

Gujarat State Electricity Corporation Ltd.
True-up for FY 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Ukai 3-5

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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 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 1: Aggregate Revenue Requirement - Summary Sheet

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Sr. No.	Particulars	Reference	True-Up Year (FY 2020-21)			FY 2022-23	Remarks
			Tariff Order	April - March (Audited)	Deviation		
			(a)	(b)	(c) = (b) - (a)	Projected	
1	Fuel Related Expenses		724.04	716.91	-7.13	1,167.97	
2	Operation & Maintenance Expenses	Form 3	184.09	191.49	7.40	262.61	
2.1	Water Charges	Form 3.A & 3.A.1	0.10	-	-0.10	-	
3	Depreciation	Form 5	80.83	44.88	-35.95	46.33	
4	Interest Expenses / Interest & Finance Charges on Loan Capital	Form 6	36.94	-	-36.94	-	
5	Interest on Working Capital	Form 2.4	30.30	32.30	2.00	37.07	
6	Special allowance in lieu of Renovation & Modernisation*			-	-		
7	SLDC Fees and Charges		0.60	0.40	-0.20	0.40	
8	Total Revenue Expenditure		1,056.90	985.99	-70.91	1,514.38	
9	Add: Return on Equity	Form 7	32.86	23.14	-9.72	25.00	
10	Add: Income Tax		3.47	17.51	14.04	17.51	
11	Less: Non-Tariff Income	Form 8	11.39	3.78	-7.61	3.78	
12	Aggregate Revenue Requirement		1,081.84	1,022.86	-58.98	1,553.11	

Note: * - Wherever applicable

Gujarat State Electricity Corporation Ltd.
True-up for FY 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 1.1: Summary of Tariff Proposal
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Sr. No.	Particulars	FY 2020-21	FY 2022-23	Remarks
		Actual	Projected	
1	Capacity (Fixed) Charges (in Rs. Crore)	305.94	385.14	
2	Energy Charge Rate ex-bus (Rs./kWh)	3.80	4.00	
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 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 2.1: Operational Parameters - Thermal Generation
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Sr. No.	Particulars	Unit of Measurement	True-Up Year (FY 2020-21)			FY 2022-23	Remarks
			Tariff Order	April - March (Audited)	Deviation		
			(a)	(b)	(c) = (b) - (a)	Projected	
1	Total Capacity	MW	610	610	610		
2	Availability						
2.1	Target Availability for full recovery of AFC	%	80.00%	90.74%			
2.2	Projected Availability	%			80.00%		
3	Plant Load Factor (PLF)						
3.1	Target PLF for Incentive	%	58.00%	39.31%			
3.2	Projected PLF	%			60.00%		
4	Gross Generation						
4.1	Scheduled Generation	MU	2,100.79	2100.79			
4.2	Projected Gross Generation	MU			3206.16		
5	Auxiliary Consumption						
5.1	Normative Auxiliary Energy Consumption	%	9.00%	10.30%			
5.2	Projected Auxiliary Energy Consumption	%			9.00%		
5.3	Projected Auxiliary Energy Consumption	MU			288.55		
5.4	Net Generation	MU	1911.72	1884.39	2917.61		
6	Gross Station Heat Rate						
6.1	Normative Gross Station Heat Rate	kcal/kWh	2,625.00	2,529.04			
6.2	Projected Gross Station Heat Rate	kcal/kWh			2,625.00		
7	Secondary Fuel Oil Consumption						
7.1	Normative Secondary Fuel Oil Consumption	ml/kWh	1.00	3.51			
7.2	Projected Secondary Fuel Oil Consumption	ml/kWh			1.00		
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 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 2.2: Energy Charges - Thermal Generation
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Sr. No.	Item	Derivation	Unit	True-Up Year (FY 2020-21)	FY 2022-23 (Projected)	Remarks
1	Total Capacity	A1	MW	610	610	
2	Actual PLF (for True up year)/Projected PLF	A2	%	39.31%	60.00%	
3	Gross Generation	A=A1 x A2 x8784 (leap year or 8760 for non-leap years)	MUs	2,100.79	3,206.16	
4	Auxiliary Consumption	C	%	10.30%	9.00%	
5	Auxiliary Consumption	B	MUs	216.40	288.55	
6	Net Generation	Y=A - B	MUs	1,884.39	2,917.61	
7	Station Heat Rate	D	Kcal/KWh	2,529.04	2,625.00	
8	Sp. Oil Consumption	E	ml/kWh	3.51	1.00	
9	Gross Calorific Value of Coal	F	kcal/kg	3,527.89	3,527.89	
10	Calorific value of Oil	G	kcal/l	10,418.24	10,418.24	
11	Overall Heat	H=A x D	G Cal	53,12,989.23	84,16,170.00	
12	Heat from Oil	I=(A x E x G)/1000	G Cal	76,900.17	33,402.54	
13	Heat from Coal	J=H-I	G Cal	52,36,089.06	83,82,767.46	
14	Transit losses	K	%	0.32%	0.80%	
15	Coal Blend					
16	A) Indigenous Coal	X1	%	91.17%	40.00%	
17	B) Washed Coal	X2	%	8.83%	60.00%	
18	C) Imported Coal	X3	%	0.00%	0.00%	
19	Actual Oil Consumption	L=A x E	kl	7,381.30	3,206.16	
20	Actual Coal Consumption	M=(J X 1000)/F	MT	14,84,197.95	23,76,141.07	
21	A) Indigenous Coal	Q1=M* x X1/(1-K)	MT	13,57,509.06	9,58,121.40	
22	B) Washed Coal	Q2=M* x X2 / (1-K)	MT	1,31,453.57	14,37,182.10	
23	C) Imported Coal	Q3=M* X X3	MT	-	-	
24	Price of Coal					
25	A) Indigenous Coal	P1	Rs/MT	4,596.51	4,596.51	
26	B) Washed Coal	P2	Rs/MT	4,979.42	4,979.42	
27	C) Imported Coal	P3	Rs/MT	-	-	
28	Price of Oil	P4	Rs/kl	37,222.51	37,222.51	
29	Coal cost					
30	A) Indigenous Coal	N1=Q1 X P1	Rs Lakh	62,397.99	44,040.11	
31	B) Washed Coal	N2=Q2 X P2	Rs Lakh	6,545.62	71,563.32	
32	C) Imported Coal	N3=Q3 X P3	Rs Lakh	-	-	
33	Total Coal Cost	N4=N1+N2+N3	Rs Lakh	68,943.62	1,15,603.44	
34	Oil Cost	N5=P4 x L/10^5	Rs Lakh	2,747.51	1,193.41	
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	71,691.12	1,16,796.85	
38	Fuel Cost/Unit Gross	P=O/(A*10)	Rs/kWh	3.41	3.64	
39	Fuel Cost/Unit Net	Q=O/(Y*10)	Rs/kWh	3.80	4.00	
40	Cost of fuel/G.Cal	R=(O/H)*10^5	Rs/Gcal	1,349.36	1,387.77	
41	Actual Net Generation (for true up year only)	S	MUs	1,884.39		
42	Normative Fuel Cost for actual Net Generation (for true up year only)	T=S*Q/10	Rs. Crore	716.91		

* 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 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 2.4: Interest on Working Capital - Thermal Generation
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A. True-Up Year (FY 2020-21)

(Rs. Crore)

Sr. No.	Particulars	Norm	True-Up Year (FY 2020-21)	
			Tariff Order	True-Up Petition
1	Target Availability (%)		80.00%	90.74%
2	Actual Generation (MU)		2,100.79	2,100.79
3	Cost of Coal/Lignite ¹			172.96
4	Cost of Oil ²			NA
5	Cost of Secondary Fuel Oil ¹			9.32
6	Fuel Cost ³			NA
7	Liquid Fuel Stock ³			NA
8	O&M expenses			15.96
9	Maintenance Spares			13.38
10	Receivables			125.94
11	Total Working Capital Requirement			337.56
12	Computation of Working Capital Interest			
13	Interest Rate (%)			9.57%
14	Interest on Working Capital		30.30	32.30
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 2022-23

Sr. No.	Particulars	Norm	FY 2022-23
			Projected
1	Target Availability (%)		80.00%
2	Generation (MU)		3206.16
3	Cost of Coal/Lignite ¹		190.03
4	Cost of Oil ²		NA
5	Cost of Secondary Fuel Oil ¹		2.65
6	Fuel Cost ³		NA
7	Liquid Fuel Stock ³		NA
8	O&M expenses		21.88
9	Maintenance Spares		13.80
10	Receivables		161.87
11	Total Working Capital Requirement		390.24
	Computation of Working Capital Interest		
12	Interest Rate (%)		9.50%
13	Interest on Working Capital		37.07

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

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Gujarat State Electricity Corporation Ltd.
True-up for FY 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 2.9: % Annual PAF & PLF of Generating Stations
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True-Up Year (FY 2020-21)

Sr. No.	Generating Station	PAF	PLF
1	Ukai 3-5	90.74%	39.31%

Note: This detail must be certified by SLDC.

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Gujarat State Electricity Corporation Ltd.
True-up for FY 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 3: Operations and Maintenance Expenses Summary
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(Rs. Crore)

Sr. No.	Particulars	Reference	True-Up Year (FY 2020-21)			FY 2022-23 Projected	Remarks
			Tariff Order	April-March (Audited)	Deviation		
			(a)	(b)	(c) = (b) - (a)		
1	O&M Expenses	Form 3.1	184.09	191.49	7.40	262.61	
1.1	Employee Expenses	Form 3.2		130.66	130.66	-	
1.2	A&G Expenses	Form 3.3		35.93	35.93	-	
1.3	R&M Expenses	Form 3.4		24.91	24.91	-	
2	Less: O&M Expense capitalised				-		
3	Total Operation & Maintenance Expenses (Net of Capitalisation)		184.09	191.49	7.40	262.61	

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

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Form 3.A: Water Charges for the True-Up Year (FY FY 2020-21)

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 3-5	2,100.79					0.10	-	0.10	

Form 3.A.1: Water Charges for the Period FY 2022-23

Sr. No.	Name of Generating Station	Projected Gross Generation in MU
1	Ukai 3-5	3206.16

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

True-up for FY 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 3.1: Normative O&M Expenses
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A. For Existing Generating Stations

(Rs. Crore)

Sr. No.	Particulars	FY 2020-21	FY 2022-23	
			Normative	Projecton
1	Employee Expenses			
2	A&G Expenses (including insurance and excluding Water Charges)			
3	R & M Expenses			
4	Total O&M Expenses	191.49	262.61	262.61

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

Gujarat State Electricity Corporation Ltd.
True-up for FY 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 3.2: Employee Expenses
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Expenditure details

(Rs. Crore)

Sr. No.	Particulars	True-Up Year (FY 2020-21)		
		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			130.66
21	Less: Expenses Capitalised			-
22	Net Employee Expenses			130.66
23	Total Gross Generation in MU			2,100.79
24	Employees Cost / Unit (22/23)			0.62
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 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 3.3: Administration & General Expenses
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(Rs. Crore)

Sr. No.	Particulars	True-Up Year (FY 2020-21)		
		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			35.93
30	Less: Expenses Capitalised			-
31	Net A &G Expenses			35.93

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 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 3.4: Repair & Maintenance Expenses
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(Rs. Crore)

Sr. No.	Particulars	True-Up Year (FY 2020-21)
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	24.91
10	Gross Fixed Assets at beginning of year	1,326.85
11	R&M Expenses as % of GFA at beginning of year	2%

Note: This form should be submitted for each station separately

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Gujarat State Electricity Corporation Ltd.
True-up for FY 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 4: Summary of Capital Expenditure and Capitalisation
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(Rs. Crore)

Sr. No.	Particulars	FY 2020-21	FY 2022-23	Remarks
		Actual	Projected	
1	Capital Expenditure		52.90	
2	Capitalisation	22.47	24.70	
3	IDC			
4	Capitalisation + IDC		24.70	

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 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
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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	1,326.85	22.47	2.61	1,346.72		44.88			3.36%		

* 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

Form 5: Assets & Depreciation (1 of 2)**Fixed Assets and Depreciation (Station wise) For FY 2022-23****(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	1367.52	24.70	0.00	1392.21		46.33			3.36%		

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

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Gujarat State Electricity Corporation Ltd.
True-up for FY 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 6: Interest Expenses
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A. Normative Loan

(Rs. Crore)

Sr. No.	Source of Loan	True-Up Year (FY 2020-21)			FY 2022-23	Remarks
		Tariff Order	April-March (Audited)	Deviation		
		(a)	(b)	(c) = (b) - (a)	Projected	
1	Opening Balance of Normative Loan		-		-	
2	Less: Reduction of Normative Loan due to retirement or replacement of assets					
3	Addition of Normative Loan due to capitalisation during the year		15.73		17.29	
4	Repayment of Normative loan during the year		15.73		17.29	
5	Closing Balance of Normative Loan		-		-	
6	Average Balance of Normative Loan		-		-	
7	Weighted average Rate of Interest on actual Loans (%)		10.29%		10.29%	
8	Interest Expenses		-			
9	Finance Charges		-		-	
10	Total Interest & Finance Charges	36.94	-	-36.94	-	

Gujarat State Electricity Corporation Ltd.
True-up for FY 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 7: Return on Regulatory Equity
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(Rs. Crore)

Sr. No.	Particulars	Legend	True-Up Year (FY 2020-21)			FY 2022-23
			Norm	Tariff Order	Claimed in Petition	Projected
1	Regulatory Equity at the beginning of the year	A			161.89	174.87
2	Capitalisation during the year	B			22.47	24.70
3	Equity portion of capitalisation during the year	C			6.74	7.41
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			168.63	182.28
	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			32.86	23.14	25.00

Gujarat State Electricity Corporation Ltd.
True-up for FY 2020-21 and ARR Petition Formats for FY 2022-23 - Generation
Form 8: Non-Tariff Income
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(Rs. Crore)

Sr. No.	Particulars	Reference	True-Up Year (FY 2020-21)			FY 2022-23	Remarks
			Tariff Order	April-March (Audited)	Deviation		
			(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		11.39	3.78	-7.61	3.78	

Note: This form should be submitted for each station separately