

ARR and Tariff Formats

Generation Business

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Note : Spread sheet financial models (in CD) shall also be submitted along with the application.

Form G 1.1 : Summary of Tariff Proposal
KERALA STATE ELECTRICITY BOARD LIMITED - SBU - GENERATION

S.No.	Particulars	Ref	2016-17				2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	Normative	TU Order	Apr-Sep*	Estimated	Approved	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Capacity Charge												
1.1	Annual Fixed Charges												
1.1.1	O & M Expenses	4	75.71	128.55	NA	112.61				127.86	152.44	176.59	211.77
	Terminal benefits			81.83		54.58							
	Interest on addl Bond to Master Trust									19.12	19.12	19.12	19.12
1.1.2	Depreciation	6.1	172.43	153.74	NA	124.59				122.26	125.01	137.68	168.12
1.1.3	Interest on Loan Capital	6.2	178.9	50.05	NA	71.38				106	127.05	191.72	264.66
1.1.4	Interest on Bonds to meet Terminal Liabilities	6.2 ©	41.94	0	NA	0							
	Interest on GPF									9.83	10.48	11.12	11.77
	Interest on Master Bonds									39.67	37.58	35.5	33.41
1.1.5	Interest on Working Capital	6.11	-	0		0				5.86	6.19	6.89	8.38
1.1.6	Return on Equity	6.9	203.63	288.74	NA	240.72				116.38	116.38	116.38	116.38
1.1.7	Tax on ROE	6.12	-	0	NA	0							
1.1.8	Any other item (to be specified)		-	40.26	NA	41.16							
	One time Expense to CMDRF									1.79			
1.1.9	Less: Other income	3.2	-	22.23	NA					25.83	33.38	37.28	41.17
	Total (1.1) Annual Fixed Charges		672.61	720.94	NA	645.04				522.94	560.87	657.72	792.44
2	Total- Energy (variable) charges		-	23.45	NA	23.45							
3	Units sold to Discoms (MU)		-	4339.92									
4	Rate of Variable Charges												
4.1	Rate of Energy Charge from Primary Fuel (REC) _p	5.3											
4.2	Total-(2) Rate of Energy Charge ex-bus(REC) ^{3A,3B}	5.1											

Form G 1.2 : Aggregate Revenue Requirement
KERALA STATE ELECTRICITY BOARD LIMITED - SBU - GENERATION

S.No.	Particulars	Ref	2016-17				2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	Normative	TU Reqt	Apr-Sep (Actual)	Estimated	Approved	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	Expenditure												
1	Variable Costs, including Fuel Cost	5.1		23.45	NA	23.45							
2	Depreciation	6.1	172.43	153.74	NA	124.59				122.26	125.01	137.68	168.12
3	Interest on term Loan & Finance charges	6.2	220.84	50.05	NA	71.38				106.00	127.05	191.72	264.66
4	Return on Equity	6.9	203.63	288.74	NA	240.72				116.38	116.38	116.38	116.38
5	Tax on ROE	6.12			NA								
	Contribution to Master Trust									19.12	19.12	19.12	19.12
	Interest on Master Trust									39.67	37.58	35.50	33.41
	Interest on GPF									9.83	10.48	11.12	11.77
6	Interest on Working Capital	6.11			NA					5.86	6.19	6.89	8.38
7	O & M Expenses	4	75.71	128.55	NA	112.61				123.77	129.77	136.05	142.63
	Terminal benefits			81.83	NA	54.58							
9	Any other item (to be specified)			40.26	NA	41.16							
	One Time Expense CMDRF									1.79			
	Total- (A) Expenditure		672.61	766.62	NA	668.49				544.68	571.58	654.46	764.47
B	Receipts				NA								
1	Revenue from Sale of Power (Tariff income)	3.1			NA								
2	Other income	3.2		22.23	NA	22.23				25.83	33.38	37.28	41.17
3	Revenue Subsidies, Grants & Subvention from State Govt.				NA								
	Total- (B)			22.23	NA	22.23				25.83	33.38	37.28	41.17
C	ARR (A-B(2)-B(3))		672.61	744.39		646.26				518.85	538.20	617.18	723.30

Form G 2.1 : Plant Characteristics
KERALA STATE ELECTRICITY BOARD LIMITED - SBU - GENERATION

Basic characteristics of the plant ¹						
Special Features of the Plant						
Site Specific Features ²						
Special Technological Features ³						
Environmental Regulation related features ⁴						
Any other special features						
Fuel Details ⁵	Primary Fuel			Secondary Fuel		Alternate Fuels
Details	Unit number					
	1	2	3	4	5	6
Installed Capacity (IC)	16	16	16	16	16	16
Date of Commercial Operation (COD)	11.09.1999	18.09.1999	30.09.1999	11.09.1999	25.10.1999	06.11.1999
Type of cooling system ⁶	Closed Loop					
Type of Boiler Feed Pump ⁷	NA	NA	NA	NA	NA	NA
Pressure (kg/cm2)	NA	NA	NA	NA	NA	NA
Temperature 0C	NA	NA	NA	NA	NA	NA
-At Superheater Outlet	NA	NA	NA	NA	NA	NA
-At Reheater Outlet	NA	NA	NA	NA	NA	NA
Turbine Cycle heat Rate(Kcal/ Kwh)	NA	NA	NA	NA	NA	NA
Boiler Efficiency (%)	NA	NA	NA	NA	NA	NA
Guaranteed Design Heat rate (kCal/kWh) ⁸	2014.35	2014.35	2014.35	2014.35	2014.35	2014.35
Conditions on which guaranteed	Optimum load in steady state operation with desired fuel quality					
% MCR						
% Makeup						
Design Fuel	LSHS	LSHS	LSHS	LSHS	LSHS	LSHS
Design cooling water Temperature	HT-71/LT-37	HT-71/LT-37	HT-71/LT-37	HT-71/LT-37	HT-71/LT37	HT-71/LT-37
Back Pressure						

Note: Unit No.1 and 4 has been decommissioned

Form G 2.1 : Plant Characteristics

KERALA STATE ELECTRICITY BOARD LIMITED - SBU - GENERATION

Basic characteristics of the plant¹			
Special Features of the Plant			
Site Specific Features²			
Special Technological Features³			
Environmental Regulation related features⁴			
Any other special features			
Fuel Details⁵	Primary Fuel	Secondary Fuel	
	LSHS	HSD	
Details	Unit number		
	1	2	3
Installed Capacity (IC)	21.32	21.32	21.32
Date of Commercial Operation (COD)	06.05.1997	17.12.1997	24.11.98
Type of cooling system ⁶	Closed loop		
Type of Boiler Feed Pump ⁷	Engine coupled Generator		
Pressure (kg/cm ²)			
Temperature 0C			
-At Superheater Outlet			
-At Reheater Outlet			
Turbine Cycle heat Rate(Kcal/ Kwh)			
Boiler Efficiency (%)			
Guaranteed Design Heat rate (kCal/kWh)⁸			
Conditions on which guaranteed			
% MCR			
% Makeup			
Design Fuel	LSHS/HSD	LSHS/HSD	LSHS/HSD
Design cooling water Temperature			
Back Pressure			

Note: Unit No.2 and 3 has been decommissioned

Form G 2.2 : Operational Parameters - Generation

KERALA STATE ELECTRICITY BOARD LIMITED - SBU - GENERATION

Name of Power Station :

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	TU Reqt	Approved	Audited	Truing Up	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Operational Parameters - Hydel											
1.1	Total Capacity	MW	37.5	-								
	AFC		-	-								
	Capacity Charge		-	-								
	Energy charge rate		-	-								
1.2	NAPAF	%	90	-					90	90	90	90
1.3	Annual Plant Availability Factor	%	-	90.32								
1.4	Design Energy	MU	284	-					284	284	284	284
1.5	Gross Generation	MU	226.52	166.01					145.2459	154.9812	166.2054878	152.3684032
1.6	Auxiliary Energy Consumption	%	1	0.289924703					1	1	1	1
1.7	Auxiliary Energy Consumption	MU	2.27	0.481304					1.452459	1.549812	1.662054878	1.523684032
1.8	Net Generation	MU	224.25	165.528696					143.793441	153.431388	164.5434329	150.8447192

Form G 2.2 : Operational Parameters - Generation
KERALA STATE ELECTRICITY BOARD LIMITED - SBU - GENERATION
Name of the Generating Station /Unit : SENGULAM

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	tu Reqt	Apr-Sep (Actual)	Estimated	Approved	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Operational Parameters - Hydel											
1.1	Total Capacity	MW	51.2									
	AFC		-	-								
	Capacity Charge		-	-								
	Energy charge rate		-	-								
1.2	NAPAF	%	90	-								
1.3	Annual Plant Availability Factor	%	-	90.2								
1.4	Design Energy	MU	182	-								
1.5	Gross Generation	MU	145.17	115.58					83.14962	111.78056	115.901835	104.2430074
1.6	Auxiliary Energy Consumption	%	0.15	5.739877141					1	1	1	1
1.7	Auxiliary Energy Consumption	MU	0.22	6.63415					0.8314962	1.1178056	1.15901835	1.042430074
1.8	Net Generation	MU	144.95	108.94585					82.3181238	110.6627544	114.7428167	103.2005773

Note: Tail race water from Pallivasal power house is pumped to Sengulam reservoir for generating energy at Shengulam Power house. 5.57% total energy generation is used for pumping for the year

Form G 2.2 : Operational Parameters - Generation
KERALA STATE ELECTRICITY BOARD LIMITED - SBU - GENERATION
Name of the Generating Station /Unit : 'Neriamangalam + NES

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Operational Parameters - Hydel											
1.1	Total Capacity	MW	52.65 + 25	-								
	AFC		-	-								
	Capacity Charge		-	-								
	Energy charge rate		-	-								
1.2	NAPAF	%		-								
1.3	Annual Plant Availability Factor	%	-	88.27								
1.4	Design Energy	MU	237 + 58.27	-								
1.5	Gross Generation	MU	189.03 + 46.48	196.25					293.4734	248.5094	266.5014987	241.2254243
1.6	Auxiliary Energy Consumption	%	0.18	0.291379363					1	1	1	1
1.7	Auxiliary Energy Consumption	MU	0.424	0.571832					2.934734	2.485094	2.665014987	2.412254243
1.8	Net Generation	MU	235.086	195.678168					290.538666	246.024306	263.8364837	238.8131701

Form G 2.2 : Operational Parameters - Generation

KERALA STATE ELECTRICITY BOARD LTD.

Name of the Generating Station /Unit : Panniar

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	TU Reqt	Apr-Sep (Actual)	Estimated	Approved	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Operational Parameters - Hydel											
1.1	Total Capacity	MW	32.4	-								
	AFC		-	-								
	Capacity Charge		-	-								
	Energy charge rate		-	-								
1.2	NAPAF	%	89	-								
1.3	Annual Plant Availability Factor	%	-	82.34								
1.4	Design Energy	MU	158	-								
1.5	Gross Generation	MU	126.02	62.17					86.11771	108.7573	104.419794	89.51605447
1.6	Auxiliary Energy Consumption	%	0.53	0.747					1	1	1	1
1.7	Auxiliary Energy Consumption	MU	0.67	0.46467					0.8611771	1.087573	1.04419794	0.895160545
1.8	Net Generation	MU	125.35	61.70533					85.2565329	107.669727	103.3755961	88.62089393

Form G 2.2 : Operational Parameters - Generation

KERALA STATE ELECTRICITY BOARD LTD.

Name of the Generating Station /Unit : Poringalkkuthu + PLBE

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	TU Reqt	Apr-Sep (Actual)	Estimated	Approved	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Operational Parameters - Hydel											
1.1	Total Capacity	MW	32 + 16	36 + 16								
	AFC		-	-								
	Capacity Charge		-	-								
	Energy charge rate		-	-								
1.2	NAPAF	%	89	-								
1.3	Annual Plant Availability Factor	%	-	73.88								
1.4	Design Energy	MU	170 + 74	-								
1.5	Gross Generation	MU	135.59 + 59.02	194.94					149.8467	189.00289	192.443936	171.0075193
1.6	Auxiliary Energy Consumption	%	0.44	0.499					1	1	1	1
1.7	Auxiliary Energy Consumption	MU	0.8563	0.97351					1.498467	1.8900289	1.92443936	1.710075193
1.8	Net Generation	MU	193.7537	193.966495					148.348233	187.1128611	190.5194967	169.2974441

Form G 2.2 : Operational Parameters - Generation

KERALA STATE ELECTRICITY BOARD LTD.

Name of the Generating Station /Unit : Sholayar

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	TU Reqt	Apr-Sep (Actual)	Estimated	Approved	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Operational Parameters - Hydel											
1.1	Total Capacity	MW	54	-								
	AFC		-	-								
	Capacity Charge		-	-								
	Energy charge rate		-	-								
1.2	NAPAF	%	89	-								
1.3	Annual Plant Availability Factor	%	-	83.59								
1.4	Design Energy	MU	233	-								
1.5	Gross Generation	MU	185.84	167.11					154.7248	160.0209	173.0817	162.6040748
1.6	Auxiliary Energy Consumption	%	0.18	0.538					1	1	1	1
1.7	Auxiliary Energy Consumption	MU	0.33	0.89854					1.547248	1.600209	1.730817	1.626040748
1.8	Net Generation	MU	185.51	166.211456					153.177552	158.420691	171.350883	160.9780341

Form G 2.2 : Operational Parameters - Generation

KERALA STATE ELECTRICITY BOARD LTD.

Name of the Generating Station /Unit : Sholayar

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	TU Reqt	Apr-Sep (Actual)	Estimated	Approved	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Operational Parameters - Hydel											
1.1	Total Capacity	MW	335	340								
	AFC		-	-								
	Capacity Charge		-	-								
	Energy charge rate		-	-								
1.2	NAPAF	%	90	-								
1.3	Annual Plant Availability Factor	%	-	85.67								
1.4	Design Energy	MU	1338	-								
1.5	Gross Generation	MU	1067.21	797.83					1681.298	1361.678	1235.308609	1202.822635
1.6	Auxiliary Energy Consumption	%	0.22	0.392					1	1	1	1
1.7	Auxiliary Energy Consumption	MU	2.35	3.12569					16.81298	13.61678	12.35308609	12.02822635
1.8	Net Generation	MU	1064.86	794.704312					1664.48502	1348.06122	1222.955523	1190.794409

Form G 2.2 : Operational Parameters - Generation

KERALA STATE ELECTRICITY BOARD LTD.

Name of the Generating Station /Unit : KUTTIADI+ KES

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	TU Reqt	Apr-Sep (Actual)	Estimated	Approved	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Operational Parameters - Hydel											
1.1	Total Capacity	MW	225	-								
	AFC		-	-								
	Capacity Charge		-	-								
	Energy charge rate		-	-								
1.2	NAPAF	%	90	-								
1.3	Annual Plant Availability Factor	%	-	88.22								
1.4	Design Energy	MU	566	-								
1.5	Gross Generation	MU	451.45	465.44					791.1386	748.9252	669.8704	681.5424627
1.6	Auxiliary Energy Consumption	%	0.24	0.427					0.7	0.7	0.7	0.7
1.7	Auxiliary Energy Consumption	MU	1.08	1.98628					5.5379702	5.2424764	4.6890928	4.770797239
1.8	Net Generation	MU	450.37	463.453724					785.6006298	743.6827236	665.1813072	676.7716655

Form G 2.2 : Operational Parameters - Generation

KERALA STATE ELECTRICITY BOARD LTD.

Name of the Generating Station /Unit : IDUKKI

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	TU Reqt	Apr-Sep (Actual)	Estimated	Approved	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Operational Parameters - Hydel											
1.1	Total Capacity	MW	780	-								
	AFC		-	-								
	Capacity Charge		-	-								
	Energy charge rate		-	-								
1.2	NAPAF	%	90									
1.3	Annual Plant Availability Factor	%		88.43								
1.4	Design Energy	MU	2398	-								
1.5	Gross Generation	MU	1912.68	1379.05					3264.762	2677.696	2342.161652	2282.191501
1.6	Auxiliary Energy Consumption	%	0.53	0.554					1.2	1.2	1.2	1.2
1.7	Auxiliary Energy Consumption	MU	10.137204	7.63623					39.177144	32.132352	28.10593982	27.38629801
1.8	Net Generation	MU	1902.542796	1371.413774					3225.584856	2645.563648	2314.055712	2254.805203

Form G 2.2 : Operational Parameters - Generation

KERALA STATE ELECTRICITY BOARD LTD.

Name of the Generating Station /Unit :IDAMALAYAR

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	TU Reqt	Apr-Sep (Actual)	Estimated	Approved	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Operational Parameters - Hydel											
1.1	Total Capacity	MW	75	-								
	AFC		-	-								
	Capacity Charge		-	-								
	Energy charge rate		-	-								
1.2	NAPAF	%	77	-								
1.3	Annual Plant Availability Factor	%		88.62								
1.4	Design Energy	MU	380	-								
1.5	Gross Generation	MU	303.09	171.96					415.4131	359.7398	318.3561466	313.0068472
1.6	Auxiliary Energy Consumption	%	0.1	0.137					1	1	1	1
1.7	Auxiliary Energy Consumption	MU	0.3	0.236264					4.154131	3.597398	3.183561466	3.130068472
1.8	Net Generation	MU	302.79	171.723736					411.258969	356.142402	315.1725851	309.8767787

Form G 2.2 : Operational Parameters - Generation

KERALA STATE ELECTRICITY BOARD LTD.

Name of the Generating Station /Unit : LOWER PERIYAR

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	TU Reqt	Apr-Sep (Actual)	Estimated	Approved	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Operational Parameters - Hydel											
1.1	Total Capacity	MW	180	-								
	AFC		-	-								
	Capacity Charge		-	-								
	Energy charge rate		-	-								
1.2	NAPAF	%	-	-								
1.3	Annual Plant Availability Factor	%	-	87.74								
1.4	Design Energy	MU	493	-								
1.5	Gross Generation	MU	393.22	308.22					401.4268	400.5107	402.2420219	365.7137399
1.6	Auxiliary Energy Consumption	%	0.13	0.684					1	1	1	1
1.7	Auxiliary Energy Consumption	MU	0.511186	2.10917					4.014268	4.005107	4.022420219	3.657137399
1.8	Net Generation	MU	392.708814	306.11083					397.412532	396.505593	398.2196017	362.0566025

Form G 2.2 : Operational Parameters - Generation
KERALA STATE ELECTRICITY BOARD LTD.

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	TU Reqt	Apr-Sep (Actual)	Estimated	Approved	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Operational Parameters - Hydel											
1.1	Total Capacity	MW	50	-								
	AFC		-	-								
	Capacity Charge		-	-								
	Energy charge rate		-	-								
1.2	NAPAF	%	88	-								
1.3	Annual Plant Availability Factor	%		86.35								
1.4	Design Energy	MU	262	-								
1.5	Gross Generation	MU	208.97	130.63					187.9222	140.7685	154.3366042	145.0687856
1.6	Auxiliary Energy Consumption	%	0.71	0.483					0.7	0.7	0.7	0.7
1.7	Auxiliary Energy Consumption	MU	1.483687	0.631579					1.3154554	0.9853795	1.080356229	1.015481499
1.8	Net Generation	MU	207.486313	129.998421					186.6067446	139.7831205	153.256248	144.0533041

Form G 2.2 : Operational Parameters - Generation

KERALA STATE ELECTRICITY BOARD LTD.

Name of the Generating Station /Unit : SHEPs

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	TU Reqt	Apr-Sep (Actual)	Estimated	Approved	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Operational Parameters - Hydel											
1.1	Total Capacity	MW	91.4	95								
	AFC		-	-								
	Capacity Charge		-	-								
	Energy charge rate		-	-								
1.2	NAPAF	%	-	-								
1.3	Annual Plant Availability Factor	%	-									
1.4	Design Energy	MU	327.18	-								
1.5	Gross Generation	MU	251.818	163.9					231.9259	336.0534	423.6069	560.4615
1.6	Auxiliary Energy Consumption	%	1	0.246					1	1	1	1
1.7	Auxiliary Energy Consumption	MU	2.51818	1.222					2.319259	3.360534	4.236069	5.604615
1.8	Net Generation	MU	249.29982	162.678					229.606641	332.692866	419.370831	554.856885

Form G 2.2 : Operational Parameters - Generation

KERALA STATE ELECTRICITY BOARD LTD.

Name of the Generating Station /Unit : SOLAR

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22
			Approved	Audited	TU Reqt	Apr-Sep (Actual)	Estimated	Approved	(Projected)	(Projected)	(Projected)	(Projected)
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13
1	Operational Parameters - Hydel											
1.1	Total Capacity	MW	91.4	95								
	AFC		-	-								
	Capacity Charge		-	-								
	Energy charge rate		-	-								
1.2	NAPAF	%	-	-								
1.3	Annual Plant Availability Factor	%	-									
1.4	Design Energy	MU	327.18	-								
1.5	Gross Generation	MU	251.818	163.9					14.96	42.608	47.595	47.595
1.6	Auxiliary Energy Consumption	%	1	0.246					0	0	0	0
1.7	Auxiliary Energy Consumption	MU	2.51818	1.222					0	0	0	0
1.8	Net Generation	MU	249.29982	162.678					14.96	42.608	47.595	47.595

Form G 2.2 : Operational Parameters - Generation

KERALA STATE ELECTRICITY BOARD LTD.

Name of the Generating Station /Unit : SOLAR

Form G 3.1 V : Revenue from Sale of Power

Name of the Generating Business/Company KERALA STATE ELECTRICITY BOARD LTD.
 Name of the Generating Station : SBU-G

Year (2016-17)*

Rs. Crore

S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (MU)	% of total Unit Sold	Fixed Charges	Energy Charges	Others, if any	Total (6+7+8)	Average' rate/kWh	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity (as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)										
(b)										
(c)										
(d)										
(e)										
(f)										
2	Other recoveries									
(a)	Reactive energy charges									
(b)	Electricity duty & other state Levies recovery (contra)									
(c)	Delayed payment surcharge									
(d)	Rebate on fuel supplies									
(e)	Other miscellaneous charges									
(f)										
3	Revenue From Sale of Power									

*To be submitted Separately for the financial years 2016-17, 2017-18, 2018-19, 2019-20, 2020-21, 2021-22

**Form G 3.2
Other Income**

Name of the Generating Business/Company
Name of the Generating Station/Unit :

KSEB LIMITED
SBU-G

Rs. Crore

Sr. No	Particulars	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22	Remarks
		Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12	13
	Other Income											
1	Interest on Loans and Adv.to Licensees							0.33	0.33	0.33	0.33	
2	Interest on staff loans and advances	...	0.01	0.01				0.01	0.01	0.01	0	
3	Income from statutory investments	...	0	0				0	0	0	0	
4	Income from sale of ash/rejected coal		0	0				0	0	0	0	
5	Income from rent of land or buildings	...	0.62	0.62				0	0	0	0	
6	Income from sale of scrap/Tender forms	...	1.56	1.56				3.11	7.73	8.69	9.66	
7	Income from staff welfare activities	...	0	0				0	0	0	0	
8	Rental from staff quarters	...	0.07	0.07				0.06	0.06	0.07	0.08	
9	Rent from Contractors							0.12	0.14	0.15	0.17	
10	Rent from Others							0.62	0.72	0.81	0.9	
11	Excess found on physical verification	...	0	0				0.01	0.02	0.02	0.02	
12	SD forfeited							13.77	15.83	17.89	19.95	
13	Sale of trees							0.02	0.03	0.03	0.03	
14	Usufructs							0.14	0.16	0.18	0.21	
15	Penalty/LD from Contractors/Suppliers							1.68	1.94	2.19	2.44	
16	Outside student project							0.03	0.03	0.03	0.04	
17	Cost of DPR PVT SHP Developers							0.13	0.15	0.17	0.19	
18	Revenue Energy Audit Consultancy							0.01	0.01	0.01	0.01	
19	Testing Fee from Contractors							0.02	0.02	0.02	0.02	
20	Others							1.98	2.28	2.58	2.88	
21	Interest on investments, fixed and call deposits and bank balances/FD	...	0.01	0.01				1.47	1.47	1.47	1.47	
22	Interest on advances to suppliers/contractors	...	0.91	0.91				2.32	2.47	2.61	2.76	
23	Income from hire charges from contractors and others	...	0	0								
24	Income from advertisements, etc.	...	0	0								
25	Miscellaneous receipts	...	19.06	19.06								
.....		...	0	0								
.....		...	0	0		-0.1						
	Total Other income		22.23	22.23				25.83	33.38	37.28	41.17	

Form G 3.3
Capital Subsidies and Grants

Name of the Generating Business/Company
 Name of the Generating Station /Unit :

KERALA STATE ELECTRICITY BOARD LIMITED
 SBU-G

Rs. Crore

S. No.	Particulars	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22	Remarks
		Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12	12
1	Subsidy towards cost of Capital Asset											
2	Grant towards cost of Capitals Assets											
3	Receipts from State Govt. under any scheme as grant/subsidy											
	Total											

Form G 4
O&M Expenses

Name of the Generating Business/Company

KERALA STATE ELECTRICITY BOARD LIMITED

Name of the Generating Station/Unit :

SBU-GENERATION

(Rs. Crore)

S.No.	Particulars	2016-17				2017-18			2018-19	2019-20	2020-21	2021-22	Remarks
		Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	Projected	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Employee Expenses (as per norms)	47.65	91.16		91.16				130.27	139.39	149.76	160	
2	Annual Contribution for Terminal Liabilities based on actuarial valuation/Terminal benefits	19.83	81.83		81.83				0	0	0	0	
3	Repair & Maintenance Expenses (as per norms)	4.59	27.7		27.7				30.42	31.94	33.53	35.21	
4	Administrative & General Expenses (as per norms)	3.64	9.69		9.69				29.81	33.81	38.41	44.08	
5	Total O&M Expenses (as per Norms)								127.858	152.44	176.591	211.765	
6	Total O&M Expenses (actuals)	75.71	210.28		210.38				190.5	205.14	221.70	239.29	

Form G 4(a)
Employee Expenses

Name of Generating Business/Licensee: KSEBL / SBU-G

Rs. Crore

S. No.	Particulars	Reference	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22	Remarks
			Approved in Tariff Order	Audited	As per Truing up order	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13	14
1	Basic Salary		NA	123.48	123.48				120.98	125.21	129.59	134.13	
	Pension fund-Actuarial valuation												
	Add: Provision for Pay Revision												
2	Dearness Allowance (DA)		NA	26.59	26.59				36.29	45.08	54.43	64.38	
3	House Rent Allowance		NA	1.82	1.82				2.91	2.91	2.91	2.91	
	Spread over Allowances								0.32	0.32	0.32	0.32	
	Incentive Allowances								0.02	0.02	0.02	0.02	
	Local & other Allowances								1.81	1.81	1.81	1.81	
4	Conveyance Allowance		NA	0	0								
5	Leave Travel Allowance		NA	0.02	0.02				0.02	0.02	0.02	0.02	
	Payment under Workmen Compensation Act								0.02	0.02	0.02	0.02	
	Leave Salary and Pension Contribution								0.03	0.03	0.03	0.03	
	NPS Contribution								0.84	0.91	0.97	1.04	
6	Earned Leave Encashment		NA	9.7	9.7				10.03	10.36	10.68	11	
7	Other Allowances		NA	4.28	4.28								
8	Medical Reimbursement		NA	0.61	0.61				0.71	0.74	0.78	0.81	
9	Overtime Payment/Holiday wages		NA	0.37	0.37				0.02	0.02	0.02	0.02	
10	Bonus/Ex-Gratia Payments		NA	0.42	0.42				0.65	0.68	0.71	0.74	
11	Interim Relief / Wage Revision		NA	0	0								
12	Staff welfare expenses		NA	0.14	0.14				0.01	0.01	0.01	0.01	
	Uniform and Livery Expenses								0.28	0.28	0.28	0.28	
13	VRS Expenses/Retrenchment Compensation		NA	0	0								
14	Commission to Directors		NA	0	0								
15	Training Expenses		NA	0	0								
16	Payment under Workmen's Compensation Act		NA	0	0								
17	Net Employee Costs		NA	167.44	167.44								
18	Terminal Benefits		NA	80.86	80.86								
18.1	Provident Fund Contribution												
18.2	Provision for PF Fund												
18.3	Pension Payments												
18.4	Gratuity Payment												
18.5	Annual Contribution for Terminal Liabilities based on actuarial valuation												
19	Others		NA	0.97	0.97								
20	Gross Employee Expenses		NA	249.27	249.27				174.94	188.42	202.6	217.54	
21	Less: Expenses Capitalised		NA	76.28	76.28				44.67	49.03	52.84	57.54	
22	Net Employee Expenses		47.65	172.99	172.99				130.27	139.39	149.76	160	

Form G 4(b)
Administrative & General Expenses

Name of Generating Business/Licensee: KSEBL/SBU-G

														Rs. Crore
S. No.	Particulars	Reference	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22	Remarks	
			Approved in Tariff Order	Audited	Trueing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	(Projected)		
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13	14	
1	Rent Rates & Taxes		NA	6.12	6.12				5.08	5.70	6.39	7.14		
2	Insurance		NA	0.09	0.09				0.08	0.08	0.09	0.11		
3	Telephone & Postage, etc.		NA	0.18	0.18				0.27	0.30	0.34	0.38		
4	Legal charges		NA	0.44	0.44				0.46	0.52	0.58	0.65		
5	Audit Fees		NA	0.11	0.11				0.03	0.04	0.04	0.05		
6	Consultancy charges		NA	0.07	0.07				0.02	0.03	0.03	0.03		
7	Other Professional charges		NA	0.46	0.46				1.11	1.24	1.39	1.56		
8	Conveyance		NA	3.33	3.33				3.82	4.28	4.80	5.37		
9	Vehicle Running Expenses Truck / Delivery Van		NA	0.04	0.04				0.00					
10	Vehicle Hiring Expenses Truck / Delivery Van		NA	0.01	0.01				0.00					
11	Electricity charges		NA	0.06	0.06				0.07	0.08	0.09	0.10		
12	Water charges		NA	0.01	0.01				0.01	0.02	0.02	0.02		
13	Entertainment		NA	0.07	0.07				0.10	0.11	0.13	0.14		
14	Fees & subscription		NA	0.32	0.32				0.30	0.34	0.38	0.42		
15	Printing & Stationery		NA	0.33	0.33				0.24	0.27	0.30	0.34		
16	Advertisements, exhibition publicity		NA	0.55	0.55				1.56	1.75	1.96	2.19		
17	Contribution/Donations		NA	0.32	0.32				0.00					
18	Training expenses		NA	0.76	0.76				0.00					
19	Miscellaneous Expenses		NA	-0.25	-0.25				-0.51	-0.57	-0.64	-0.72		
20	DSM activities		NA	0	0				0.00					
21	SRPC expenses		NA	0.11	0.11				0.00					
22	Sports and related activities		NA	0.13	0.13				0.00					
23	Freight		NA	0.88	0.88				0.72	0.81	0.90	1.01		
24	Purchase Related Advertisement Expenses		NA	0.45	0.45				0.00					
25	Bank Charges		NA	0	0				0.00					
26	Office Expenses		NA	7.92	7.92				14.92	17.10	19.69	23.14		
27	License Fee and other related fee		NA	2.33	2.33				1.38	1.55	1.73	1.94		
28	Books & periodicals		NA	0.02	0.02				0.00	0.00	0.00	0.00		
29	Others		NA	0.33	0.33				0.15	0.17	0.19	0.21		
30	Purchase Related Expenses		NA	0.49	0.49									
	Distribution of LED		NA	-2.99	-2.99									
31	Gross A&G Expenses		NA	22.7	22.7				29.81	33.81	38.41	44.08		
32	Ele. Duty u/s 3(l), KED Act		NA	0	0				0	0	0.00	0.00		
33	Less: Expenses Capitalised		NA	13	13				0	0	0.00	0.00		
34	Net A&G Expenses		4.59	9.69	9.69				29.81	33.81	38.41	44.08		

Form G 4(c)
Repair & Maintenance Expenses

Name of Generating Business/Licensee: KSEBL/SBU-G

Rs. Crore

S. No.	Particulars	Reference	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22	Remarks
			Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13	14
1	Plant & Machinery		NA	15.43	15.43				16.95	17.80	18.69	19.62	
2	Buildings		NA	2.94	2.94				3.23	3.39	3.56	3.74	
3	Civil Works		NA	4.44	4.44				4.88	5.12	5.38	5.65	
4	Hydraulic Works		NA	3.04	3.04				3.34	3.51	3.68	3.87	
5	Lines & Cable Networks		NA	0.95	0.95				1.04	1.10	1.15	1.21	
6	Vehicles		NA	0.56	0.56				0.62	0.65	0.68	0.71	
7	Furniture & Fixtures		NA	0.08	0.08				0.09	0.09	0.10	0.10	
8	Office Equipment		NA	0.25	0.25				0.27	0.29	0.30	0.32	
9	Gross R&M Expenses		NA	27.7	27.7				30.42	31.94	33.53	35.21	
10	Less: Expenses Capitalised		NA	0	0				0.00	0.00	0.00	0.00	
11	Net R&M Expenses		19.83	27.7	27.70				30.42	31.94	33.53	35.21	

Form G 5.1
Energy Charges for Thermal Generation

Name of the Generating Business/Company
 Name of the Generating Station/Unit :

KERALA STATE ELECTRICITY BOARD LTD.
BDPP

S.No.	Particulars	Units	2016-17				2017-18			2018-19	2019-20	2020-21	2021-22	Remarks
			Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Operational Parameters													
1.1	Total Capacity	MW	MW	63.96										
1.2	Availability	%	%	0										
1.3	PLF	%	%	0										
1.4	Gross Generation	MU	MU	0										
1.5	Auxiliary Energy Consumption	%	%	3.87										
1.6	Auxiliary Energy Consumption	MU	MU	-										
1.7	Net Generation	MU	MU	-						0.48	0.48	0.48	0.48	
1.8	Heat Rate	kcal/kWh	kcal/kWh	2000										
2	Fuel Parameters (for each primary and secondary fuel)													
2.1	Gross Calorific Value													
2.1.1	Fuel 1-----	kcal/unit	kcal/unit	-										
2.2	Landed Fuel Price per unit (Please specify the fuel)		Rs/unit											
2.2.1	Fuel 1-----	Rs/unit												
3	Fuel Consumption and Heat Contribution (for each fuel separately)													
3.1	Specific Fuel Consumption		unit/kWh											
3.1.1	Fuel 1-----	unit/kWh												
3.2	Total Fuel Consumption		unit											
3.2.1	Fuel 1-----	unit												
3.3	Heat Content (each fuel separately)		Million kcal											
3.3.1	Fuel 1 (2.1.1 x 3.1.1)	Million kcal												
	Total Heat Content													
			Rs Crore											
4	Total Fuel Cost		Rs Crore	-	3.53									
4.1.1	Fuel 1----- (2.2.1 x 3.2.1)	Rs Crore												
	Total Fuel Cost	Rs Crore	Rs Crore											
			Rs Crore	-	3.53									
5	Other Charges and Adjustments		Rs/kWh											
5.1.1	Other Charges (pl. specify details)	Rs Crore												
5.1.2	Other Adjustments (Pl. specify details)	Rs Crore	Rs/kWh											
	Total Other Charges and Adjustments	Rs Crore	Rs/kWh											
6	Total Cost (4+5)	Rs Crore												
7	Cost of Generation per unit (at Generation Terminal) (6/1.4)	Rs/kWh												
8	Energy Charge per unit (ex-bus) (6/1.7)													
8.1.1	Fuel 1-----	Rs/kWh												
	Total---(9)	Rs/kWh												

No energy scheduled during the control period

- 1 Submit details of each primary and secondary fuel
- 2 The energy charge should be computed for open cycle operation and combined cycle operation separately in case of gas/liquid fuel fired plants.
- 3 Operational data are to be submitted for each Unit of each station separately

Note: nth year = FY 2014-15, n+1th year = FY 2015-16, and so on, for the first filing under the KSERC Tariff Regulations, 2014

Name of the Generating Business/Company

KSEB LIMITED

Name of the Generating Station/Unit :

KDPP

S.No.	Particulars	Units	2016	
			Approved in Tariff Order	Audited
1	2	3	4	5
1	Operational Parameters			
1.1	Total Capacity	MW	96	-
1.2	Availability	%	0	82.68
1.3	PLF	%	0	80
1.4	Gross Generation	MU	0	38.01
1.5	Auxiliary Energy Consumption	%	1.99	4.39
1.6	Auxiliary Energy Consumption	MU	-	1.67
1.7	Net Generation	MU	-	36.34
1.8	Heat Rate	kcal/kWh	2100	
2	Fuel Parameters (for each primary and secondary fuel)			
2.1	Gross Calorific Value			
2.1.1	Fuel 1-----	kcal/unit		

2.2	Landed Fuel Price per unit (Please specify the fuel)	Rs/MT	-	22444.89
2.2.1	Fuel 1-----	Rs/unit		
3	Fuel Consumption and Heat Contribution (for each fuel separately)			
3.1	Specific Fuel Consumption			
3.1.1	Fuel 1-----	unit/kWh		
3.2	Total Fuel Consumption			
3.2.1	Fuel 1-----	unit		
3.3	Heat Content (each fuel separately)			
3.3.1	Fuel 1 (2.1.1 x 3.1.1)	Million kcal		
	Total Heat Content			
4	Total Fuel Cost		-	17.85
4.1.1	Fuel 1----- (2.2.1 x 3.2.1)	Rs Crore		
	Total Fuel Cost	Rs Crore		
5	Other Charges and Adjustments			
5.1.1	Other Charges (pl. specify details)	Rs Crore		
5.1.2	Other Adjustments (Pl. specify details)	Rs Crore		
	Total Other Charges and Adjustments	Rs Crore		
6	Total Cost (4+5)	Rs Crore	-	17.85
7	Cost of Generation per unit (at Generation Terminal) (6/1.4)	Rs/kWh		

8	Energy Charge per unit (ex-bus) (6/1.7)			
8.1.1	Fuel 1-----	Rs/kWh		
	Total---(9)	Rs/kWh		

No energy scheduled for current control period

Energy Charges for Thermal Generation

6-17		2017-18			2018-19	2019-20
Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Council	(Projected)	(Projected)
6	7	8	9	10	11	12
	-					
	82.68					
	80					
	38.01					
	4.39				0.72	0.72
	1.67					
	36.34					

	22444.89					
	17.85					
	17.85					

[illegible]

[illegible]

Form G 5.2
Fuel Cost Details for Thermal Generation

Name of the Generating Business/Company KSEB LIMITED
Name of the Generating Station/Unit : SBU-G

S. No.	Particulars	Units	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22	Remarks
			Approved in Tariff Order	Audited	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6 = 5 - 4	7	8	9	10	11	12	13	14
1	Basic Cost	Rs/unit	0	25953.03	25953.03								
2	Freight	Rs/unit	0	-	-								
3	Freight Surcharge, if applicable	Rs/unit	0	-	-								
4	Fuel Handling Charges	Rs/unit	0	-	-								
5	Taxes and Duties (pl. specify details)	Rs/unit	0	483.76	483.76								
6	Any other charges	Rs/unit	0	-	-								
7	Total Price excluding Transit Loss	Rs/unit	0	26436.79	26436.79								
			0	-	-								
	Transit Loss	%											
	Total Price including Transit Loss	Rs/unit	0	26436.79	26436.79								

*No energy scheduled during the control period

Form G 6.1
Fixed assets & provisions for depreciation

Name of the Generating Business/Company

KERALA STATE ELECTRICITY BOARD LIMITED

Name of the Generating Station :

SBU-G

Year (2016-17)*

(Rs Crore)

S. No.	Particular	Rate of depreciation %	Gross fixed assets				Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjustment during the year	Cumulative at the end of the year		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights		1480.94	15.17		1496.11	0				1480.94	1496.11
1A	Hydraulic works		1160.33	160.34		1320.67	438.16	96.98		535.14	722.17	785.53
2	Building & Civil works of Power plant		481.78	107.94		589.71	213.85	8.56		222.41	267.93	367.3
3	Plant & machinery including sub-station equipments		13276.87	163.75		13440.62	1423.64	149.51		1573.15	11853.23	11867.47
4	Communication equipment		3.31	0.06		3.37	0.79	2.64		3.43	2.52	-0.06
5	Vehicles		7.2	0.62		7.83	3.35	1.81		5.16	3.85	2.66
6	Furniture & fixtures		3.82	0.42		4.23	2.51	0.59		3.09	1.31	1.14
7	Office Equipments		3.45	0.76		4.21	1.98	0.47		2.46	1.47	1.75
8	Capital spares		0	0			0	0			0	0
9	IT Equipments		5.66	0.27		5.93	1.22	3.48		4.7	4.44	1.23
11	Any other items		6.47	0.9		7.37	4.76	0.58		5.33	1.71	2.04
Total (I) to (11)												
			16429.82	450.22		16880.05	2090.25	153.74		2354.88	14339.57	14525.17

* Note : To be furnished separately for each year commencing from 2016-17 to 2021-22.

Note: Name of the assets should conform to the description of the assets mentioned in the depreciation shedcule under Tariff Regulations

KERALA STATE ELECTRICITY BOARD LIMITED - BUSINESS UNIT - GENERATION

Form G- 6.1 : Fixed Assets and Provisions for Depreciation

No.	Particular	Depreciation %	Gross fixed assets for 2018-19				Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year	Cumulative up to the beginning of the year	Additions during the year	Adjustment during the year	At the end of the year		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights		1454.52	30.43		1484.95	0	0		0	1480.94	1496.11
1A	Hydraulic works		1160.33	26.86		1187.19	438.16	38.29		476.45	722.17	785.53
2	Building & Civil works of Power plant		481.78	11.99		493.77	213.85	15.90		229.75	267.93	367.3
3	Plant & machinery incl sub-station equipment		1287.89	29.52		1317.41	1423.64	66.91		1490.55	11853.23	11867.47
4	Communication equipment		3.31	0.07		3.38	0.79	0.13		0.92	2.52	-0.06
5	Vehicles		7.2	0.16		7.36	3.35	0.29		3.64	3.85	2.66
6	Furniture & fixtures		3.82	0.09		3.91	2.51	0.15		2.66	1.31	1.14
7	Office Equipments		3.45	0.09		3.54	1.98	0.14		2.12	1.47	1.75
9	IT Equipments		5.66	0.12		5.78		0.23		0.23		
11	Lines, Cable Network etc		5.66	0.15		5.81	1.22	0.23		1.45	1.71	2.04
	Total (1) to (12)		4413.62	99.47	0	4513.09	2085.5	122.26	0	2207.76	14339.57	14525.17

KERALA STATE ELECTRICITY BOARD LIMITED - BUSINESS UNIT - GENERATION

Form G- 6.1 : Fixed Assets and Provisions for Depreciation

No.	Particular	Depreciation %	Gross fixed assets for 2019-20				Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year	Cumulative up to the beginning of the year	Additions during the year	Adjustment during the year	At the end of the year		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights		1484.95	139.86		1624.81	0.00			0.00	1480.94	1496.11
1A	Hydraulic works		1187.19	123.46		1310.65	476.45	39.18		515.63	722.17	785.53
2	Building & Civil works of Power plant		493.77	55.13		548.90	229.75	16.29		246.04	267.93	367.3
3	Plant & machinery incl sub-station equipment		1317.41	135.70		1453.11	1490.55	68.35		1558.90	11853.23	11867.47
4	Communication equipment		3.38	0.32		3.69	0.92	0.14		1.06	2.52	-0.06
5	Vehicles		7.36	0.73		8.09	3.64	0.29		3.93	3.85	2.66
6	Furniture & fixtures		3.91	0.40		4.30	2.66	0.16		2.82	1.31	1.14
7	Office Equipments		3.54	0.39		3.93	2.12	0.14		2.26	1.47	1.75
9	IT Equipments		5.78	0.55		6.33	0.23	0.23		0.46	4.44	1.23
11	Lines, Cable Network etc		5.81	0.69		6.50	1.45	0.23		1.68	1.71	2.04
	Total (1) to (12)		4513.09	457.23		4970.32	2207.76	125.01	0	2332.77	14339.57	14525.17

KERALA STATE ELECTRICITY BOARD LIMITED - BUSINESS UNIT - GENERATION

Form G- 6.1 : Fixed Assets and Provisions for Depreciation

No.	Particular	Depreciation %	Gross fixed assets for 2020-21				Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year	Cumulative up to the beginning of the year	Additions during the year	Adjustment during the year	At the end of the year		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights		1624.81	336.13		1960.93	0.00			0.00	1480.94	1496.11
1A	Hydraulic works		1310.65	296.71		1607.36	515.63	43.25		558.88	722.17	785.53
2	Building & Civil works of Power plant		548.90	132.49		681.39	246.04	18.11		264.16	267.93	367.3
3	Plant & machinery incl sub-station equipment		1453.11	326.13		1779.25	1558.90	75.00		1633.90	11853.23	11867.47
4	Communication equipment		3.69	0.76		4.45	1.06	0.15		1.21	2.52	-0.06
5	Vehicles		8.09	1.76		9.85	3.93	0.32		4.26	3.85	2.66
6	Furniture & fixtures		4.30	0.95		5.26	2.82	0.17		2.99	1.31	1.14
7	Office Equipments		3.93	0.95		4.88	2.26	0.16		2.42	1.47	1.75
9	IT Equipments		6.33	1.33		7.67	0.46	0.25		0.71	4.44	1.23
11	Lines, Cable Network etc		6.50	1.66		8.15	1.68	0.26		1.94	1.71	2.04
	Total (1) to (12)		4970.32	1098.86		6069.18	2332.77	137.68	0	2470.45	14339.57	14525.17

KERALA STATE ELECTRICITY BOARD LIMITED - BUSINESS UNIT - GENERATION

Form G- 6.1 : Fixed Assets and Provisions for Depreciation

No.	Particular	Depreciation %	Gross fixed assets for 2021-22				Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year	Cumulative up to the beginning of the year	Additions during the year	Adjustment during the year	At the end of the year		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights		1960.93	203.63		2164.56	0.00			0.00	1480.94	1496.11
1A	Hydraulic works		1607.36	179.75		1787.11	558.88	53.04		611.92	722.17	785.53
2	Building & Civil works of Power plant		681.39	80.26		761.66	264.16	22.49		286.64	267.93	367.3
3	Plant & machinery incl sub-station equipment		1779.25	197.58		1976.83	1633.90	90.98		1724.88	11853.23	11867.47
4	Communication equipment		4.45	0.46		4.91	1.21	0.18		1.38	2.52	-0.06
5	Vehicles		9.85	1.06		10.91	4.26	0.39		4.65	3.85	2.66
6	Furniture & fixtures		5.26	0.58		5.83	2.99	0.21		3.20	1.31	1.14
7	Office Equipments		4.88	0.57		5.45	2.42	0.20		2.61	1.47	1.75
8	IT Equipments		7.67	0.81		8.47	0.71	0.31		1.02	4.44	1.23
11	Lines, Cable Network etc		8.15	1.00		9.16	1.94	0.33		2.26	1.71	2.04
	Total (1) to (12)		6069.18	665.71		6734.89	2470.45	168.12	0	2638.57	14339.57	14525.17

Form G 6.2(a)				
Calculation of Weighted Average Rate of Interest on Actual Loans				
Name of Generating Business/ Company: KSEBL/SBU-G				
PARTICULARS	2018-19	2019-20	2020-21	2021-22
Opening balance	1468.47	1926.78	2890.84	3595.95
Capital works	580.68	1124.63	946.01	276.80
Less Con&Grants	0.00	0.00	0.00	0.00
Borrowings	580.68	1124.63	946.01	276.80
Repayments*	122.37	160.56	240.90	299.66
Closing balance	1926.78	2890.84	3595.95	3573.09
Average loan	1697.62	2408.81	3243.40	3584.52
Interest rate	9.50	10.00	10.00	10.00
Interest for the year	161.27	240.88	324.34	358.45
*Assumed 12 years.				

Note: In this format, details with regard to source wise funding is required to be filled in detail. It is submitted that KSEBL is not in a position to furnish the same as funding arrangements were not made for the works to be executed during control period. Therefore, the details such as additional borrowings, contributions and grants, probable repayment of loan etc for the control period are furnished in the table

Name of Generating Business/Company
Licensed Area of Supply

[illegible]

Form G 6.2 (c)**Interest on Bonds to meet Terminal Liabilities**

Name of Generating Business/Company : KSEBL/SBU-G

(Rs. Cr)

S.N o.	Particulars (specify items)	2016-17			2017-18			2018-19	2019-20	2020-21	2021-22	Remarks
		Approved in Tariff Order	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11	12	13
A	Bond Series 1											
1	Value of Bond							396.7	375.8	355	334.1	
2	Rate of Interest on Bond							10%	10%	10%	10%	
3	Interest on Bond							39.67	37.58	35.5	33.41	
B	Bond Series 2											
4	Value of Bond											
5	Rate of Interest on Bond											
6	Interest on Bond											
C	Bond Series 3											
	...											

Form G 6.3
Details of Project Specific Loans

Name of the Generating Business/Company : _____

Name of the Generating Station : _____

Commercial Operation Date : _____

Particulars	Year (2016-17)*					Rs. Crore
	Package 1	Package 2	Package 3	Package 4	Package 5	Package 6
1	2	3	4	5	6	7
Source of Loan ¹						
Currency ²						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto previous year/during current/ensuing year/COD ^{3,4,5,13,15}						
Interest Type ⁶						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest ⁷						
Margin, if Floating Interest ⁸	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Are there any Caps/Floor ⁹						
If above is yes,specify caps/floor						
Moratorium Period ¹⁰						
Moratorium effective from						
Repayment Period ¹¹						
Repayment effective from						
Repayment Frequency ¹²						
Repayment Instalment ^{13,14}						
Base Exchange Rate ¹⁶						

¹ Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

² Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.

³ Details are to be submitted as at the end of previous year for existing assets and as on COD for the remaining assets.

⁴ Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.

⁵ If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the same form.

⁶ Interest type means whether the interest is fixed or floating.

⁷ Base rate means the base as MCLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be

⁸ Margin means the points over and above the floating rate.

⁹ At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

¹⁰ Moratorium period refers to the period during which loan servicing liability is not required.

¹¹ Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

¹² Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

¹³ Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment may also be given separately

¹⁴ If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be furnished

¹⁵ In case of Foreign loan date of each drawal & repayment alongwith exchange rate at that date may be given.

¹⁶ Base exchange rate means the exchange rate prevailing at the end of previous year for existing assets and as on COD for the remaining assets.

*** Note : To be furnished separately for each year commencing from 2016-17 till 2021-22.**

Form G 6.4

Consolidated report on additions to Fixed Assets during the year

Name of the Generating Business/Company : _____
 Name of the Generating Station : _____

(Rs. in Crore)

Sr. No.	Asset Description	Asset Code	2016-17							2017-18							2018-19						
			(Actuals/audited)							(Actuals & Estimated)							(Projected)						
			Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissioning	Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissioning	Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissioning
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	11	12	13	14	15	16	17
1	Land & Land Rights	10.1	...	...	...	...	...	15.17															
2	Buildings	10.2	...	...	...	...	...	63.58															
3	Hydraulic Works	10.3	...	...	...	...	...	160.34															
4	Other Civil Works	10.4	...	...	...	...	...	44.35															
5	Plant & Machinery	10.5	...	...	...	...	...	163.81															
6	Lines, Cable, Network etc.	10.6	...	...	...	...	...	0.9															
7	Vehicles	10.7	...	...	...	...	...	0.62															
8	Furniture & Fixtures	10.8	...	...	...	...	...	0.42															
9	Office Equipments	10.9	...	...	...	...	...	1.03															
								450.22															

Name of the Generating E
Name of the Generating S

Sr. No.	Asset Description	2019-20							2020-21							2021-22						
		(Projected)							(Projected)							(Projected)						
		Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissionin g	Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissionin g	Cost	Interest	Finance Charges	Pre-Operativ e	Exchang e fluctuati	Total	Date of commiss ioning
1	2	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
1	Land & Land Rights																					
2	Buildings																					
3	Hydraulic Works																					
4	Other Civil Works																					
5	Plant & Machinery																					
6	Lines, Cable, Network etc.																					
7	Vehicles																					
8	Furniture & Fixtures																					
9	Office Equipments																					

Form G 6.5

Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects

Name of the Generating Business/Company : _____

Name of the Power Station : _____

New Projects

Capital Cost Estimates

Board of Director/ Agency approving the Capital cost estimates:							
Date of approval of the Capital cost estimates:							
	Present Day Cost			Completed Cost			
Price level of approved estimates	As of End of _____ Qtr. Of the year _____			As on Scheduled COD of the Station			
Foreign Exchange rate considered for the Capital cost estimates							
Capital Cost excluding IDC & FC							
Foreign Component, if any (In Million US \$ or the relevant Currency)							
Domestic Component (Rs. Cr.)							
Capital cost excluding IDC & FC (Rs. Cr)							
IDC & FC							
Foreign Component, if any (In Million US \$ or the relevant Currency)							
Domestic Component (Rs. Cr.)							
Total IDC & FC (Rs.Cr.)							
Rate of taxes & duties considered							
Capital cost Including IDC & FC							
Foreign Component, if any (In Million US \$ or the relevant Currency)							
Domestic Component (Rs. Cr.)							
Capital cost Including IDC & FC (Rs. Cr)							
Schedule of Commissioning							
COD of Unit-I/Block-I							
COD of Unit-II/Block-II							

COD of last Unit/Block							

Note:

1. Copy of approval letter should be enclosed.
2. Details of Capital cost are to be furnished in relevant forms
3. Details of IDC & Financing Charges are to be furnished in relevant form

Form G 6.6
Break-up of Capital Cost for Thermal projects

Name of the Generating Business/Company:

Name of the Generating Station:

Rs. Crore.

S.No.	Break Down	Cost in Rs. Crores			Variation (Rs. Cr.)	Reasons for Variation	Admitted Cost (Rs. Cr.)
		As per original Estimates	Actual Expenditure as on COD	Liabilities/ Provisions			
1	2	3	4	5	6	7	8
1.0	Land & Site Development						
2.0	Access road						
3.0	Temporary construction and enabling works						
4	Water storage system						
5.0	Water transportation system						
6.0	Railway system						
7.0	Steam generator / Boiler Island						
8.0	Steam Turbine Generator island including taxes, duties etc.						
9.0	Balance of Plant						
9.1	Mechanical BOP						
9.1.1	Coal handling system / fuel handling system and storage						
9.1.2	Ash handling system						
9.1.3	CW System						
9.1.4	DM Plant						
9.1.5	Raw water system						
9.1.6	Effluent treatment Plant						
9.1.7	Station Piping System						
9.1.8	Fire Fighting System						
9.1.9	Compressed Air System						
9.1.10	Air Conditioning and Ventilation System						
9.1.11	Misc. items including EOT cranes, hoist and elevators etc.						
9.1.12	Tax, Duties, F&I						
9.1.13	Spares						
9.2	Electrical BOP						
9.2.1	Power Transformers						
9.2.2	Switchyard						
9.2.3	Bus Duct						
9.2.4	HT Switchgear						
9.2.5	LT Switchgear						
9.2.6	DC Power System						
9.2.7	Power and Control Cables						

Form G 6.6
Break-up of Capital Cost for Thermal projects

Name of the Generating Business/Company: _____

Name of the Generating Station: _____

Rs. Crore.

S.No.	Break Down	Cost in Rs. Crores			Variation (Rs. Cr.)	Reasons for Variation	Admitted Cost (Rs. Cr.)
		As per original Estimates	Actual Expenditure as on COD	Liabilities/ Provisions			
1	2	3	4	5	6	7	8
9.2.8	Control and Relay Panels						
9.2.9	Station Lighting						
9.2.10	DG Set						
9.2.11	Electrical equipment erection, cabling and grounding						
9.2.12	Other Misc. items						
9.2.13	Taxes, Duties and F&I						
9.2.14	ETC and spares						
9.3	Total BOP Civil Works						
9.3.1	Main Power house building						
9.3.2	Plant water system						
9.3.3	Chimney						
9.3.4	Permanent Township						
9.3.5	Ash dyke						
9.3.6	Misc. plant buildings						
9.3.7	Temporary sheds						
10.0	Control and Instrumentation						
11.0	Operator Training						
12.0	Start up fuel						
13.0	Construction insurance						
14.0	Special T&P						
15.0	Total Cost of Works (sum of items 1 to 15 above)						
16.0	Overheads						
16.1	Development Expenses						
16.2	Legal Expenses						
16.3	Establishment/ Construction supervision						
16.4	Consultancy and Engineering						
16.5	Audit and Account						
16.6	Contingency						
16.7	Sub-total of Item 16						
17.0	Capital cost excluding IDC & FC						
18	Interest During Construction (IDC)						
19	Financing Charges (FC)						
20.0	Capital cost including IDC & FC						
21	Cost per MW						
Note: 1. Above list is illustrative 2. In case of time & Cost over run, a detailed note giving reasons of such time and cost over run should be submitted clearly bring out the agency responsible and whether such time & cost over run was beyond the control of the generating company.							

Form G 6.7

Break-up of Construction / Supply / Service packages

Name of the Generating Business/Company :

KSEB LIMITED

Name of the Generating Station :

SBU-G

S.No.	Name/No. of Construction / Supply / Service Package	Scope of works ¹ (in line with head of cost break-ups as applicable)	Whether awarded through ICB/DCB/ Depatmentally/ Deposit Work	No. of bids received	Date of Award	Date of Start of work	Date of Completion of Work	Value of Award ² in (Rs. Cr.)	Firm or With Escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier(Rs.Cr.)	Taxes & Duties and Pre-operative Expenses	IDC, FC, FERV & Hedging cost	Variation (Rs.Cr.)	Variation on account of change in Price (Rs. Cr.)	Reason for change in Price	Variation on account of change in Scope of Work (Rs. Cr.)	Reason for Change in Scope of Work
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
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¹ The scope of work in any package should be indicated in conformity of Capital cost break-up for the coal/lignite based plants to the extent possible. In case of Gas/Liquid fuel based projects, break down in the similar manner in the relevant heads.

² If there is any package, which need to be shown in Indian Rupee and foreign currency(ies), the same should be shown separately alongwith the currency, the exchange rate and the date e.g. Rs.80 Cr+US\$50m=Rs.280Cr at US\$=Rs40 as on say 4.1.1999.

Form G 6.8

Draw Down Schedule for Calculation of IDC & Financing Charges (year wise from commencement of works to COD)

Name of the Generating Business/Company:

KSEB LIMITED

Name of the Generating Station :

SBU-G

Rs. Crore

S.No.	Draw Down	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
	Particulars	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Loans												
1.1	Foreign Loans												
1.1.1	Foreign Loan 1												
	Draw down Amount												
	IDC												
	Financing charges												
1.1.2	Foreign Loan 2												
	Draw down Amount												
	IDC												
	Financing charges												
1.1.3	Foreign Loan 3												
	Draw down Amount												
	IDC												
	Financing charges												
1.1.4	--												
	--												
	--												
1.1	Total Foreign Loans												
	Draw down Amount												
	IDC												
	Financing charges												

Form G 6.8

Draw Down Schedule for Calculation of IDC & Financing Charges (year wise from commencement of works to COD)

KSEB LIMITED

Name of the Generating Business/Company:

Name of the Generating Station :

SBU-G

Rs. Crore

S.No.	Draw Down	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
	Particulars	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.2	Indian Loans												
1.2.1	Indian Loan 1												
	Draw down Amount	--	--		--	--		--	--		--	--	
	IDC	--	--		--	--		--	--				
	Financing charges	--	--		--	--		--	--				
1.2.2	Indian Loan 2												
	Draw down Amount	--	--		--	--		--	--				
	IDC	--	--		--	--		--	--				
	Financing charges	--	--		--	--		--	--				
1.2.3	Indian Loan 3												
	Draw down Amount	--	--		--	--		--	--				
	IDC	--	--		--	--		--	--				
	Financing charges	--	--		--	--		--	--				
1.2.4	--	--	--		--	--		--	--				
	--	--	--		--	--		--	--				
	--	--	--		--	--		--	--				
1.2	Total Indian Loans												
	Draw down Amount	--	--		--	--		--	--				
	IDC	--	--		--	--		--	--				
	Financing charges	--	--		--	--		--	--				
1	Total of Loans drawn												
	IDC												
	Financing charges												
2	Equity												
2.1	Foreign equity drawn												
2.2	Indian equity drawn	--	--		--	--		--	--				
	Total equity deployed												

Note: Drawal of debt and equity shall be on paripassu basis to meet the commissioning schedule. Drawal of higher equity in the beginning is permissible.

Form G 6.9

Return on Equity/Return on Net Fixed Assets

Name of the Generating Business/Company:

KERALA STATE ELECTRICITY BOARD LIMITED

Name of the Generating Station :

SBU-G

Rs. Crore

S.No.	Particulars	Reference	2016-17				2017-18			2018-19	2019-20	2020-21	2021-22	Remarks
			Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)	(Projected)	(Projected)	(Projected)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Equity at the beginning of the year					1454.5								
2	Capitalisation													
3	Equity portion of capitalisation													
4	Equity at the end of the year					1454.5								
	Return Computation					203.63								
5	Return on Equity at the beginning of the year	14%*(1)				0								
6	Return on Equity portion of capitalisation (on pro-rata basis)	14%*(3)/2				203.63								
7	Total Return on Equity	(5)*(6)								116.38	116.38	116.38	116.38	

Form G 6.10

Statement of Additional Capitalisation after COD and Details for Financing

Name of the Generating Business/Company:

Name of the Generating Station :

COD

(Rs. Crore)

[illegible]

¹ In case the project has been completed and any tariff notification(s) has already been issued in the past by GOL, give the cost as admitted for the purpose of tariff notification already issued by (Name of the authority) (Enclose copy of the tariff Order)

Note:

1 Fill the form in chronological order year wise along with detailed justification clearly bring out the necessity and the benefits accruing to the beneficiaries.

2 In case initial spares are purchased alongwith any equipment, then the cost of such spares should be indicated separately. e.g. Rotor - 50 Crs. Initial spares- 5 Crs.

Form G 6.11
Interest on Working Capital

Name of the Generating Business/Company
Name of the Generating Station :

KERALA STATE ELECTRICITY BOARD LIMITED
SBU-G

Rs. Crore

S. No.	Particulars	2016-17				2017-18			2018-19	2019-20	2020-21	2021-22	Remarks
		Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	Projected	Projected	Projected	Projected	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Fuel cost (as per norms)	NA	1.95	NA	1.95								
2	Liquid fuel stock (as per norms)	NA	...	NA	...								
3	O & M expenses (as per norms)	NA	17.53	NA	17.53				10.66	12.70	14.72	17.65	
4	Maintenance Spares (as per norms)	NA	44.41	NA	44.41				44.14	45.13	49.70	60.69	
5	Receivables (as per norms)	NA	54.94	NA	54.94								
	Total Working Capital	NA	118.83	NA	118.83				54.79	57.83	64.42	78.34	
	Rate of Interest (as per norms)	NA	13%	NA	13%				10.70%	10.70%	10.70%	10.70%	
	Interest on Working Capital	NA	15.45	NA	15.45				5.86	6.19	6.89	8.38	

Form G 6.12

Tax on ROE

Name of the Generating Business/Company:

KERALA STATE ELECTRICITY BOARD LIMITED

Name of the Generating Station :

SBU-G

Rs.

S. No.	Particulars	2016-17			2017-18	2018-19	2019-20	2020-21	2021-22	Remarks
		Approved in Tariff Order	Audited	Truing Up requirement	Actual/ Estimated	Projected	Projected	Projected	Projected	
1	2	3	4	5 = 4 - 3	6	7	8	9	10	11
A)	Advance Tax assessed & deposited on									
a)	for Quarter I & deposited on 15 th June.									
b)	for Quarter II & deposited on 15 th Sept.									
c)	for Quarter III & deposited on 15 th Dec.		Nil							
d)	for Quarter IV & deposited on 15 th March.									
	Total---(A)									

Note:- Tax calculated should be only for the generation business and should not include income from any other income stream like efficiency gain & incentive etc.

FORM G 6.13
INFLOW REVIEW WATER YEAR
KSEBL/SBU-G

Name of the Generating Business/Company:

No.	Year	June	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
1	1998-99	678.7	1476.49	2357.6	1036.91	1243.8	694.7	457.53	157.27	118	94.11	96.03	421.89	8833.03
2	1999-00	1046.46	1416.49	973.6	441.59	1198.43	451.57	197.19	130.38	148	82.9	104	98.6	6289.21
3	2000-01	835.07	946.1	2199.13	789.14	502.59	227.58	198.97	153.05	80.74	47.5	162.21	127.2	6269.28
4	2001-02	1062.21	1765.9	1079.95	501.1	865.14	712.89	231.18	116.03	86.99	81.26	71.06	161.75	6735.46
5	2002-03	489.76	750.9	1255.86	322.19	585.44	391.14	134.13	78.51	63.04	63.21	52.63	81.22	4268.03
6	2003-04	304.74	748.03	916.01	376.53	983.43	325.98	160	91.92	78.81	39.28	58.56	426.2	4509.49
7	2004-05	1401.61	986.94	1436.86	510.74	716.44	464.39	208.73	155.27	70.42	72.18	109.3	99.29	6232.17
8	2005-06	569.38	2261.04	1252.98	1475.76	715.88	714.76	442.33	217.85	110.07	170.31	154.37	434.29	8519.02
9	2006-07	725.23	1596.83	1117.81	963.41	1009.56	907.56	253.21	164.44	90.93	111.6	123.39	113.14	7177.11
10	2007-08	1002.94	2797.48	1499.21	1700.29	1095.25	596.39	283.09	140.5244	126.85	214.1	180.18	132.23	9768.534
11	2008-09	433.63	1144.88	1358.87	962.98	629.358	297.351	169.3	69.864	44.425	78.414	65.672	115.774	5370.518
12	2009-10	330.869	2023.7	779.469	1147.562	898.7	642.91	242.242	128.347	76.47	81.11	102.159	128.296	6581.834
13	2010-11	800.02	1407.075	1175.575	818.336	921.176	651.47	364.2	167.411	122.624	103.11	208.129	136.99	6876.116
14	2011-12	1236.187	1318.659	1654.185	1192.892	592.55	587.895	262.645	127.97	88.15	90.26	132.78	94.84	7379.013
15	2012-13	340.07	726.86	893.79	744.06	435.67	245.57	102.811	53.308	35.017	76.89	75.527	65.056	3794.629
16	2013-14	1642.94	2392.97	1895.437	1164.5	634.76	441.3921	213.8418	120.2269	68.19692	96.71712	88.4	180.09	8939.472
17	2014-15	583.25	1678.1	1798.89	1034.02	843.43	540.03	273.58	143.588	79.231	113.477	241.44	255.403	7584.439
18	2015-16	1053.951	1106.827	829.56	614.38	619.18	605.9906	420.6586	148.6973	92.3638	86.8715	90.83459	107.8894	5777.203
19	2016-17	582.8727	1105.091	748.0352	393.7508	267.5849	152.9335	81.91116	57.87296	40.62692	94.89989	70.59566	107.4584	3703.633
20	2017-18	569.72	633.92	1323.47	1269.17	706.25	487.89	326.86	110.03	68.37	113.65	122.9	242.448	5973.353
	2018-19G	1569.08	3146.6	4471.27	668.14	--	--	--	--	--	--	--	--	
21	2018-19N	1460.22	2461.9	492.56	455.14	936.87	465.34	245.81	112.73	71.55	93.54	119.84	143.42	7058.94
22	2019-20	860.01	1485.51	1159.1	883.38	685.62	482.14	253.46	117.02	74.26	95.05	125.26	146.19	6366.99
23	2020-21	912.92	1431.69	1197.06	856.96	664.31	466.07	254.58	115.88	74.04	96.45	127.57	147.98	6345.51
24	2021-22	924.21	1434.15	1199.21	860.83	638.62	447.53	243.62	110.73	69.18	95.78	119.51	149.08	6292.45

The actual inflow is taken upto Sep-2018 and the Oct -2018 has been calculated based on the actual available inflow and thereafter 10 years average is taken for projection.2018-19G- Gross actual Inflow received in the Reservoirs; 2018-19N*- Net inflow in the reservoirs considering spill*

Form G 6.14

Month wise inflow in MM³

Name of the Generating Business/Company:

KERALA STATE ELECTRICITY BOARD LIMITED/SBU-G

Name of the Hydro Generating Station :

IDUKKI

No	Month	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
1	June	113.61	89.88	236.06	343.92	101.66	433.49	155.64	255.67	145.2	158.74	387.53	230.78	244.87
2	July	277.21	471.72	355.98	353.51	196.43	638.59	401.27	277.95	270.18	136.55	803.37	390.55	382.44
3	Aug	333.59	170.04	322.9	424.47	197.2	510.27	481.32	178.13	153.63	316.74	301.17	305.59	319.14
4	Sep	264.44	277.41	217.75	275.43	175.3	333.38	241.91	140.09	78.8	352.03	95.65	218.77	212.91
5	Oct	131.63	196.01	245.93	138.26	88.33	175.19	200	147.67	54.72	161.51	153.93	156.16	152.17
6	Nov	59.94	119.08	164.59	128.29	45	90.99	143.44	118.55	21.54	84.22	97.57	101.33	99.55
7	Dec	26.21	39.83	74.02	48.2	11.62	31.09	36.68	85.42	5.81	48.26	40.71	42.16	42.4
8	Jan	5.34	16.1	27.17	22.61	1.35	19.89	15.98	17.6	3.14	13.08	14.23	15.11	15.02
9	Feb	2.67	13.81	28.98	15.15	0	7.46	8.69	13.31	4.19	7.08	10.13	10.88	10.59
10	Mar	17.29	17.19	21.97	23.17	10.83	18.4	16.42	14.19	18.69	20.24	17.84	17.89	17.96
11	Apr	13.21	23.27	64.08	28.18	32.42	22.28	73.02	16.5	15.33	22.39	31.07	32.85	33.81
12	May	30.24	36.62	50.24	20.95	34.5	52.1	69.34	27.24	21.37	66.49	40.91	41.98	42.51
	Total	1275.38	1470.96	1809.65	1822.15	894.64	2333.14	1843.71	1292.31	792.6	1387.34	1994.09	1564.06	1573.37

The actual inflow considering spill is taken upto Sep-2018 and thereafter 10 years average is taken for projection upto 2021-22

Form G 6.14

Month wise inflow in MM³

Name of the Generating Business/Company:

KERALA STATE ELECTRICITY BOARD LIMITED/SBU-G

Name of the Hydro Generating Station :

PAMBA&KAKKI

No	Month	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
1	June	31.9	35.9	82.6	136.6	26.9	193.1	55	110.7	67.3	63.4	173.0761	94.5	100.3
2	July	126.3	205.9	187.2	142	68.9	246.7	176.5	110.2	117.3	49.1	315.5122	161.9	157.5
3	Aug	142.1	94.2	140.5	170	95.1	178.9	184.5	94.4	76.1	151.9	76.7035	126.2	129.4
4	Sep	102.6	134.9	89.8	126.8	75.3	136.1	103.9	58.7	37.1	145.6	57.2	96.6	92.7
5	Oct	87.7	108.1	104	67.6	65.5	81.9	99	72.9	25.1	75.7	78.7	77.8	74.8
6	Nov	45.2	107.2	82.7	89.8	30.1	71	71	100.8	28.8	87.9	71.4	74.1	70.8
7	Dec	28.8	34.8	57.5	42.1	18	41	41.4	67.4	18.3	58.6	40.8	42	42.7
8	Jan	14.1	20.8	35.4	19	10.2	21.4	17.2	20.6	12	16.7	18.7	19.2	19.1
9	Feb	14.2	13.3	19.1	16.3	9.6	13.2	13.2	12.8	7.8	10.1	13	12.8	12.8
10	Mar	13.8	18.2	22.2	19.4	16.5	21.2	21	14.1	14.2	22.6	18.3	18.8	18.8
11	Apr	12.1	18.1	30.1	18.1	16.4	14.4	33	16.5	9.2	24.2	19.2	19.9	20.1
12	May	19.8	16	13	16	19.6	24.1	28.2	12.6	13.2	25.3	18.8	18.7	18.9
	Total	638.5	807.4	864.1	863.9	452.1	1043.1	843.9	691.7	426.4	731.2	901.5	762.5	758

The actual inflow considering spill is taken upto Sep-2018 and thereafter 10 years average is taken for projection upto 2021-22

Form G 6.14

Month wise inflow in MM³

Name of the Generating Business/Company:

KERALA STATE ELECTRICITY BOARD LIMITED/SBU-G

Name of the Hydro Generating Station :

IDAMALAYAR

No	Month	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
1	June	88.67	50.53	150.43	231.2	60.37	358.03	99.86	200.31	104.58	88.4	316.1882	165.99	177.54
2	July	238.25	478.43	292.94	309.24	146.06	543.18	363.47	229.08	245.55	146.9	628.0438	338.29	324.27
3	Aug	266.16	192.68	255.7	396.6	226.47	388.83	455.61	165.35	148.62	280.3	148.385	265.85	273.17
4	Sep	205.77	305.87	189.97	335.8	178.51	255.04	251.1	103.81	84.12	293.67	31.96	202.98	192.69
5	Oct	105.93	201.57	240.4	88.52	55.88	132.12	186.49	88.63	56.55	118.1	127.42	129.57	122.37
6	Nov	38.66	85.26	202.75	87.56	37.43	59.63	69.33	52.69	20.71	46.85	70.09	73.23	72.03
7	Dec	17.6	30.05	61.04	39.16	13.69	25.83	39.73	42.75	15.56	22.95	30.84	32.16	32.37
8	Jan	12.93	21.63	33.26	22.2	4.99	17.6	17.1	15.58	9.47	19.05	17.38	17.83	17.45
9	Feb	8	13.03	15.87	17.08	6.48	15.26	13.91	10.32	5.27	9.86	11.51	11.86	11.74
10	Mar	5.25	10.07	10.01	15.76	2.63	10.18	15.16	10.2	14.8	7.92	10.2	10.69	10.75
11	Apr	2.66	7.61	14.72	7.61	9.46	10.01	22.04	1.96	2.33	2.94	8.13	8.68	8.79
12	May	6.35	7.51	5.69	7.51	16.61	11.27	21.89	13.01	11.88	19.7	12.14	12.72	13.24
	Total	996.22	1404.23	1472.78	1558.25	758.58	1826.98	1555.69	933.69	719.43	1056.66	1412.28	1269.86	1256.42

The actual inflow considering spill is taken upto Sep-2018 and thereafter 10 years average is taken for projection upto 2021-22

Form G 6.14

Month wise inflow in MM³

Name of the Generating Business/Company:

KERALA STATE ELECTRICITY BOARD LIMITED/SBU-G

Name of the Hydro Generating Station :

KUTTIADI

No	Month	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
1	June	79.88	28.39	72.44	140.28	33.63	177.64	78.76	116.48	56.91	60.97	161.1637	92.67	99.09
2	July	122.26	258.89	126.01	151.65	102.42	260.12	249.81	115.52	103.16	98.21	197.851	166.36	157.11
3	Aug	112.83	77.17	105.13	155.65	138.61	107.89	125.44	76.03	91.57	130.21	85.81404	109.35	112.57
4	Sep	59.3	72.98	72.43	99.29	92.69	82.32	84.79	40.84	50.64	84.97	27.54	70.85	70.64
5	Oct	57.37	52.77	34.81	29.59	21.61	41.74	45.48	33.69	23.34	41.61	38.2	36.28	34.63
6	Nov	16.42	23.84	21.34	18.11	18.26	19.92	19.06	19.56	9.03	15.45	18.1	18.27	17.71
7	Dec	10.88	15.03	10.58	12.3	7.84	13.6	10.18	9.28	4.8	9.38	10.39	10.34	9.87
8	Jan	5.42	13.2	9.34	10.88	7.64	10.17	7.97	9.59	8.3	4.54	8.7	9.03	8.62
9	Feb	0.08	6.56	8.52	8.39	2.71	9.02	9.21	9.41	5.44	8.21	6.76	7.42	7.51
10	Mar	10.43	7.32	8.27	3.59	12.17	7.55	10.69	10.69	10.91	11.46	9.31	9.19	9.38
11	Apr	9.92	7.85	9.85	7.85	7.34	8.48	11.8	7.79	8.91	9.2	8.9	8.79	8.89
12	May	6.18	9.34	6.16	9.34	11.39	9.03	17.42	9.42	15.77	19.72	11.38	11.9	12.15
	Total	490.96	573.34	484.88	646.92	456.32	747.47	670.61	458.31	388.78	493.92	584.09	550.46	548.18

The actual inflow considering spill is taken upto Sep-2018 and thereafter 10 years average is taken for projection upto 2021-22

KERALA STATE ELECTRICITY BOARD LIMITED

SBU-G

YEAR-2018-19

[illegible]

Maintenance Schedule and net hydro capacity available (MW)

KERALA STATE ELECTRICITY BOARD LIMITED

YEAR-2019-20

				Unit #1		Unit #2		Unit #3		Unit #4		Unit #5		Unit #6	
No	Name of Station	Installed Capacity (MW)		From	To	From	To	From	To	From	To	From	To	From	To
1	Idukki	6 X130	780	R&M till March 2020		01.10.2018	05.05.2019	01.06.2019	30.06.2019	01.08.2019	31.08.2019	01.10.2019	31.10.2019	01.11.2019	30.11.2019
2	Sabarigiri	4x55+2x60	340	Sep-19		Oct-19		Aug-19		Jun-19		Jul-19		Nov-19	
3	Kuttiyadi	3x25+1x50+2x50	225	06.01.2020	30.01.2020	Sep-19	Apr-20			01.04.2019	30.04.2019	03.05.2019	30.05.2019	03.02.2020	28.02.2020
4	Lower Periyar	3x60	180	01.05.2019	30.05.2019	01.02.2020	03.03.2020	01.01.2020	31.01.2020						
5	Neriamangalam	3x17.55+1x25	77.65	Jan-20		Apr-19		May-19		Feb-20					
6	Idamalayar	2x37.5	75	15.06.2019	14.07.2019	12.10.2019	10.11.2019								
7	Sholayar	3x18	54	Feb-19				Jun-19							
8	Kakkad	2x25	50	01.01.2020	30.01.2020	01.02.2020	02.03.2020								
9	Sengulam	4x12	48	Jan-20		Feb-20		Apr-19		May-19					
10	Poringal+PLBE	4X9+1X16	52	Dec-19		Mar-20		Apr-19		May-19		15.01.2020	15.02.2020		
11	Pallivasal	3x5+3x7.5	37.5	May-19		Mar-20		Apr-19		Jan-20		Feb-20		Dec-19	
12	Panniyar	2x16	32	Apr-19		Jan-20									
13	Kallada	2x7.5	15	Jun-19		Jul-19									
14	Malankara	3x3.5	10.5	01.11.2019	30.11.2019	01.12.2019	30.12.2019	1.10.2019	31.10.2019						
15	Poozhithode	3X1.6	4.8	Apr-19		Mar-20		Feb-20							
16	LMeenmutty	(1X0.5+2 X1.5)	3.5	Feb-20		Mar-20		Apr-19							
17	Peppara	1X3	3	Jun-19											
18	Mattupetty	1x2	2	Aug-19											
19	Malampuzha	1 x2.5	2.5	Sep-19											
20	KTR	1.25X3	3.75	Apr-19		Jan-20		Feb-20							
21	Chembukadavu-1	(3 x0.9)	2.7	Jan-20		Jan-20		Feb-20							
22	Chembukadavu-2	(3X1.25MW)	3.75	Feb-20		Mar-20		Apr-19							
23	Urumi-1	(3X1.25 MW)	3.75	Jan-20		Jan-20		Feb-20							
24	Urumi-2	(3X0.8MW)	2.4	Feb-20		Mar-20		Apr-19							
25	Ranni-Perinadu	(2X2.25MW)	4	Apr-19		Mar-20									
26	Peechi	(1 x1.25 MW)	1.25	May-19	Jun-19										
27	Vilangad	2.5MWx3	7.5	Feb-20		Mar-20		Apr-19							
28	Adyanpara	(1X0.5+1.5X2)	3.5	Apr-19	May-19	Apr-19	May-19	Apr-19	May-19						
29	Chimmoney	2.5 MW	2.5	May-19	Sep-19										
	Sub Total (Hydel)		2046.15												

Form G 6.15

Maintenance Schedule and net hydro capacity available (MW)

Name of the Generating Business/Company:

KERALA STATE ELECTRICITY BOARD LIMITED

Name of the Generating Station :

SBU-G

YEAR-2020-21

No	Name of Station	Installed Capacity (MW)		Unit #1		Unit #2		Unit #3		Unit #4		Unit #5		Unit #6	
				From	To	From	To	From	To	From	To	From	To	From	To
1	Idukki	6 X130	780	01.06.2020	30.06.2020	01.07.2020	31.07.2020	01.08.2020	31.08.2020	01.09.2020	30.09.2020	01.10.2020	31.10.2020	01.11.2020	30.11.2020
2	Sabarigiri	4x55+2x60	340	Sep-20		Oct-20		Aug-20		Jun-20		Jul-20		Nov-20	
3	Kuttiyadi	3x25+1x50+2x50	225	May-20	Dec-20			04.11.2020	30.11.2020	01.04.2020	30.04.2020	04.05.2020	30.05.2020	01.02.2021	26.02.2021
4	Lower Periyar	3x60	180	01.05.2020	30.05.2020	01.02.2021	03.03.2021	01.01.2021	31.01.2021						
5	Neriamangalam	3x17.55+1x25	77.65	Jan-21		Apr-20		May-20		Feb-21					
6	Idamalayar	2x37.5	75	15.06.2020	14.07.2020	12.10.2020	10.11.2020								
7	Sholayar	3x18	54	Jun-20		Jul-20		Aug-20							
8	Kakkad	2x25	50	01.01.2021	30.01.2021	01.02.2021	02.03.2021								
9	Sengulam	4x12	48	Jan-21		Feb-21		Apr-20		May-20					
10	Poringal+PLBE	4X9+1X16	52	Dec-20		Mar-21		Apr-20		May-20		15.01.2021	15.02.2021		
11	Pallivasal	3x5+3x7.5	37.5	May-20		Mar-21		Apr-20		Jan-21		Feb-21		Dec-20	
12	Panniyar	2x16	32	Apr-20		Jan-21									
13	Kallada	2x7.5	15	Jun-20		Jul-20									
14	Malankara	3x3.5	10.5	01.11.2020	30.11.2020	01.12.2020	30.12.2020	1.10.2020	30.10.2020						
15	Poozhithode	3X1.6	4.8	Apr-20		Mar-21		Feb-21							
16	LMeenmutty	(1X0.5+2 X1.5)	3.5	Feb-21		Mar-21		Apr-20							
17	Peppara	1X3	3	Jun-20											
18	Mattupetty	1x2	2	Aug-20											
19	Malampuzha	1 x2.5	2.5	Sep-20											
20	KTR	1.25X3	3.75	Apr-20		Jan-21		Feb-21							
21	Chembukadavu-1	(3 x0.9)	2.7	Jan-21		Jan-21		Feb-21							
22	Chembukadavu-2	(3X1.25MW)	3.75	Feb-21		Mar-21		Apr-20							
23	Urumi-1	(3X1.25 MW)	3.75	Jan-21		Jan-21		Feb-21							
24	Urumi-2	(3X0.8MW)	2.4	Feb-21		Mar-21		Apr-20							
25	Ranni-Perinadu	(2X2.25MW)	4	Apr-20		Mar-21									
26	Peechi	(1 x1.25 MW)	1.25	May-20	Jun-20										
27	Vilangad	2.5MWx3	7.5	Feb-21		Mar-21		Apr-20							
28	Adyanpara	(1X0.5+1.5X2)	3.5	Apr-20	May-20	Apr-20	May-20	Apr-20	May-20						
29	Chimmony	2.5 MW	2.5	May-20	Sep-20										

Maintenance Schedule and net hydro capacity available (MW)

KERALA STATE ELECTRICITY BOARD LIMITED**YEAR-2021-22**[illegible]

Form G 7.1
Proposed improvement in performance

Name of the Generating Business/Company
Name of the Generating Station :

KERALA STATE ELECTRICITY BOARD LIMITED
SBU-G

Rs. Crore

S.No.	Particulars	2016-17				2017-18			MYT Control Period				Remarks
									2018-19	2019-20	2020-21	2021-22	
		Approved in Tariff Order	Audited	Normative	Truing Up requirement	Apr-Sep (Actual)	Estimated for the year	Approved by the Commission	(Projected)				
1	2	3	4	5	6	7	8	9	10	11		12	13
1	Plant load factor (%)												
2	Auxiliary consumption (%)												
3	Specific fuel consumption												
(I)	coal, kg / kWh												
ii)	gas, SCM / kWh												
(iii)	oil, ml / kwh												
(iv)	Limestone kg / kWh												
(v)	any other fuel												
4	Station heat rate, (kcal / kwh)												
5	Annual Maitenance shut down days												
6	Forced / planned shut down except annual shut down												
(I)	number / year												
(ii)	cumulative duration, hours / year												
7	Fly ash utilisation, %												
8	Other by-product utilisation(give list)												
9	Outstanding dues, days of receivables												
10	Availability												

Note:-1. Remarks to indicate manner in which performance parameters reflected in the tariff proposal
2.list is illustrative

Form G 8

Deviation Analysis

Name of Generation Business/Company

KSEB Limited
SBU-G

Year (n-1)

(Rs. Crore)

S. No.	Particulars	Approved	Actual	Deviation	Reason for Deviation	Controllable	Uncontrollable
1	2	3	4	5	6	7	8
A	Expenditure						
1	Variable Costs, including Fuel Cost	NA	23.45	-23.45			
2	Depreciation	172.43	188.79	16.36			
3	Interest on term Loan & Finance charges	220.84	50.05	-170.79			
4	Return on Equity	203.63	203.63	0			
5	Tax on ROE	NA	NA	NA			
6	Interest on Working Capital						
7	O & M Expenses	75.71	128.55	52.84			
8	Any other item (to be specified)	NA	41.16	41.16			
9	Terminal benefits	NA	81.83	81.83			
	Total (A) Expenditure	672.61	717.46	44.85			
B	Receipts						
1	Revenue from Sale of Power (Tariff income)	NA	695.23	695.23			
2	Non Tariff income	NA	22.23	22.23			
3	Revenue Subsidies, Grants & Subvention from State Govt.	NA	NA	NA			

	Form G P&L					
	Profit & Loss Account					
	Name of Generation Business/ Company	SBU-G				
S.No.	Particulars	Ref	2017-18	2016-17	2015-16	Remarks
1	2	3	4	5	6	7
	I.INCOME					
	a. Revenue from Sale of Power		643.67	744.4	633.37	
	b. Revenue Subsidies and Grants					
	c. Other Income		24.99	22.22	19.43	
	Total (a+b+c)		668.66	766.62	652.8	
	II. EXPENDITURE					
	a. Repairs and Maintenance.		31.4	27.7	26.02	
	b. Employee Cost		140.29	249.27	153.21	
	c. Terminal benefits				40.62	
	c1. Administration and General Expenses		25.36	22.69	20.64	
	d.Depreciation		140.81	153.74	122.05	
	e.Interest and Finance charges		184.52	50.05	49.46	
	e1. Finance Cost					
	f. Subtotal (a+b+c+d+e)		522.38	503.45	352.87	
	g. Less Capitalised Expenses:					
	- Interest & Finance Charges				3.14	
	- Other Expenses			89.28	55.99	
	h. Other Debits		-1.01	0.35	2.24	
	Change in fair valuation and other adjustments		-8.62	-1.85		
	i. Extra Ordinary Items					
	j.Fuel cost		2.08	23.45	104.26	
	Total Expenditure (f-g+h+i+j)		514.83	436.12	459.37	
	III. Profit/(Loss) before Tax (I-II)		153.83	330.50	193.43	
	IV. Provision for Income Tax					
	V.Net Prior period credits (Charges)		0	-41.76	10.2	
	VI. Surplus (Deficit)		153.83	288.74	203.63	
	VII. Net Assets at the beginning of the year (Less consumer's Contribution)					
	VIII. Rate of Return (VI / VII)					

Form G BS
Balance Sheet at the end of the year
KERALA STATE ELECTRICITY BOARD LTD.

SBU-G

(Amount in Rs.Cr)

S.No.	Particulars	Ref	Previous Year		Previous Year	Remarks
			2017-18	2016-17	2015-16	
1	2	3	4	5	6	7
	Sources of Funds:					
	(A)Capital Funds:					
	Share Capital (Govt. equity)		831.27	1719.45	927.69	
	Reserves & Surplus		516.4			
	Total (A)		1347.67	1719.45	927.69	
	(B) Loan from State Government					
	Loan from others :					
	-Secured		12301.46	755.00	419.53	
	-Unsecured		398.22	1040.56	503.74	
	Total (B)		12699.68	1795.56	923.27	
	(C) Contribution, grants & subsidies towards cost of capital assets		75.31			
	Provident Fund		116.28	135.97	75.09	
	Terminal Benefit Fund		304.78	11571.26	12011.58	
	Borrowings for working capital					
	Long term Provision		992.88	141.33	997.09	
	Grand total of sources of funds (A+B+C)		15536.6	15363.57	14934.72	
	*Application of Funds:					
	A) Fixed assets					
	a) Gross fixed assets		16863.96	16880.05	16429.83	
	b) Less accumulated depreciation		2491.29	2354.88	2090.26	
	c) Net Fixed assets(a)-(b))		14372.67	14525.17	14339.57	
	d) Capital works in progress		1130.89	753.92	1112.10	
	e) Assets not in use					
	f) Deferred costs		105.48	102.29	93.59	
	g) Intangible assets					
	h) Investments		8.57	8.15	8.46	
	Long term Loans and Advances		98.46	90.28	4.41	
	Total (c) +(d)+(e)+(f)+(g)+(h)		15716.07	15479.81	15558.13	
	B)Subsidy receivable from Government					
	Contribution receivable from State Government towards pension liability		213.64	401.00	319.98	
	C) Net Current Assets					
	(1) Current assets, loans and advances					
	a) Inventories*		54.6	23.05	26.16	
	b) Receivables against Sale of Power					
	c) Cash & bank balances		25.03	6.32	20.24	
	d) Loans and advances			5.42	9.84	
	e) Sundry receivables		82.55	109.95	174.69	
	Total (C)(1)		162.18	144.74	230.93	
	(2) Current liabilities & provisions					
	a) Borrowings for working capital		250.73	351.99	868.78	
	b) Payments due on Cap. liabilities					
	c) Other current liabilities		304.55	309.99	305.54	
	Total (C)(2)		555.28	661.98	1174.32	
	Net Current Assets (C) [(C(1)) - (C(2))]		-393.1	-517.24	-943.39	
	Grand Total of Application of funds (A)+(B)+(C)		15536.6	15363.57	14934.72	
			0	0.00	0.00	

Form G CF : Cash Flow for the year				
KERALA STATE ELECTRICITY BOARD LTD - SBU - GENERATION				
S.No.	Particulars	2017-18	2016-17	2015-16
1	2	4	5	6
I	Net Funds from Operations			
1	Net Funds from Earnings :			
	(a) Profit before tax and before revenue subsidies and grants	153.84	288.74	143.8
	Less : Income Tax Payment during the year			
	Total of (a)	153.84	288.74	143.8
	(b) Add: Debits to rev. account not requiring cash Flow:			
	(i) Depreciation	140.81	153.74	122.05
	(ii) Depreciation on Assets capitalized in the initial BS of the IND As Accounts	-4.4	110.88	
	(ii) Amortization of Deferred costs			
	(iii) Amortization of Intangible Assets			
	(iv) Investment Allowance Reserve			
	(v) Others, if any	851.55	-855.76	605.42
	Total of (b)	987.96	-591.14	727.47
	(c) Less : Credits to revenue Account not involving cash receipts			
	(i) Deprecation			
	(ii) Subsidies receivables			
	(iii) Revenue gap			
	Total of (c)	0	0	
	Net Funds from Earnings (a)+(b)-(c)	1141.8	-302.4	871.27
2	Contributions, Grants & Subsidies to cost of Capital Assets	75.31		
3	Proceeds from disposal of fixed Assets			
4	Total Funds from Operations (1+2+3)	1217.11	-302.4	871.27
5	Net Increase/(Decrease) in working Capital			
	(a) Increase/(Decrease) in Current Assets			
	(i) Inventories	31.55	-3.11	-11.02
	(ii) Receivables against sale of power			
	(iii) Loans and Advances	-5.42	-4.42	2.42
	(iv) Sundry receivables	-27.4	-64.74	5.07
	(v)Subsidy receivables			
	Total of (a)	-1.27	-72.27	-3.53
	(b) Increase/(Decrease) in Current liabilities			
	(i)Borrowings for working Capital	-101.26	-516.79	24.59
	(ii) Other current liabilities	-5.44	4.45	45.73
	(iii) Others (Increase in Reserve + payment due on cap.liab)	362.56		
	Total of (b)	255.86	-512.34	70.32
	Net Increase/(Decrease) in working Capital (a)- (b)	-257.13	440.07	-73.85
6	Net Funds from operations before subsidies and Grants (5-6)	1474.25	-742.47	945.12
7	Receipts from revenue subsidies and Grants	187.36	-81.02	-540.11
	Total Net Funds from operations including subsidies & Grants (7+8)	1661.61	-823.49	405.01
II.	Net increase/ decrease in Capital liabilities			
	(a) Fresh borrowings			
	(i) State Loans			
	(ii) Foreign currency Loans / Credits			
	(iii) Other borrowings	12533.01	1887.34	708.03
	Total of (a)	12533.01	1887.34	708.03
	(b) Repayments :			
	(i) State Loans			
	(ii) Foreign currency Loans / Credits			
	(iii) Other borrowings	1628.89	1015.05	681.21
	Total of (b)	1628.89	1015.05	681.21
	Net Increase/(Decrease) in Capital liabilities (a) - (b)	10904.12	872.29	26.82
III.	Increase/(Decrease) in equity Capital	-888.18	503.02	-182.57
IV.	Total Funds available for Capital Expenditure (I+II+III)	11677.55	551.82	249.26
V	Funds utilised on Capital Expenditure			
	(a)On projects	360.88	92.04	247.49
	(b)Advance to Suppliers & Contractors			
	(c) Intangible Assets			
	(d) Deferred Cost	3.19	8.7	10.04
	(e) Long Term Loans and Advances	8.19	85.87	0.11
	Total of V (a+b+c+d)	372.25	186.61	257.64
VI	Net Increase/(Decrease) in Government contribution			
VII	Net Increase/(Decrease) in Terminal benefit fund	-11266.48	-440.32	0.44
VIII	Net Increase/(Decrease) in Provident fund	-19.69	60.88	7.15
IX	Net Increase/(Decrease) in investments	0.42	-0.31	-2.03
X	Net Increase /(Decrease) in cash / bank balance (IV - V- VI-IX)+ (VII+VIII)	18.71	-13.92	1.24
XI	Add opening cash & Bank balance	6.32	20.24	19
XII	Closing Cash & Bank balance	25.03	6.32	20.24