

## Summary Sheet

Name of the Company APGENCO

Name of the Power Station : KTPS ABC

(Rs in Crs)

S.No.	Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
1	2	3	4	5	6	7
1.1	Depreciation	67.5	67.5	67.5	67.5	67.5
1.2	Return on Capital Employed <sup>1</sup>	127.61	118.43	108.65	98.9	89.19
1.3	O & M Expenses	147.22	169.7	176.49	183.55	190.89
	<b>Total</b>	<b>342.33</b>	<b>355.63</b>	<b>352.64</b>	<b>349.95</b>	<b>347.58</b>

2.Calculation of Rate of Energy Charge(Rs./kWh)<sup>1</sup>

2.1	Rate of Energy Charge from Primary Fuel (REC) <sup>p<sup>2</sup></sup>	1.225	1.225	1.225	1.225	1.225
2.2	Rate of Energy Charge from Secondary Fuel (REC)	0.059	0.059	0.059	0.059	0.059
2.3	Rate of Energy Charge ex-bus(REC) <sup>3A,3B,3C</sup>	1.284	1.284	1.284	1.284	1.284

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**Plant Characteristics**

**Name of the Company** : APGENCO

**Name of the Power Station** Kothagudem Thermal Power Station (KTPS ABC )

**Basic characteristics of the plant<sup>1</sup>** Coal based thermal plant with conventional Boiler and Steam Turbine

**Special Features of the Plant** Unit 1to 4 are non Reheat type Units of Japanese design. Boiler is of IHI/Japan design and Turbine and Generator are by Hitachi/Japan. Units 5 to 8 were initially of 110MW and were renovated and uprated to 120MW.

**Site Specific Features<sup>2</sup>** A pit head station

**Special Technological Features<sup>3</sup>**

**Environmental Regulation related features<sup>4</sup>** ESPs are provided for pollution control in all the Units. Opacity meters are provided for SPM measurement

**Any other special features**

<b>Fuel Details<sup>5</sup></b>	Primary Fuel	Secondary Fuel	Alternate Fuels
	Coal	Heavy Oil/Light Diesel Oil	

<b>Details</b>	<b>Module number or Unit number</b>								
	Unit.No.	1	2	3	4	5	6	7	8
	Unit-1	Unit-2	Unit-3	Unit-4	Unit-5	Unit-6	Unit-7	Unit-8	
Installed Capacity (IC)	60MW	60MW	60MW	60MW	120MW	120MW	120MW	120MW	
Date of Commercial Operation (COD)	4/7/1966	27-11-1966	27-5-1967	8/7/1967	13-08-1974	19-12-1974	10/3/1977	10/1/1978	

Type of cooling system <sup>6</sup>	Closed cycle cooling system with ND cooling towers	Closed cycle cooling system with ND cooling towers	Closed cycle cooling system with ND cooling towers	Closed cycle cooling system with ND cooling towers	Closed cycle cooling system with ND cooling towers	Closed cycle cooling system with ND cooling towers	Closed cycle cooling system with ND cooling towers	Closed cycle cooling system with ND cooling towers
Type of Boiler Feed Pump <sup>7</sup>	Turbine driven	Turbine driven	Turbine driven	Turbine driven	Motor driven	Motor driven	Motor driven	Motor driven

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**PART-I  
FORM-3**

Normative parameters considered for tariff computations

Name of the Company      APGENCO

Name of the Power Station      KTPS O&M

Year ending March

Particulars	Unit	As per fillings	As per APREC norms
			2009-10
<b>-1</b>		2	3
<b>Rate of Return on Capital Employed</b>	%	<b>15</b>	<b>Not mentioned</b>
<b>Target Availability</b>	%	85.00%	Not mentioned
<b>Target PLF</b>	%	82.80%	Not mentioned
<b>Auxiliary Energy Consumption</b>	%	9.7	9.7
<b>Gross Station Heat Rate</b>	kCal/kWh	2833	2833
<b>Specific Fuel Oil Consumption</b>	ml/kWh	2	2
<b>O&amp;M Cost *</b>	Rs.Lakh/MW	20.44(with 4% Esc.)	5 Years average
<b>Cost of Coal/Lignite for WC<sup>1</sup></b>	in Months	1	1
<b>Cost of Secondary Fuel Oil for WC<sup>1</sup></b>	in Months	1	1
<b>Fuel Cost for WC<sup>2</sup></b>	in Months		
<b>Liquid Fuel Stock for WC<sup>2</sup></b>	in Months		
<b>O &amp; M Expenses for WC</b>	in Months	1	1
<b>Maintenance Spares for WC</b>	%	1	1
<b>Receivables for WC</b>	in Months	2	2
<b>Prime lending Rate of SBI as on _____.</b>	%		
<b>Incentive Rate</b>	Paise / kWh	25	25

\* payrevision commitment of 25% on salaries and allowances is extra from 1.4.2010.

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**Details of Project Specific Loans**

**Name of the Company**

**APGENCO**

**Name of the Power Station**

**KTPS ABC**

(Amount in lacs)

<b>Particulars</b>	<b>Package1</b>	<b>Package2</b>	<b>Package3</b>	<b>Package4</b>	<b>Package5</b>	<b>Package6</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
Source of Loan <sup>1</sup>	PFC	CEA	APGenco Bonds series-III	To be tied up		
Currency <sup>2</sup>	Indian Rupee	Indian Rupee	Indian Rupee	Indian Rupee		
Amount of Loan sanctioned	23128	2233.45	6980	11727		
Amount of Gross Loan drawn upto 31.03.2004/COD <sup>3,4,5,13,15</sup>	13082.53	2233.45	6980	0		
Interest Type <sup>6</sup>	Floating	Fixed	Fixed			
Fixed Interest Rate, if applicable		9%	7.80%			
Base Rate, if Floating Interest <sup>7</sup>						
Margin, if Floating Interest <sup>8</sup>	No	No		Yes/No	Yes/No	Yes/No
Are there any Caps/Floor <sup>9</sup>	No	No				
If above is yes,specify caps/floor	No	No				
Moratorium Period <sup>10</sup>	1 Year					
Moratorium effective from						
Repayment Period <sup>11</sup>	10 Years	10 Years	10 Years			
Repayment effective from			14.06.2011			
Repayment Frequency <sup>12</sup>	Quarterly	Annually	Periodically			
Repayment Instalment <sup>13,14</sup>	48	10	3			
Base Exchange Rate <sup>16</sup>						

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**Statement of Depreciation**

**Name of the Company**

APGENCO

**Name of the Power Station**

KTPS ABC

Rs in Lacks

<b>Financial Year</b>	<b>Upto 2007-08</b>	<b>2008-09</b>	<b>2009-2010</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>2013-14</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>Depreciation on Capital Cost</b>	94390	106117	106117	106117	106117	106117	106117
<b>Depreciation recovered during the Year</b>	6726	6750	6750	6750	6750	6750	6750
<b>Depreciation &amp; Advance against Depreciation recovered during the year</b>	6726	6750	6750	6750	6750	6750	6750
<b>Cumulative Depreciation &amp; Advance against Depreciation recovered upto the year</b>	39349	46099	52849	59599	66349	73099	79849

**Calculation of Return on Capital Employed**

**Name of the Company** APGENCO

**Name of the Power Station** KTPS ABC

(Amount in lacs)

<b>Particulars</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>2013-14</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
Regulated Rate Base <sup>1</sup>	0.15	0.15	0.15	0.15	0.15
WACC <sup>1</sup>	85079	78950	72432	65935	59460
RoCE	12761	11843	10865	9890	8919

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**PART-I**

**FORM- 14**

**Working Capital**

**Name of the Company** APGENCO

**Name of the Power Station** KTPS (ABC)

(Amount in lacs)

<b>Sl. No.</b>	<b>Particulars</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>2013-14</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	Cost of Fuel	4862	4862	4862	4862	4862
2	O & M expenses	1227.00	1414.00	1471.00	1530.00	1591
3	Maintenance Spares	3544.00	3557.00	3982.00	4221.00	4474
4	Recievables	15429.00	15650.00	15600.00	15555.00	15516
	Total Working Capital	25061.00	25682.00	25914.00	26167.00	26442

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**Details/Information to be Submitted in respect of Fuel for Computation of Energy Charges**

**Name of the Company**

**APGENCO**

**Name of the Power Station**

**KTPS ABC**

Sl. No.	Month	Unit	Weighted average	For preceding 3rd Month	For preceding 2nd Month	For preceding 1st Month
1	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MMT)	0.90351	0.312065	0.281989	0.309459
2	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)	0.0649	0.017131	0.067392	0.0649
3	Coal supplied by Coal/Lignite Company (1+2)	(MMT)	0.96841	0.329196	0.349381	0.374359
4	Normative Transit & Handling Losses (For coal/Lignit based Projects)	(MMT)	0.013	0.0056	0.00387	0.0035
5	Net coal / Lignite Supplied (3-4)	(MMT)	0.95541	0.323596	0.345511	0.370859
6	Amount charged by the Coal /Lignite Company	(Rs.)	906079794	313153614	288034607	304891573
7	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	72680861			72680861
8	Total amount Charged (6+7)	(Rs.)	978760655	313153614	288034607	377572434
9	Transportation charges by rail/ship/road transport	( Rs.)	69376948	24318154	21585276	23473518
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	( Rs.)	4922665			4922665
11	Demurrage Charges, if any	( Rs.)				
12	Cost of diesel in transporting coal through MGR system, if applicable	( Rs.)				

13	Total Transportation Charges (9+/-10-11+12)	( Rs.)	74299613	24318154	21585276	28396183
14	Total amount Charged for coal/lignite supplied including Transportation (8+13)	( Rs.)	1053060268	337471768	309619883	405968617
	weighted average price		1102.2077	1101.17556	1113.264045	1094.671066
15	Weighted average GCV of coal/ Lignite as fired	(kCal/Kg)				

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