Gujarat State Electricity Corporation Ltd. True up for FY 2021-22 and ARR Petition Formats for FY 2023-24 - Generation Gandhinagar 5

	Ganumagar 5					
Sr. No.	Title	Reference				
1	Aggregate Revenue Requirement - Summary Sheet	Form 1				
2	Summary of Tariff Proposal	Form 1.1				
3	Operational Parameters - Thermal Generation	Form 2.1				
4	Energy Charges - Thermal Generation	Form 2.2				
5	Interest on Working Capital - Thermal Generation	Form 2.4				
6	% Annual Availability of Generating Stations	Form 2.9				
7	Summary of Operations and Maintenance Expenses	Form 3				
8	Water Charges for the True-up Year	Form 3.A				
9	Water Charges for the Period FY 2021-22	Form 3.A.1				
10	Normative O&M Expenses	Form 3.1				
11	Employee Expenses	Form 3.2				
12	Administration & General Expenses	Form 3.3				
13	Repair & Maintenance Expenses	Form 3.4				
14	Summary of Capital Expenditure and Capitalisation	Form 4				
15	Assets & Depreciation	Form 5				
16	Interest Expenses	Form 6				
17	Return on Regulatory Equity	Form 7				
18	Non-Tariff Income	Form 8				

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 shwon 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

Gandhinagar 5

			True	-Up Year (FY 2021	1-22)		
Sr. No.	Particulars	Reference	Tariff Order	April - March (Audited)	Deviation	FY 2023-24	Remarks
			(a)	(b)	(c) = (b) - (a)	Projected	
1	Fuel Related Expenses		381.74	384.26	2.53	425.82	
2	Operation & Maintenance Expenses	Form 3	58.32	75.40	17.08	65.19	
2.1	Water Charges	Form 3.A & 3.A.1	21.05	34.48	13.43	34.48	
3	Depreciation	Form 5	-	2.16	2.16	2.16	
4	Interest Expenses / Interest & Finance Charges on Loan Capital	Form 6	-	-	-	-	
5	Interest on Working Capital	Form 2.4	13.94	12.84	-1.10	13.30	
6	Special allowance in lieu of Renovation & Modernisation*			-	-		
7	SLDC Fees and Charges		0.13	0.10	-0.03	0.10	
8	Total Revenue Expenditure		475.18	509.24	34.06	541.04	
9	Add: Return on Equity	Form 7	28.67	28.67	0.00	28.67	
10	Add:Income Tax		1.18	2.75	1.57	2.75	
11	Less: Non-Tariff Income	Form 8	9.96	0.07	-9.89	0.07	
12	Aggregate Revenue Requirement		495.07	540.58	45.52	572.39	-

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 Gandhinagar 5

Sr. No.	Particulars	FY 2021-22 Actual	FY 2023-24 Projected	Remarks
1	Capacity (Fixed) Charges (in Rs. Crore)	156.32	146.57	
2	Energy Charge Rate ex-bus (Rs./kWh)	3.89	3.92	
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)			
С	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 Gandhinagar 5

Deviation (c) = (b) - (a)	Projected 210	Remarks
(c) = (b) - (a)	210	
	95.000/	
	95,000/	
	95,000/	
	0.5.000/	
	85.00%	
	65.05%	
	1200.00	
	1200.00	
	0.50%	
	1000.00	
	2,460.00	
	,	
	3.50	
	NA	
	0.80%	
	37.	
	NA	
		3.50

^{*} 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 Gandhinagar 5

Sr. No.	Item	Derivation	Unit	True-Up Year (FY 2021-22)	FY 2023-24 (Projection)	Remarks
1	Total Capacity	A1	MW	210	210	
2	Actual PLF (for True up year)/Projected PLF	A2	%	59.96%	65.05%	
3	Gross Generation	A=A1 x A2 x 8784 (leap year or 8760 for non-leap years)	MUs	1,103.02	1,200.00	
4	Auxiliary Consumption	C	%	10.41%	9.50%	
5	Auxiliary Consumption	В	MUs	114.86	114.00	
6	Net Generation	Y=A - B	MUs	988.16	1,086.00	
7	Station Heat Rate	D	Kcal/KWh	2,515.73	2,460.00	
	Sp. Oil Consumption	Е	ml/kWh	0.84	3.50	
	Gross Calorific Value of Coal	F	kcal/kg	3,870.57	3,870.57	
10	Calorific value of Oil	G	kcal/I	10,467.57	10,467.57	
11	Overall Heat	H=A x D	G Cal	2,774,902.26	2,952,000.00	
12	Heat from Oil	I=(A x E x G)/1000	G Cal	9,735.73	43,963.81	
13	Heat from Coal	J=H-I	G Cal	2,765,166.54	2,908,036.19	
14	Transit losses	K	%	0.28%	0.80%	
15	Coal Blend			-	-	
16	A) Indigenous Coal	X1	%	58.49%	40%	
17	B) Washed Coal	X2	%	41.51%	60%	
18	C) Imported Coal	X3	%	0.00%	0%	
19	Actual Oil Consumption	L=A x E	kl	930.08	4,200.00	
20	Actual Coal Consumption	M=(J X 1000)/F	MT	714,407.89	751,319.67	
21	A) Indigenous Coal	Q1=M* x X1/(1-K)	MT	419,047.44	302,951.48	
22	B) Washed Coal	Q2=M* x X2 / (1-K)	MT	297,366.40	454,427.22	
23	C) Imported Coal	Q3=M* X X3	MT	-	-	
24	Price of Coal			-	-	
25	A) Indigenous Coal	P1	Rs/MT	5,123.73	5,123.73	
26	B) Washed Coal	P2	Rs/MT	5,572.57	5,572.57	
27	C) Imported Coal	P3	Rs/MT	-	-	
28	Price of Oil	P4	Rs/kI	41,340.77	41,340.77	
29	Coal cost			-	-	
30	A) Indigenous Coal	N1=Q1 X P1	Rs Lakh	21,470.84	15,522.40	
31	B) Washed Coal	N2=Q2 X P2	Rs Lakh	16,570.94	25,323.26	
32	C) Imported Coal	N3=Q3 X P3	Rs Lakh	-	-	
33	Total Coal Cost	N4=N1+N2+N3	Rs Lakh	38,041.78	40,845.66	
34	Oil Cost	N5=P4 x L/10^5	Rs Lakh	384.50	1,736.31	
1 45	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	38,426.28	42,581.97	
	Fuel Cost/Unit Gross	P=O/(A*10)	Rs/kWh	3.48	3.55	
	Fuel Cost/Unit Net	Q=O/(Y*10)	Rs/kWh	3.89	3.92	
	Cost of fuel/G.Cal	R=(O/H)*10^5	Rs/Gcal	1,384.78	1,442.48	
41	Actual Net Generation (for true up year only)	S	MUs	988.16		
1 47	Normative Fuel Cost for actual Net Generation (for true up year only)	T=S*Q/10	Rs. Crore	384.26		

^{*} 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

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 Gandhinagar 5

A. True-Up Year (FY 2021-22)

(Rs. Crore)

Sr.	Particulars	Norm	True-Up Year (FY 2021-22)			
No.	Particulars	Norm	Tariff Order	True-Up Petition		
1	Target Availability (%)		85.00%	72.45%		
2	Actual Generation (MU)		1,103.02	1,103.02		
3	Cost of Coal/Lignite ¹			66.49		
4	Cost of Oil ²			NA		
5	Cost of Secondary Fuel Oil ¹			0.91		
6	Fuel Cost ³			NA		
7	Liquid Fuel Stock ³			NA		
8	O&M expenses			6.28		
9	Maintenance Spares			6.58		
10	Receivables			54.90		
11	Total Working Capital Requirement			135.16		
12	Computation of Working Capital Interest					
13	Interest Rate (%)			9.50%		
14	Interest on Working Capital		13.94	12.84		
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	
110.			Projected	
1	Target Availability (%)		85.00%	
2	Generation (MU)		1200.00	
3	Cost of Coal/Lignite ¹		65.62	
4	Cost of Oil ²		NA	
5	Cost of Secondary Fuel Oil ¹		3.78	
6	Fuel Cost ³		NA	
7	Liquid Fuel Stock ³		NA	
8	O&M expenses		5.43	
9	Maintenance Spares		6.58	
10	Receivables		58.58	
11	Total Working Capital Requirement		139.99	
	Computation of Working Capital Interest			
12	Interest Rate (%)		9.50%	
13	Interest on Working Capital		13.30	

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

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 Gandhinagar 5

True-Up Year (FY 2020-21)

Sr. No.	Generating Station	PAF	PLF
1	Gandhinagar 5	72.45%	59.96%

Note: This detail must be certified by SLDC.

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 Gandhinagar 5

(Rs. Crore)

			True-	Up Year (FY 2	021-22)		
Sr. No.	Particulars	Reference	Tariff Order	April-March (Audited)	Deviation	FY 2023-24 (Projection)	Remarks
			(a)	(b)	(c) = (b) - (a)		
1	O&M Expenses	Form 3.1	58.32	75.40		65.19	
1.1	Employee Expenses	Form 3.2		59.35			
1.2	A&G Expenses	Form 3.3		3.50			
1.3	R&M Expenses	Form 3.4		12.54			
2	Less: O&M Expense capitalised						
3	Total Operation & Maintenance Expenses (Net of Capitalisation)		58.32	75.40	17.08	65.19	

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 2021-22)

Sr. No.	Name of Generating Station	Generation in MU	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	Gandhinagar 5	1,103.02					21.05	34.48	-13.43	

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

Sr. No.	Name of Generating Station	Projected Gross Generation in MU
1	Gandhinagar 5	1200.00

in	cost of water
	34.48
	rate of water

True up for FY 2021-22 and ARR Petition Formats for FY 2023-24 - Generation Form 3.1: Normative O&M Expenses Gandhinagar 5

A. For Existing Generating Stations

(Rs. Crore)

Sr. No.	Particulars	Normative FY 2021-22	FY 2023-24			
		(e)	Normative	Projected		
1	Employee Expenses	59.35				
1 ')	A&G Expenses (including insurance and excluding Water Charges)	3.50				
3	R & M Expenses	12.54				
4	Total O&M Expenses	75.40	65.19	65.19		

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 Gandhinagar 5

Expenditure details

(Rs. Crore)

			True-Up Year (FY 2021-22)	(Rs. Crore)
Sr. No.	Particulars		April-March (Audited)	
S1. NO.	r ai ucuiai s	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			59.35
21	Less: Expenses Capitalised			-
22	Net Employee Expenses			59.35
23	Total Gross Generation in MU			1,103.02
24	Employees Cost / Unit (22/23)			0.54
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 Gandhinagar 5

(Rs. Crore)

			True-Up Year (FY 2021-22)	(Rs. Crore)				
Sr.	Particulars	April-March (Audited)						
No.	i arucuais	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)							
	Gross A &G Expenses			3.50				
30	Less: Expenses Capitalised			-				
31	Net A &G Expenses			3.50				

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 3.4: Repair & Maintenance Expenses Gandhinagar 5

(Rs. Crore)

Sr.	Particulars	True-Up Year
No.	r articulars	(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	12.54
10	Gross Fixed Assets at beginning of year	657.84
11	R&M Expenses as % of GFA at beginning of year	1.91%

Note: 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 4: Summary of Capital Expenditure and Capitalisation Gandhinagar 5

(Rs. Crore)

Sr. No.	Particulars	FY 2021-22	FY 2023-24	Remarks
110.		Actual	Projected	
1	Capital Expenditure	•	3.00	
2	Capitalisation	-	-	
3	IDC			
4	Capitalisation + IDC	-	-	

Detail Justification shall be provided for variation in approved capital **Note**: 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) Gandhinagar 5

Fixed Assets and Depreciation (Station-wise) For True Up year FY 2021-22

(Rs. Crore)

		Gross	Block		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	Applicable rate of Depreciation (%) *	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	657.84	ı	-	657.84		2.16			0.33%		

^{*} 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)

											(Ks. Crore)
		Gross	Block		Depreciation				Applicable	Net Block	
Particulars *	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	rate of Depreciation (%) *	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	657.84	-	-	657.84		2.16			0.33%		

^{*} 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

Gujarat State Electricity Corporation Ltd. True up for FY 2021-22 and ARR Petition Formats for FY 2023-24 - Generation Form 6: Interest Expenses Gandhinagar 5

A. Normative Loan

(Rs. Crore)

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

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 Gandhinagar 5

(Rs. Crore)

Sr.	Particulars		Т	FY 2023-24		
No.		Legend	Norm	Tariff Order	Claimed in	
					Petition	Projected
1	Regulatory Equity at the beginning of the year	A			220.57	220.57
2	Capitalisation during the year	В			•	-
3	Equity portion of capitalisation during the year	С			1	-
1 4	Reduction in Equity Capital on account of retirement /	D			-	-
	replacement of assets					
5	Regulatory Equity at the end of the year	E=A+C-D			220.57	220.57
	Return on Equity Computation					
6	Return on Regulatory Equity at the beginning of the year	F			28.67	28.67
7	Return on Regulatory Equity addition during the year	G=(C-D)/2			-	-
8	Total Return on Equity		·	28.67	28.67	28.67

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 Gandhinagar 5

(Rs. Crore)

			True-	Up Year (FY 2	021-22)		
Sr. No.	Particulars	Reference	Tariff Order	April-March (Audited)	Deviation	FY 2023-24	Remarks
			(a)	(b)	(c) = (b) - (a)	Projected	
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		9.96	0.07	-9.89	0.07	

Note: This form should be submitted for each station separately