26.00	26.00	19.31	21.40	26.00	25.11	26.00	24.49	10.84	20.50	26.00	26.00	277.65	23.14
1963	26.00	26.00	25.55	26.00	21.37	26.00	26.00	24.02	12.31	20.82	6.00	26.00	266.06	22.17
1964	26.00	26.00	26.00	13.75	21.74	26.00	21.72	22.77	16.74	14.93	26.00	22.51	264.16	22.01
1965	24.38	19.06	21.79	19.98	6.00	24.79	26.00	19.20	15.23	6.00	24.30	26.00	232.72	19.39
1966	26.00	25.32	19.64	26.00	26.00	26.00	26.00	19.31	7.27	6.00	6.00	26.00	239.55	19.96
1967	26.00	26.00	25.38	18.23	26.00	26.00	22.61	21.70	20.39	6.00	6.00	26.00	250.32	20.86
1968	26.00	26.00	15.11	16.62	26.00	26.00	26.00	22.10	14.13	14.57	15.91	26.00	254.44	21.20
1969	26.00	24.49	25.12	17.54	26.00	26.00	26.00	15.60	8.17	6.00	21.53	26.00	248.45	20.70
1970	26.00	26.00	23.99	26.00	23.68	16.58	26.00	24.32	15.23	23.80	17.48	26.00	275.07	22.92
1971	26.00	26.00	24.51	26.00	24.20	18.63	26.00	22.34	17.91	26.00	26.00	26.00	289.58	24.13
1972	26.00	25.15	23.82	21.21	15.54	23.16	26.00	20.04	11.66	6.00	6.00	26.00	230.57	19.21
1973	25.51	26.00	25.99	23.61	20.43	16.10	6.35	8.91	6.00	6.00	9.43	15.00	189.32	15.78
1974	19.83	22.33	12.76	16.15	10.83	8.41	9.39	10.76	12.48	9.70	7.95	14.19	154.78	12.90
1975	12.25	6.00	6.00	6.00	6.50	9.19	9.06	10.64	10.58	11.97	15.52	17.63	121.35	10.11
1976	19.97	20.70	19.25	17.07	6.41	6.00	6.00	6.84	6.00	16.37	15.87	18.57	159.06	13.26
1977	23.22	25.05	20.15	18.77	18.43	20.57	21.70	22.81	18.11	6.00	26.00	26.00	246.80	20.57
TOTAL	648.54	657.56	575.79	529.17	538.27	561.02	585.66	516.27	374.68	401.53	460.38	627.01	6475.86	539.66
MEAN	23.16	23.48	20.56	18.90	19.22	20.04	20.92	18.44	13.38	14.34	16.44	22.39	231.28	19.27

* MORAGAHAKANDA POWER STATION
* MONTHLY ENERGY OUTPUT IN 1000MWH

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	19.34	17.15	11.64	17.59	9.19	17.33	19.02	14.82	10.61	14.13	13.77	6.09	170.67	14.22
1951	9.24	13.51	12.04	4.75	11.45	18.14	19.34	16.59	11.88	15.64	4.32	19.34	156.24	13.02
1952	19.34	17.47	18.30	9.65	15.17	18.28	19.34	18.17	11.95	16.69	16.01	15.56	195.93	16.33
1953	14.51	14.29	13.68	4.32	9.88	4.32	4.46	5.71	5.76	11.71	11.75	11.40	111.81	9.32
1954	6.17	14.70	5.98	11.31	19.34	18.72	19.34	17.01	16.50	10.47	16.28	11.93	167.75	13.98
1955	19.34	17.47	19.34	18.72	19.34	13.57	19.34	14.55	5.17	17.86	18.42	19.34	202.49	16.87
1956	17.58	15.92	14.49	13.50	11.36	5.81	5.29	5.09	5.36	6.97	10.54	12.43	124.36	10.36
1957	13.67	10.52	14.56	13.42	10.44	11.05	7.47	7.68	4.32	9.45	4.49	16.84	123.90	10.33
1958	19.34	16.04	19.34	18.72	19.34	16.68	19.34	11.66	10.20	16.15	17.24	17.35	201.43	16.79
1959	18.73	17.47	17.68	15.90	16.56	15.06	17.93	15.68	13.33	4.46	4.97	19.34	177.12	14.76
1960	19.34	17.47	19.34	18.72	15.04	12.81	19.34	18.84	10.87	19.34	18.72	19.34	209.20	17.43
1961	19.34	17.12	13.21	8.08	16.33	18.49	19.34	18.18	17.64	6.58	10.65	19.34	184.32	15.36
1962	19.34	17.47	14.36	15.41	19.34	18.08	19.34	18.22	7.80	15.25	18.72	19.34	202.70	16.89
1963	19.34	17.47	19.01	18.72	15.90	18.72	19.34	17.87	8.86	15.49	4.32	19.34	194.39	16.20
1964	19.34	17.47	19.34	9.90	16.18	18.72	16.16	16.94	12.05	11.11	18.72	16.75	192.68	16.06
1965	18.14	12.81	16.21	14.39	4.46	17.85	19.34	14.29	10.96	4.46	17.49	19.34	169.75	14.15
1966	19.34	17.02	14.61	18.72	19.34	18.72	19.34	14.37	5.24	4.46	4.32	19.34	174.83	14.57
1967	19.34	17.47	18.88	13.13	19.34	18.72	16.83	16.15	14.68	4.46	4.32	19.34	182.67	15.22
1968	19.34	17.47	11.24	11.97	19.34	18.72	19.34	16.45	10.17	10.84	11.46	19.34	185.69	15.47
1969	19.34	16.46	18.69	12.63	19.34	18.72	19.34	11.61	5.88	4.46	15.50	19.34	181.32	15.11
1970	19.34	17.47	17.85	18.72	17.62	11.94	19.34	18.10	10.97	17.71	12.58	19.34	200.98	16.75
1971	19.34	17.47	18.24	18.72	18.00	13.41	19.34	16.62	12.89	19.34	18.72	19.34	211.45	17.62
1972	19.34	16.90	17.72	15.27	11.56	16.67	19.34	14.91	8.39	4.46	4.32	19.34	168.25	14.02
1973	18.98	17.47	19.34	17.00	15.20	11.59	4.72	6.63	4.32	4.46	6.79	11.16	137.66	11.47
1974	14.75	15.00	9.50	11.63	8.06	6.06	6.99	8.00	8.98	7.21	5.72	10.56	112.47	9.37
1975	9.12	4.03	4.46	4.32	4.83	6.62	6.74	7.92	7.61	8.91	11.17	13.12	88.86	7.40
1976	14.86	13.91	14.32	12.29	4.77	4.32	4.46	5.09	4.32	12.18	11.43	13.82	115.77	9.65
1977	17.27	16.83	14.99	13.52	13.71	14.81	16.14	16.97	13.04	4.46	18.72	19.34	179.81	14.98
TOTAL	482.51	441.88	428.38	381.00	400.47	403.93	435.73	384.11	269.77	298.74	331.47	466.50	4724.49	393.71
MEAN	17.23	15.78	15.30	13.61	14.30	14.43	15.56	13.72	9.63	10.67	11.84	16.66	168.73	14.06

* MORAGAHAKANDA DAM
* MONTHLY RELEASE IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	150.09	135.67	92.85	142.52	76.55	149.56	178.82	150.38	110.54	149.54	155.72	74.12	1566.37	130.53
1951	95.66	117.07	102.38	39.44	92.84	149.56	182.76	150.92	113.28	146.51	36.95	152.44	1379.81	114.98
1952	150.09	135.56	144.80	76.45	117.85	143.73	181.95	155.46	105.78	146.34	138.05	136.91	1632.95	136.08
1953	133.24	139.93	146.44	48.48	116.17	54.53	56.72	71.13	71.32	138.78	129.72	116.50	1222.98	101.91
1954	56.44	126.66	50.23	90.04	166.47	161.56	175.55	151.16	153.91	97.44	149.82	102.14	1481.42	123.45
1955	150.94	135.56	150.09	145.25	150.09	105.28	185.51	118.46	41.26	139.42	145.01	192.09	1658.97	138.25
1956	156.14	152.24	147.72	147.99	135.27	71.98	65.54	63.09	66.33	86.31	123.07	132.53	1348.21	112.35
1957	141.82	106.74	149.39	152.90	126.28	134.68	92.54	95.09	53.50	117.00	49.47	146.72	1366.13	113.84
1958	150.09	125.12	150.87	145.25	150.09	130.61	180.37	95.96	84.00	133.03	139.32	137.58	1622.30	135.19
1959	146.36	152.50	151.01	142.89	150.45	135.84	164.82	149.84	131.88	42.33	42.11	152.63	1562.65	130.22
1960	150.09	135.56	150.09	145.25	116.69	99.65	150.51	146.19	84.37	150.09	145.25	150.09	1623.83	135.32
1961	150.09	132.87	102.49	62.70	126.69	144.33	188.37	151.46	153.12	56.74	85.67	150.09	1504.61	125.38
1962	150.09	135.56	112.05	120.20	150.09	140.28	175.72	150.45	64.87	122.43	145.68	150.09	1617.49	134.79
1963	150.09	135.56	147.49	145.25	123.95	159.93	186.60	153.46	77.43	134.54	35.38	150.31	1599.99	133.33
1964	150.09	135.56	150.09	77.27	128.94	165.56	138.97	149.12	109.36	99.39	169.93	143.68	1617.97	134.83
1965	155.49	110.77	142.89	128.50	37.21	143.97	190.74	125.18	96.77	38.26	139.37	150.09	1459.22	121.60
1966	150.09	132.58	113.82	145.25	165.46	166.56	196.82	151.16	55.15	42.84	36.26	150.79	1506.78	125.56
1967	150.09	135.56	146.49	103.07	164.46	163.56	150.50	150.62	146.21	43.70	36.50	150.42	1541.19	128.43
1968	150.09	139.50	88.67	93.42	171.47	165.56	185.71	154.46	98.37	101.98	99.05	154.66	1602.93	133.58
1969	150.09	127.89	149.39	101.98	160.47	161.56	181.47	107.94	54.02	38.11	122.60	150.09	1505.61	125.47
1970	150.09	135.56	138.49	145.25	136.69	92.98	184.23	150.74	92.94	149.06	102.06	151.33	1629.49	135.79
1971	150.09	135.56	141.49	145.25	139.69	104.25	163.88	133.54	101.33	150.09	145.25	150.09	1660.52	138.38
1972	150.09	134.08	148.34	136.47	104.45	149.84	184.70	151.46	88.35	43.87	37.11	153.24	1482.01	123.50
1973	148.04	153.26	166.90	160.07	158.36	135.15	58.46	82.07	54.44	57.39	85.67	123.71	1383.54	115.29
1974	148.04	159.36	112.14	142.91	99.02	74.98	86.54	99.09	111.25	89.32	70.87	128.69	1322.22	110.18
1975	111.08	50.26	56.53	55.46	61.06	81.96	83.51	98.05	94.29	110.28	126.71	132.71	1061.89	88.49
1976	141.80	133.78	149.03	140.53	58.19	54.57	57.27	63.89	53.67	146.21	120.92	124.94	1244.81	103.73
1977	147.92	152.46	147.73	144.47	143.18	139.79	144.09	148.88	116.28	37.48	145.69	150.09	1618.07	134.84
TOTAL	3984.34	3702.84	3649.89	3324.51	3528.15	3581.78	4172.69	3569.24	2584.02	2808.50	2959.18	3958.82	41823.96	3485.33
MEAN	142.30	132.24	130.35	118.73	126.01	127.92	149.02	127.47	92.29	100.30	105.69	141.39	1493.71	124.48

* MORAGAHAKANDA DAM
* MONTHLY SPILL OUT IN MILLION CUBIC METERS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	65.01	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	65.01	5.42
1951	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	90.71	90.71	7.56
1952	255.01	51.30	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	306.32	25.53
1953	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1954	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1955	183.04	108.30	11.40	44.46	36.61	0.	0.	0.	0.	0.	0.	0.	383.81	31.98
1956	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1957	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1958	107.01	0.	63.41	22.46	63.61	0.	0.	0.	0.	0.	0.	0.	256.49	21.37
1959	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	71.65	71.65	5.97
1960	114.01	302.30	8.40	45.46	0.	0.	23.86	0.	0.	35.99	138.74	71.99	740.76	61.73
1961	39.01	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	149.99	189.01	15.75
1962	118.01	22.30	0.	0.	54.61	0.	0.	0.	0.	0.	68.31	125.99	389.22	32.44
1963	227.01	91.30	0.	34.46	0.	0.	0.	0.	0.	0.	0.	211.65	564.42	47.03
1964	238.01	103.30	15.40	0.	0.	0.	0.	0.	0.	0.	0.	0.	356.72	29.73
1965	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	206.99	206.99	17.25
1966	72.01	0.	0.	11.46	0.	0.	0.	0.	0.	0.	0.	54.18	137.65	11.47
1967	73.01	70.30	0.	0.	0.	0.	0.	0.	0.	0.	0.	231.59	374.91	31.24
1968	73.01	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	45.85	118.87	9.91
1969	57.01	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	173.99	231.01	19.25
1970	190.01	228.30	0.	43.46	0.	0.	0.	0.	0.	0.	0.	120.03	581.81	48.48
1971	213.01	19.30	0.	58.46	0.	0.	0.	0.	0.	52.99	23.74	305.99	673.50	56.12
1972	21.01	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	134.84	155.86	12.99
1973	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1975	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1977	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	213.85	276.99	490.84	40.90
TOTAL	2045.24	996.73	98.62	260.19	154.82	0.	23.86	0.	0.	88.98	444.63	2272.45	6385.53	532.13
MEAN	73.04	35.60	3.52	9.29	5.53	0.	0.85	0.	0.	3.18	15.88	81.16	228.05	19.00

* MORAGAHAKANDA DAM
* MONTHLY RESERVOIR WATER LEVEL IN METERS
(AT THE END OF THE MONTH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	MEAN
1950	195.00	192.85	194.07	191.19	191.15	187.64	182.91	180.87	180.66	179.59	175.42	174.20	2225.55	185.46
1951	187.85	190.48	189.81	192.83	192.39	191.06	188.80	184.79	184.49	186.36	193.28	195.00	2277.13	189.76
1952	195.00	195.00	192.87	194.84	195.00	193.52	190.93	188.67	187.59	189.58	189.24	187.58	2299.82	191.65
1953	185.15	181.72	177.63	177.95	174.20	172.84	173.82	174.20	174.20	177.31	179.62	183.56	2132.21	177.68
1954	189.52	189.41	192.14	195.00	192.88	190.29	188.74	187.10	184.14	187.32	185.19	194.37	2276.11	189.68
1955	195.00	195.00	195.00	195.00	195.00	195.00	192.42	192.36	194.50	194.85	193.56	189.80	2327.49	193.96
1956	186.10	182.90	180.51	176.96	174.20	174.20	174.20	174.20	174.20	174.20	178.44	181.25	2131.36	177.61
1957	180.66	183.11	179.72	174.76	175.32	174.20	174.20	174.20	174.19	174.20	182.78	195.00	2142.34	178.53
1958	195.00	194.42	195.00	195.00	195.00	194.01	191.16	192.46	191.12	192.43	193.14	194.44	2323.18	193.60
1959	194.76	191.66	188.14	186.62	187.11	187.33	185.28	183.80	182.16	187.57	193.15	195.00	2262.58	188.55
1960	195.00	195.00	195.00	195.00	195.00	194.69	195.00	195.00	195.00	195.00	195.00	195.00	2339.69	194.97
1961	195.00	195.00	195.00	195.00	195.00	194.34	191.99	190.35	187.84	191.03	195.00	195.00	2320.55	193.38
1962	195.00	195.00	194.41	195.00	195.00	195.00	192.36	190.94	191.62	194.67	195.00	195.00	2329.01	194.08
1963	195.00	195.00	195.00	195.00	194.45	192.17	190.55	188.71	188.80	189.29	194.83	195.00	2313.80	192.82
1964	195.00	195.00	195.00	194.30	192.75	189.70	189.42	187.36	186.48	188.75	188.54	190.79	2293.09	191.09
1965	188.63	189.92	186.74	188.63	193.65	192.11	188.04	189.21	187.33	192.09	195.00	195.00	2286.34	190.53
1966	195.00	194.54	195.00	195.00	191.46	187.32	181.67	179.09	181.55	187.09	194.48	195.00	2277.21	189.77
1967	195.00	195.00	195.00	193.68	190.64	188.66	186.57	184.68	180.72	186.14	194.75	195.00	2285.84	190.49
1968	195.00	193.46	194.74	194.58	192.05	189.49	186.28	184.36	183.62	186.85	191.71	195.00	2287.14	190.59
1969	195.00	194.84	191.88	193.75	191.91	189.51	185.82	185.74	186.93	192.89	195.00	195.00	2298.26	191.52
1970	195.00	195.00	195.00	195.00	195.00	194.54	191.94	190.41	190.17	191.10	194.05	195.00	2322.23	193.52
1971	195.00	195.00	195.00	195.00	195.00	194.78	192.60	193.58	195.00	195.00	195.00	195.00	2335.96	194.66
1972	195.00	192.53	189.32	186.00	188.27	186.51	183.03	180.68	180.03	186.50	192.71	195.00	2255.58	187.97
1973	194.40	191.39	187.34	183.05	178.52	174.20	174.20	174.20	172.94	172.93	174.20	182.36	2159.73	179.98
1974	182.38	177.59	174.20	174.74	174.20	174.20	174.20	174.20	174.20	174.20	174.20	175.33	2103.66	175.30
1975	174.20	173.72	173.17	172.82	174.20	174.20	174.20	174.20	174.20	174.20	180.61	183.44	2103.17	175.26
1976	185.73	182.73	178.95	175.26	174.20	172.80	173.20	174.20	173.96	176.63	183.67	190.52	2141.86	178.49
1977	189.01	185.01	181.29	178.17	183.21	186.94	188.49	188.65	186.87	194.66	195.00	195.00	2252.30	187.69
TOTAL	5358.39	5332.28	5296.92	5280.12	5266.77	5231.28	5182.02	5158.23	5144.52	5212.45	5292.58	5347.64	63103.19	5258.60
MEAN	191.37	190.44	189.18	188.58	188.10	186.83	185.07	184.22	183.73	186.16	189.02	190.99	2253.69	187.81