

Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation

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NOTE:

- (1) Electronic copy in the form of CD containing excel sheets of the Forms shall also be furnished.
(2) Figures in (-ve) must be shown in Brackets- (...) and figures in (+ve) must be shown without Bracket.

Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 1: Aggregate Revenue Requirement - Summary Sheet

Sr. No.	Particulars	Reference	True-Up Year (FY 2021-22)			FY 2023-24	Remarks
			Tariff Order	April - March (Audited)	Deviation	Projections	
			(a)	(b)	(c) = (b) - (a)		
1	Fuel Related Expenses		769.79	788.85	19.06	1106.86	
2	Operation & Maintenance Expenses	Form 3	54.43	50.92	(3.51)	60.83	
2.1	Water Charges	Form 3.A & 3.A.1	-	-	-	-	
3	Depreciation	Form 5	155.98	155.87	(0.11)	157.41	
4	Interest Expenses / Interest & Finance Charges on Loan Capital	Form 6	71.69	72.19	0.50	48.31	
5	Interest on Working Capital	Form 2.4	31.27	30.81	(0.46)	30.80	
6	Special allowance in lieu of Renovation & Modernisation*			-	-		
7	SLDC Fees and Charges		0.31	0.24	(0.07)	0.24	
8	Total Revenue Expenditure		1,083.47	1,098.87	15.40	1,404.45	
9	Add: Return on Equity	Form 7	125.88	125.74	(0.14)	126.98	
10	Add: Income Tax		2.80	2.46	(0.34)	2.46	
11	Less: Non-Tariff Income	Form 8	15.43	0.18	(15.25)	0.18	
12	Aggregate Revenue Requirement		1,196.72	1,226.89	30.17	1,533.72	

Note: * - Wherever applicable

Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 1.1: Summary of Tariff Proposal

Sr. No.	Particulars	FY 2021-22	FY 2023-24	Remarks
		Actual	Projections	
1	Capacity (Fixed) Charges (in Rs. Crore)	438.04	426.86	
2	Energy Charge Rate ex-bus (Rs./kWh)	3.58	3.49	
a	Station/Unit 1 (pls mention name)...			
b	Station/Unit 2 (pls mention name)...			
c	Station/Unit 3 (pls mention name)...			
			
			
3	Other Charges (Rs./kWh)			
a	Station/Unit 1 (pls mention name)...			
b	Station/Unit 2 (pls mention name)...			
c	Station/Unit 3 (pls mention name)...			
			
			

Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 2.1: Operational Parameters - Thermal Generation
Ukai 6

Sr. No.	Particulars	Unit of Measurement	True-Up Year (FY 2021-22)			FY 2023-24	Remarks
			Tariff Order	April - March (Audited)	Deviation		
			(a)	(b)	(c) = (b) - (a)	Projections	
1	Total Capacity	MW	500.00	500.00		500.00	
2	Availability						
2.1	Target Availability for full recovery of AFC	%	85.00%	58.29%			
2.2	Projected Availability	%				85.00%	
3	Plant Load Factor (PLF)						
3.1	Target PLF for Incentive	%	77.00%	54.29%			
3.2	Projected PLF	%				76.84%	
4	Gross Generation						
4.1	Scheduled Generation	MU	2,377.83	2,377.83			
4.2	Projected Gross Generation	MU				3375.00	
5	Auxiliary Consumption						
5.1	Normative Auxiliary Energy Consumption	%	6.00%	7.23%			
5.2	Projected Auxiliary Energy Consumption	%				6.00%	
5.3	Projected Auxiliary Energy Consumption	MU	142.67	171.90		202.50	
5.4	Net Generation	MU	2235.16	2205.93		3172.50	
6	Gross Station Heat Rate						
6.1	Normative Gross Station Heat Rate	kcal/kWh	2,385.00	2,402.13			
6.2	Projected Gross Station Heat Rate	kcal/kWh				2,385.00	
7	Secondary Fuel Oil Consumption						
7.1	Normative Secondary Fuel Oil Consumption	ml/kWh	1.00	1.87			
7.2	Projected Secondary Fuel Oil Consumption	ml/kWh				1	
8	Lime stone consumption						
	Lignite based stations using CFBC Technology						
8.1	Normative	kg/kWh	NA	NA			
8.2	Projected	kg/kWh				NA	
9	Transit and Handling Loss						
9.1	Normative Transit Loss	%	0.80%	0.32%			
9.2	Projected Transit Loss	%				0.80%	
10	Gas Booster Consumption						
10.1	Normative	%	NA	NA			
10.2	Projected	%				NA	

* Figures must be as per norms approved in GERC (MYT) Regulations, 2016

Note: Operational data is to be submitted for each Unit of each station separately

Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 2.2: Energy Charges - Thermal Generation
Ukai 6

Sr. No.	Item	Derivation	Unit	True-Up Year (FY 2021-22)	FY 2023-24 (Projections)	Remarks
1	Total Capacity	A1	MW	500	500	
2	Actual PLF (for True up year)/Projected PLF	A2	%	54.29%	76.84%	
3	Gross Generation	$A=A1 \times A2 \times 8784$ (leap year or 8760 for non-leap years)	MUs	2,377.83	3,375.00	
4	Auxiliary Consumption	C	%	7.23%	6.00%	
5	Auxiliary Consumption	B	MUs	171.90	202.50	
6	Net Generation	$Y=A - B$	MUs	2,205.93	3,172.50	
7	Station Heat Rate	D	Kcal/KWh	2,402.13	2,385.00	
8	Sp. Oil Consumption	E	ml/kWh	1.87	1.00	
9	Gross Calorific Value of Coal	F	kcal/kg	3,632.42	3,632.42	
10	Calorific value of Oil	G	kcal/l	10,378.28	10,378.28	
11	Overall Heat	$H=A \times D$	G Cal	5,711,842.80	8,049,375.00	
12	Heat from Oil	$I=(A \times E \times G)/1000$	G Cal	46,136.76	35,026.71	
13	Heat from Coal	$J=H-I$	G Cal	5,665,706.04	8,014,348.29	
14	Transit losses	K	%	0.32%	0.80%	
15	Coal Blend					
16	A) Indigenous Coal	X1	%	39.85%	40.00%	
17	B) Washed Coal	X2	%	60.15%	60.00%	
18	C) Imported Coal	X3	%	0.00%	0.00%	
19	Actual Oil Consumption	$L=A \times E$	kl	4,445.51	3375.00	
20	Actual Coal Consumption	$M=(J \times 1000)/F$	MT	1,559,762.22	2206340.68	
21	A) Indigenous Coal	$Q1=M \times X1/(1-K)$	MT	623,634.27	889653.50	
22	B) Washed Coal	$Q2=M \times X2 / (1-K)$	MT	941,135.21	1334480.25	
23	C) Imported Coal	$Q3=M \times X3$	MT	-	0.00	
24	Price of Coal				0.00	
25	A) Indigenous Coal	P1	Rs/MT	4,485.39	4485.39	
26	B) Washed Coal	P2	Rs/MT	5,182.32	5182.32	
27	C) Imported Coal	P3	Rs/MT	-	0.00	
28	Price of Oil	P4	Rs/kl	48,128.17	48128.17	
29	Coal cost			-	0.00	
30	A) Indigenous Coal	$N1=Q1 \times P1$	Rs Lakh	27,972.41	39904.40	
31	B) Washed Coal	$N2=Q2 \times P2$	Rs Lakh	48,772.62	69157.01	
32	C) Imported Coal	$N3=Q3 \times P3$	Rs Lakh	-	0.00	
33	Total Coal Cost	$N4=N1+N2+N3$	Rs Lakh	76,745.03	109061.41	
34	Oil Cost	$N5=P4 \times L/10^5$	Rs Lakh	2,139.54	1624.33	
35	Other Charges (Please specify details)	N6	Rs Lakh			
36	Other Adjustments (Please specify details)	N7	Rs Lakh			
37	Total Fuel Cost	$O=N4+N5+N6+N7$	Rs Lakh	78,884.57	110,685.74	
38	Fuel Cost/Unit Gross	$P=O/(A \times 10)$	Rs/kWh	3.32	3.28	
39	Fuel Cost/Unit Net	$Q=O/(Y \times 10)$	Rs/kWh	3.58	3.49	
40	Cost of fuel/G.Cal	$R=(O/H) \times 10^5$	Rs/Gcal	1,381.07	1,375.08	
41	Actual Net Generation (for true up year only)	S	MUs	2,205.93		
42	Normative Fuel Cost for actual Net Generation (for true up year only)	$T=S \times Q/10$	Rs. Crore	788.85		

* Should be as per MYT Regulations. If there is any deviation, pls justify.

NOTE: Operational data is to be submitted for each Unit of each station separately

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Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 2.4: Interest on Working Capital - Thermal Generation
Ukai 6

A. True-Up Year (FY 2021-22)**(Rs. Crore)**

Sr. No.	Particulars	Norm	True-Up Year (FY 2021-22)	
			Tariff Order	True-Up Petition
1	Target Availability (%)		85.00%	58.29%
2	Actual Generation (MU)		2,377.83	2,377.83
3	Cost of Coal/Lignite ¹			148.14
4	Cost of Oil ²			NA
5	Cost of Secondary Fuel Oil ¹			5.58
6	Fuel Cost ³			NA
7	Liquid Fuel Stock ³			NA
8	O&M expenses			4.24
9	Maintenance Spares			29.94
10	Receivables			136.43
11	Total Working Capital Requirement			324.34
12	Computation of Working Capital Interest			
13	Interest Rate (%)			9.50%
14	Interest on Working Capital		31.27	30.81
15	Actual Working Capital Interest as per Audited Accounts		Not Applicable	

Note:

- 1 For Coal based/Lignite based generating stations
- 2 For Oil based generating stations
- 3 For Gas Turbine/Combined Cycle generating stations duly taking into account the mode of operation on gas fuel and liquid fuel
- 4 Submit this form for each station separately

B. FY 2023-24**(Rs. Crore)**

Sr. No.	Particulars	Norm	FY 2023-24 (Projections)
1	Target Availability (%)		85.00%
2	Generation (MU)		3375.00
3	Cost of Coal/Lignite ¹		148.32
4	Cost of Oil ²		NA
5	Cost of Secondary Fuel Oil ¹		2.99
6	Fuel Cost ³		NA
7	Liquid Fuel Stock ³		NA
8	O&M expenses		5.07
9	Maintenance Spares		30.23
10	Receivables		137.60
11	Total Working Capital Requirement		324.22
	Computation of Working Capital Interest		
12	Interest Rate (%)		9.50%
13	Interest on Working Capital		30.80

Note:

- 1 For Coal based/Lignite based generating stations
- 2 For Oil based generating stations
- 3 For Gas Turbine/Combined Cycle generating stations taking into account the mode of operation on gas fuel and liquid fuel
- 4 Submit this form for each station separately

Ukai 6

Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 2.9: % Annual PAF & PLF of Generating Stations

True-Up Year (FY 2021-22)

Sr. No.	Generating Station	PAF	PLF
1	Ukai 6	58.29%	54.29%

Note: This detail must be certified by SLDC.

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Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 3: Operations and Maintenance Expenses Summary
Ukai 6

Sr. No.	Particulars	Reference	True-Up Year (FY 2021-22)			FY 2023-24 (Projections)	Remarks
			Tariff Order	April-March (Audited)	Deviation		
			(a)	(b)	(c) = (b) - (a)		
1	O&M Expenses	Form 3.1	54.43	50.92		60.83	
1.1	Employee Expenses	Form 3.2		21.14			
1.2	A&G Expenses	Form 3.3		4.95			
1.3	R&M Expenses	Form 3.4		24.83			
2	Less: O&M Expense capitalised						
3	Total Operation & Maintenance Expenses (Net of Capitalisation)		54.43	50.92	-3.51	60.83	

(Rs. Crore)

Note: This form should be submitted for each station separately alongwith separate details for H.O. Expenses

Form 3.A: Water Charges for the True-Up Year (FY 2019-20)

Sr. No.	Name of Generating Station	Generation in MU	Water consumption in Cub.Mtr.	Water consumption in Cub.Mtr./MU	Rate of water in Rs./Cub.Mtr.	Amount of water charges in Rs. Crore	Tariff Order	April-March (Audited)	Deviation	Remarks
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h) = (f) - (g)	
1	Ukai 6	2,377.83					-	-	-	

Form 3.A.1: Water Charges for the Period FY 2023-24

Sr. No.	Name of Generating Station	Projected Gross Generation in MU
1	Ukai 6	3375.00
...	
...	
...	
...	
...	

Projected water consumption in Cub.Mtr. per MU	Projected rate of water in Rs./Cub.Mtr.	Projected cost of water consumption in Rs. Crore
		-

Ukai 6**True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation****Form 3.1: Normative O&M Expenses****Ukai 6****A. For Existing Generating Stations****(Rs. Crore)**

Sr. No.	Particulars	FY 2021-22	FY 2023-24	
			Normative	Projected
1	Employee Expenses	21.14		
2	A&G Expenses (including insurance and excluding Water Charges)	4.95		
3	R & M Expenses	24.83		
4	Total O&M Expenses	50.92	60.83	60.83

Notes: This form should be submitted for each station separately alongwith separate details for H.O. Expenses

Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 3.2: Employee Expenses
Ukai 6

Expenditure details

(Rs. Crore)

Sr. No.	Particulars	True-Up Year (FY 2021-22)		
		April-March (Audited)		
		Regulated Business	Non-regulated Business	Total (Audited)
1	Basic Salary			
2	Dearness Allowance (DA)			
3	House Rent Allowance			
4	Conveyance Allowance			
5	Leave Travel Allowance			
6	Earned Leave Encashment			
7	Other Allowances			
8	Medical Reimbursement			
9	Overtime Payment			
10	Bonus/Ex-Gratia Payments			
11	Interim Relief / Wage Revision			
12	Staff welfare expenses			
13	VRS Expenses/Retrenchment Compensation			
14	Commission to Directors			
15	Training Expenses			
16	Payment under Workmen's Compensation Act			
17	Net Employee Costs			
18	Terminal Benefits			
18.1	Provident Fund Contribution			
18.2	Provision for PF Fund			
18.3	Pension Payments			
18.4	Gratuity Payment			
18.5	Incentive			
19	Others (Pls. specify)			
20	Gross Employee Expenses			21.14
21	Less: Expenses Capitalised			-
22	Net Employee Expenses			21.14
23	Total Gross Generation in MU			2,377.83
24	Employees Cost / Unit (22/23)			0.09
25	No. of Employees			

Note: This form should be submitted for each station separately alongwith separate details for H.O. Expenses

Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 3.3: Administration & General Expenses
Ukai 6

(Rs. Crore)

Sr. No.	Particulars	True-Up Year (FY 2021-22)		
		April-March (Audited)		
		Regulated Business	Non-regulated Business	Total (Audited)
1	Rent Rates & Taxes			
2	Insurance			
3	Telephone & Postage, etc.			
4	Legal charges & Audit fee (Break-up as per separate Table in Form 3.3.1)			
5	Professional, Consultancy, Technical fee			
6	Conveyance & Travel			
7	Electricity charges			
8	Water charges			
9	Security arrangements			
10	Fees & subscription			
11	Books & periodicals			
12	Computer Stationery			
13	Printing & Stationery			
14	Advertisements			
15	Purchase Related Advertisement Expenses			
16	Contribution/Donations			
17	License Fee and other related fee			
18	Vehicle Running Expenses Truck / Delivery Van			
19	Vehicle Hiring Expenses Truck / Delivery Van			
20	Cost of services procured			
21	Outsourcing of metering and billing system			
22	Freight On Capital Equipments			
23	V-sat, Internet and related charges			
24	Training			
25	Bank Charges			
26	Miscellaneous Expenses			
27	Office Expenses			
28	Others (Pls. specify)			
29	Gross A &G Expenses			4.95
30	Less: Expenses Capitalised			-
31	Net A &G Expenses			4.95

Note: This form should be submitted for each station separately alongwith separate details for H.O. Expenses

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Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 3.4: Repair & Maintenance Expenses
Ukai 6

(Rs. Crore)		
Sr. No.	Particulars	True-Up Year (FY 2021-22)
1	Plant & Machinery	
2	Buildings	
3	Civil Works	
4	Hydraulic Works	
5	Lines & Cable Networks	
6	Vehicles	
7	Furniture & Fixtures	
8	Office Equipment	
9	Gross R&M Expenses	24.83
10	Gross Fixed Assets at beginning of year	2,986.89
11	R&M Expenses as % of GFA at beginning of year	0.01

Note: This form should be submitted for each station separately

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Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 4: Summary of Capital Expenditure and Capitalisation
Ukai 6

(Rs. Crore)

Sr. No.	Particulars	FY 2021-22	FY 2023-24	Remarks
		Actual	Projections	
1	Capital Expenditure	0.01	200.00	
2	Capitalisation	13.74	20.00	
3	IDC			
4	Capitalisation + IDC	13.74	20.00	

Note: Detail Justification shall be provided for variation in approved capital expenditure and capitalisation vis-a-vis actual capital expenditure and capitalisation

This form should be submitted for each station separately

Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 5: Assets & Depreciation (1 of 2)
Ukai 6

Fixed Assets and Depreciation (Station-wise) For True Up year

(Rs. Crore)

Particulars *	Gross Block				Depreciation				Applicable rate of Depreciation (%) *	Net Block	
	As at the beginning of the Financial Year	Additions	Deductions	As at the end of the Financial Year	As at the beginning of the Financial Year	Additions	Deductions	As at the end of the Financial Year		As at the beginning of the Financial Year	As at the end of the Financial Year
Land											
Buildings											
Hydraulic works											
Other Civil Works											
Plant & Machinery											
Lines & Cables											
Vehicles											
Furniture & Fixtures											
Office Equipments											
Capital Expenditure on Assets not belonging to utility											
Spare Units											
Capital Spares											
TOTAL	2,986.89	13.74	-	3,000.63		155.87			5.21%		

* The particular of asset and rate of depreciation should match with those provided in the applicable Tariff Regulations
 This form should be submitted for each station separately

Fixed Assets and Depreciation (Station-wise) For FY 2023-24

(Rs. Crore)

Particulars *	Gross Block				Depreciation				Applicable rate of Depreciation (%) *	Net Block	
	As at the beginning of the Financial Year	Additions	Deductions	As at the end of the Financial Year	As at the beginning of the Financial Year	Additions	Deductions	As at the end of the Financial Year		As at the beginning of the Financial Year	As at the end of the Financial Year
Land											
Buildings											
Hydraulic works											
Other Civil Works											
Plant & Machinery											
Lines & Cables											
Vehicles											
Furniture & Fixtures											
Office Equipments											
Capital Expenditure on Assets not belonging to utility											
Spare Units											
Capital Spares											
TOTAL	3,013.40	20.00	-	3,033.40		157.41			5.21%		

* The particular of asset and rate of depreciation should match with those provided in the applicable Tariff Regulations

Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 6: Interest Expenses

A. Normative Loan**(Rs. Crore)**

Sr. No.	Source of Loan	True-Up Year (FY 2021-22)			FY 2023-24	Remarks
		Tariff Order	April-March (Audited)	Deviation		
		(a)	(b)	(c) = (b) - (a)	Projections	
1	Opening Balance of Normative Loan		955.63		662.34	
2	Less: Reduction of Normative Loan due to retirement or replacement of assets					
3	Addition of Normative Loan due to capitalisation during the year		9.62		14.00	
4	Repayment of Normative loan during the year		155.87		157.41	
5	Closing Balance of Normative Loan		809.38		518.93	
6	Average Balance of Normative Loan		882.51		590.64	
7	Weighted average Rate of Interest on actual Loans (%)		8.18%		8.18%	
8	Interest Expenses		72.19		48.31	
9	Finance Charges		-		0.00	
10	Total Interest & Finance Charges	71.69	72.19	0.50	48.31	

Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 7: Return on Regulatory Equity

(Rs. Crore)

Sr. No.	Particulars	Legend	True-Up Year (FY 2021-22)			FY 2023-24
			Norm	Tariff Order	Claimed in Petition	Projections
1	Regulatory Equity at the beginning of the year	A			896.07	904.02
2	Capitalisation during the year	B			13.74	20.00
3	Equity portion of capitalisation during the year	C			4.12	6.00
4	Reduction in Equity Capital on account of retirement / replacement of assets	D			-	-
5	Regulatory Equity at the end of the year	E=A+C-D			900.19	910.02
	Return on Equity Computation					
6	Return on Regulatory Equity at the beginning of the year	F				
7	Return on Regulatory Equity addition during the year	G=(C-D)/2				
8	Total Return on Equity			125.88	125.74	126.98

Gujarat State Electricity Corporation Ltd.
True up for FY 2021-22 and ARR Petition Formats for FY 2023-24- Generation
Form 8: Non-Tariff Income
Ukai 6

(Rs. Crore)

Sr. No.	Particulars	Reference	True-Up Year (FY 2021-22)			FY 2023-24	Remarks
			Tariff Order	April-March (Audited)	Deviation		
			(a)	(b)	(c) = (b) - (a)	Projections	
1	Income from Rents of land or buildings						
2	Income from Sale of Scrap						
3	Income from statutory investments						
4	Income from sale of ash/rejected coal						
5	Interest income on advances to suppliers/contractors						
6	Income from Rental from staff quarters						
7	Income from Rental from contractors						
8	Income from hire charges from contractors and others						
9	Income from advertisements, etc.						
10	Prior Period Income etc.						
11	...						
12	...						
	Others (Pls. specify)						
17	Total		15.43	0.18	-15.25	0.18	

Note: This form should be submitted for each station separately