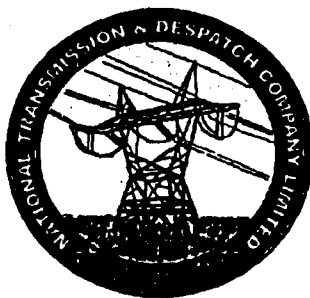


NATIONAL TRANSMISSION AND DISPATCH  
COMPANY LIMITED



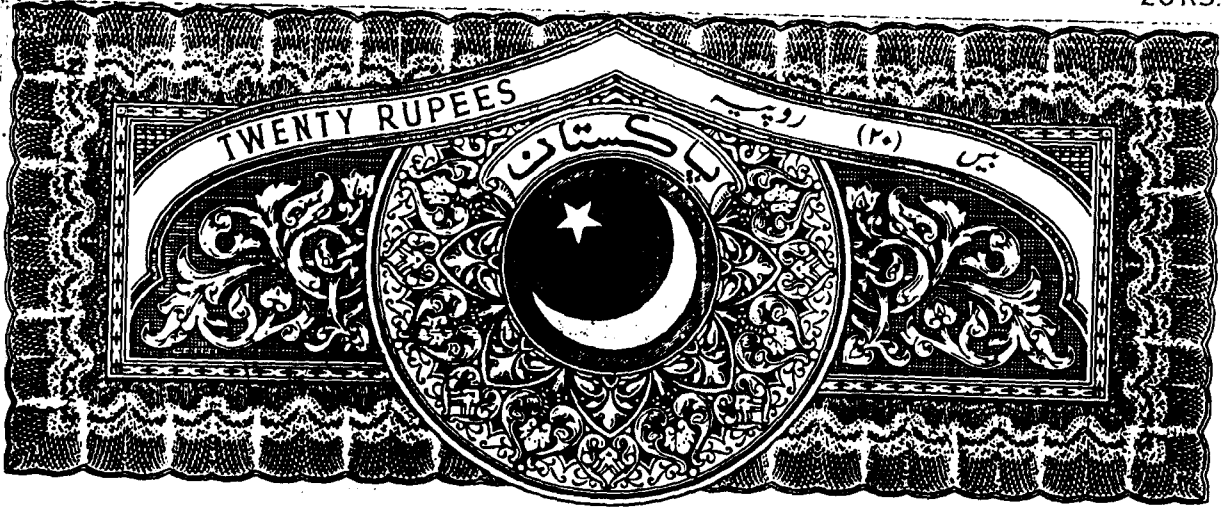
# Tariff Petition NTDC

2010-11

August 13, 2010

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**Before the National Electric Power  
Regulatory Authority**

**Affidavit**


I, Rasul Khan Mahsud, Chief Executive Officer, National Transmission and Despatch Company Limited (Transmission Licensee # TL/01/2002) being duly authorized representative / attorney of National Transmission and Despatch Company Limited, hereby solemnly affirm and declare that the contents of the accompanying petition / application No. 1139-42/FD/NTDC/ T.f. dated 13-08-2010 including all supporting documents are true and correct to the best of my knowledge and belief and that nothing has been concealed. I also affirm that all further documentation and information to be provided by me in connection with the accompanying petition shall be true to the best of my knowledge and belief.

DEPONENT

  
(Rasul Khan Mahsud)  
Chief Executive Officer, NTDC



ATTESTED

  
A. BASHIR  
Oath Commissioner  
Civil Court Lahore.

## 1. Petitioner's Information

### a. Introduction

National Transmission and Dispatch Company Limited (referred as NTDC or the Company hereinafter) 414-Wapda House, Lahore, Pakistan. Company enjoys the status of a public non-listed limited liability company formed under the Companies Ordinance, 1984. It is one of the successor companies of WAPDA and was formed on August 03, 1998 and started commercial operation on March 01, 1999. The company was granted a transmission License by NEPRA on December 31, 2002.

### b. Representatives

Following are the representatives of the company:

- Rasul Khan Mahsud, Chief Executive Officer
- Abdul Majeed Malik, Technical Director
- Abdul Majid Alvi, Finance Director
- Muhammad Daood, General Manager Planning
- Waseem Saadat Shaikh, Manager Finance (CPC)

### c. New Functional Setup

NTDC was entrusted to act as:

- i) System Operator for safe and reliable operation, control and dispatch of generation facilities;
  - ii) Transmission Network Operator for Operation & Maintenance, Planning, Design and expansion of the transmission system; and
  - iii) Contract Registrar and Power Exchange Administrator (CRPEA) to record and monitor contracts relating to bilateral trading system.
  - iv) Central Power Purchasing Agency (CPPA) for procurement of power on behalf of Distribution Companies.
- d. Under the new functional set up of NTDC, the licensee is required to charge only transmission and dispatch charges following UoSC on electricity transmitted by CPPA to DISCOs. The petitioner, therefore, has not catered the transmission losses while preparing the tariff for Use of System Charge.

## 2. Summary of the last Tariff Determination

For the year 2005-06, NEPRA determined and allowed NTDC to charge tariff on the following terms and conditions:

### a. Use of System Charge

NTDC was allowed to charge its users for provision of transmission and allied services the following two part tariff i.e. a fixed and variable charge:

Fixed Charge (UoSCF)	=	Rs.100.15 per kW per month
Variable Charge (UoSCV)	=	Rs.0.1233 per kWh * LAL factor

## Grounds and Facts for the Petition

### Comparison of Revenue Requirement

S/No	Description	Million Rupees		
		2008-09 Actual	2009-10 Prov.	2010-11 Proposed
1.	General Establishment	2,330	2,713	3,387
2.	Repair & Maintenance	515	642	1147
3.	Insurance	79	90	105
4.	Depreciation	2,660	3,084	3,686
5.	Provision for bad debts	20,326		
7.	Financial Charges	3,529	3,365	4,066
8.	Income Tax @ 35%	-	3,264	3,226
9.	Return on Equity	(9858)	6,062	5,990
10.	<b>Total Costs including: Return on Equity (ROE)</b>	<b>19,581</b>	<b>19,220</b>	<b>21,610</b>
11.	Less: Other Income	(1990)	(593)	(623)
12.	<b>Net Revenue Requirement</b>	<b>17,591</b>	<b>18,627</b>	<b>20,987</b>

### Expected Revenue through Use of System Charge

S/No	Description	2008-09 Actual as per NTDC	2009-10 Provisional as per NTDC	2010-11 Estimated as per NTDC
1.	Monthly Average Peak Demand Including KESC (MW)	14,481	15,499	16,274
2.	Tariff Rs./kW/month/	100.15	100.15	107.45
3.	<b>Total Tariff Revenue Mln. Rs.</b>	<b>17,591</b>	<b>18,627</b>	<b>20,987</b>

- c. Development Program required achieving improvements in the operating results of the company and future growth needs of Distribution Companies.

In order to achieve additional operating efficiencies and future development requirements, NTDC has identified the development and capital expenditure requirements for FY 2010-11 as per (*Annexure - V*).

#### 4. Assumptions to the Tariff Petition

Major Assumptions taken into account are detailed hereunder:

##### MW Demand of DISCOs

Overall 5% growth on FY 2009-10 peak demand (MW) has been assumed and same has been attributed to DISCOs after considering the KESC demand for 2010-11.

### Debt Services

The Debt Service (interest + repayment) of the loans has been established on the basis of actual terms and conditions attached to each loan obtained by Wapda/other Financial Institutions. Rs. 120. Bln TFC loans has been adjusted in FY 2009-10 and FY 2010-11.

### Operating Cost

#### General Establishment Expenses

The overall general establishment and admin expenses has been increased by 25%; mainly comprised of pay and salaries which have been increased by the GoP to the tune of 50% of the running basic salaries. Similarly the other increases allowed by GoP like Daily allowance, cash medical allowance and pensions have been accounted for accordingly.

#### Maintenance & Overhauling

To ensure the desired reliability, security and adequacy of the growing transmission network, 0.75% of the average gross fixed assets is assumed as maintenance cost which is in line with the prevalent NEPRA tariff determination. In order to rehabilitate the transmission system from the severe impairment caused by flood in the country and also recover the damages due to terrorist activities couple with the extra security costs, an amount of Rs. 400 million has been envisaged at a very initial stage. However, this amount could be increased as the crises have not been yet over. In this connection, a committee has been formed to determine the quantum of damages caused by flood.

#### Transmission License Renewal Fee (NEPRA)

The transmission license renewal fee has been taken at the level demanded by NEPRA for FY 2008-09 and increased by 8% p.a. in line with local inflation.

#### Insurance

The assets of the Company are covered under WAPDA Equipment Protection Scheme (WEPS). The proportion of insurance during 2008-09 against net fixed asset is 0.15% of value of net value of transmission line and grid station. Same proportion has been assumed for calculation of insurance for FY 2010-11.

#### Corporate Taxation

The income tax has been charged on the prevailing rate of 35% on the income and effect of the same has been assumed as passed through item and will not affect the financial results of the company.

#### Employees' Retirement Obligations

It has been assumed that payments to retired employees shall equate provisions for the period; therefore, Employees' Retirement Obligations have been kept unchanged during the projection period.

#### Receivables

Recovery of billing against Use of System Charge from CPPA has been assumed 100%.

### Payables

100% payment has been assumed to the creditors. The creditors are offset against debtors for the sale and purchase of energy.

### Dividend payout

No dividend payment has been assumed during the projections period. Cash surplus would be utilized towards the expansion / strengthen the transmission system through capital investment of NTDC.

### Return on Equity

15% return on equity has been adopted to calculate tariff requirement from 2010-11 on the basis of rising trends of discount rate.

## 5. Summary of the Petition

NTDC has been allowed to charge the tariff as under:

- Use of System Charge (UoSC) to recover the total costs of NTDC and return on equity

As the revenues of NTDC are to be accrued from Use of System Charge, therefore, NTDC requests NEPRA for increase in the Rate of Use of System Charge. Revenues and profit positions for the actual and projected period for the year 2008-09 to FY 2010-11 are also depicted in the following table.

S/No.	Description	2008-09 Actual	2009-10 (Prov.)	2010-11 (Projected)
1.	Average monthly Demand (MW)	14,481	15,499	16,274
2.	Demand Growth over last year		7.0%	5.0%
3.	Use of System Charge (Rs/kW/Month)	100.15	100.15	107.47
4.	Tariff Increase required (% age over last year)			7.31%
5.	Expected Revenues (Mln. Rs.)	17,591	18,627	20,987
6.	Net Profit / (Loss) Mln. Rs.	(9,858)	6,062	5,990

## 6. Determination Sought

Approval from NEPRA for Rate of Use of System Charge to be charged is requested as under:

For Distribution Companies of WAPDA termed as XWDISCOs

S/No.	Description	2008-09 Current	2009-10 Prov.	2010-11 Proposed
1.	Use of System Charge (Rs/kW/Month)	100.15	100.15	107.45

## **7. List of Attachments**

- Major Assumption to the project (Annex-I)
- Revenue Requirement (Annex-II)
- Financial Statements (Annex-III)
- Monthly Average Peak Demand (MW) of DISCOs Actual / Estimated for the period 2007-08 to 2012-13 (Annex-IV)
- Investment program of NTDC for the period 2010-11. (Annex-V)

**MAJOR ASSUMPTIONS TO THE PROJECTIONS FOR FY 2010-11**

		Provisional FY 2009-10	Proposed FY 2010-11
Monthly Average Peak Demand	<b>MW</b>	15499	16274
Growth in Peak Demand	<b>%age</b>	7.0%	5.0%
Average Use of System Charge (UoSC)	<b>Rs/M/KW</b>	100.15	107.45
Avg. Increase in Tariff	<b>%age</b>	-	7.3%
General Establishment & Admin Expenses	<b>%age</b>	16%	25%
Maintenance Expenses (R&M) (%age of opening GFA)	<b>%age</b>	0.75%	0.75%
Additional R&M Expenses due to Flood impairment	<b>MIn Rs.</b>	-	400
Payables (Payment of current dues)	<b>%age</b>		100%
Receivables (Recovery of current invoices/bills)	<b>%age</b>		100%
Income Tax Rate	<b>%age</b>		35%
Required Rate of Return on Equity	<b>%age</b>		15.00%

While preparing Tariff Petition for 2010-11, only Wheeling Charges of NTDC has been taken into account. It is further assumed that CPPA would become an independent entity shortly.

**NATIONAL TRANSMISSION AND DESPATCH COMPAN**  
**Revenue Requirement (Mln. Rs.)**

**Annex-II**

<b>Sr. No.</b>	<b>Description</b>	<b>FY 2008-09</b>	<b>FY 2009-10</b>	<b>FY 2010-11</b>
<b>1-</b>	<b>Transmission Costs</b>			
	a) General Establishment & Admin	2,330	2,713	3,387
	b) Repair & Maintenance	515	642	1,147
	c) Insurance	79	90	105
	d) Provision for Bad Debt	20,326	-	-
	e) Depreciation	2,660	3,084	3,686
	<b>Total</b>	<b>25,912</b>	<b>6,529</b>	<b>8,325</b>
<b>2-</b>	<b>Financial Charges</b>			
	a) Foreign Direct Loans (WAPDA)	126	33	-
	Foreign Relent Loans (WAPDA)	1,824	1,488	1,380
	b) Central Government loans (WAPDA)	237	212	190
	c) Relent loans from GoP (NTDC)	796	1,053	1,624
	d) Foreign Direct Loan - NTDC	-	-	124
	e) WAPDA Bonds	-	-	-
	g) Local Loans (other Loan)	1,214	1,227	1,396
	i) TFCs	-	-	-
	j) Others	450	-	-
	Currency Flucation	365		
	k) Bank Charges	9	1	2
	<b>Total</b>	<b>5,022</b>	<b>4,015</b>	<b>4,716</b>
	Less charge to WIP	<b>(1,494)</b>	<b>(650)</b>	<b>(650)</b>
	<b>Net Financial Charges</b>	<b>3,529</b>	<b>3,365</b>	<b>4,066</b>
	<b>Total Costs (1+2)</b>	<b>29,440</b>	<b>9,894</b>	<b>12,391</b>
<b>3-</b>	<b>Return on Equity</b>	<b>-9,858</b>	<b>6,062</b>	<b>5,990</b>
	<b>Income Tax</b>	<b>-</b>	<b>3,264</b>	<b>3,226</b>
	<b>Total Costs inclu: Return on Equity</b>	<b>19,582</b>	<b>19,220</b>	<b>21,607</b>
<b>5-</b>	<b>Less: Other Income</b>	<b>1,990</b>	<b>593</b>	<b>623</b>
	<b>Revenue Requirement (Mln. Rs.)</b>	<b>17,591</b>	<b>18,627</b>	<b>20,984</b>

## NATIONAL TRANSMISSION AND DESPATCH COMPANY LIMITED

## PROFIT AND LOSS ACCOUNT

Mln. Rs.

	2008-09	2009-10	2010-11
	Actual	Provisional	Projected
<b>SALES:</b>			
Use of System Charge	17,591	18,627	20,984
Sales to DISCO & KESC	449,946	580,024	-
<b>Total</b>	<b>467,538</b>	<b>598,651</b>	<b>20,984</b>
	-	-	-
<b>OPERATING COSTS</b>			
Cost of electricity	449,946	580,024	-
Other operating costs	5,585	6,529	8,325
Provision for doubtful debts	20,326	-	-
	<b>475,857</b>	<b>586,553</b>	<b>8,325</b>
<b>OPERATING PROFIT / (LOSS)</b>	<b>(8,320)</b>	<b>12,098</b>	<b>12,659</b>
<b>OTHER INCOME</b>	<b>(1,990)</b>	<b>(593)</b>	<b>(623)</b>
<b>Profit / (Loss) before interest &amp; Tax</b>	<b>(6,330)</b>	<b>12,691</b>	<b>13,282</b>
Financial Charges	3,529	3,365	4,066
<b>Profit / (Loss) before Tax</b>	<b>(9,858)</b>	<b>9,326</b>	<b>9,216</b>
Income Tax	-	3,264	3,226
<b>Profit after Tax</b>	<b>(9,858)</b>	<b>6,062</b>	<b>5,990</b>
<b>ACCUMULATED PROFIT / (LOSS) B/ F</b>	<b>(21,800)</b>	<b>(31,658)</b>	<b>(25,596)</b>
<b>ACCUMULATED PROFIT / (LOSS) C/F TO BALANCE SHEET</b>	<b>(31,658)</b>	<b>(25,596)</b>	<b>(19,606)</b>

The tariff of the FY 2010-11 has been calculated only for wheeling charges and therefore it does not include transmission losses.

**Annex-III** 2/3

**NATIONAL TRANSMISSION AND DESPATCH COMPANY LIMITED**  
**BALANCE SHEET**

Mln. Rs.

	2008-09 Actual	2009-10 Provisional	2010-11 Projected
SHARE CAPITAL	0.50	0.50	0.50
ACCUMULATED PROFIT / (LOSS)	(31,658)	(25,596)	(19,606)
	<u>(31,658)</u>	<u>(25,596)</u>	<u>(19,605)</u>
DEPOSIT FOR SHARES	59,542	59,542	59,542
<b>NON CURRENT LIABILITIES</b>			
Deferred Credit	570	570	570
Long term loans	121,823	28,138	37,268
Deferred Liabilities	5,367	5,837	6,348
	<u>127,760</u>	<u>34,545</u>	<u>44,187</u>
<b>CURRENT LIABILITIES</b>			
Current portion of long term loans	28,680	38,976	4,197
Creditors	299,701	405,130	405,130
Others liabilities	24,447	24,297	24,047
	<u>352,829</u>	<u>468,404</u>	<u>433,374</u>
<b>CONTINGENCIES AND COMMITMENTS</b>	<u>-</u>	<u>-</u>	<u>-</u>
	<u><b>508,473</b></u>	<u><b>536,894</b></u>	<u><b>517,497</b></u>
<b>NON CURRENT ASSETS</b>			
Operating fixed assets	52,395	63,566	73,111
Capital work in progress	28,514	31,906	37,577
Long term deposits and deferred cost	0.45	4	4
Long term loans and advances	13,906	179	183
	<u>94,815</u>	<u>95,655</u>	<u>110,874</u>
<b>CURRENT ASSETS</b>			
Stores and spares	7,222	7,723	8,258
Trade debts & Other receivables	399,318	429,703	396,567
Short term investments	1	-	-
Cash and bank balances	7,118	3,813	1,798
	<u>413,659</u>	<u>441,239</u>	<u>406,624</u>
	<u><b>508,473</b></u>	<u><b>536,894</b></u>	<u><b>517,497</b></u>

**NATIONAL TRANSMISSION AND DESPATCH COMPANY LIMITED**  
**CASH FLOW STATEMENT**

Mln. Rs.

	2008-09 Actual	2009-10 Provisional	2010-11 Projected
<b>1- CASH FLOWS FROM OPERATING ACTIVITIES</b>			
Profit / (Loss) for the year	(9,858)	6,062	5,990
Add			
Depreciation	2,660	3,084	3,686
Provision for doubtful debts	20,326	-	-
Others	4,357	3,365	4,066
	17,486	12,511	13,742
<b>Working capital changes:</b>			
<b>(Increase)/decrease in current assets:</b>			
Stores, spare parts and loose tools	(28)	(501)	(535)
Trade debts	(172,331)	(30,384)	33,312
<b>(Increase)/decrease in current Liabilities:</b>			
Sundry Creditors	54,709	105,429	-
Other Current Liabilities	(4,865)	320	261
	(122,515)	74,864	33,038
Net Cash from operating activities	(105,029)	87,375	46,780
<b>2- CASH FLOWS FROM INVESTING ACTIVITIES</b>			
Net increase in Fixed Assets	(13,591)	(17,648)	(19,077)
Sales of fixed assets	37	-	-
Decrease/(Increase) in long-term deposits	0.02	13,723	(4)
Net cash used in investing activities	(13,554)	(3,925)	(19,081)
<b>3- CASH FLOWS FROM FINANCING ACTIVITIES</b>			
Increase in deposit for shares	3,001	-	-
Increase in Loan	110,507	(83,390)	(25,648)
Increase / Decrease in Deferred Credits	-	(0.07)	(0.07)
Others	-	(3,365)	(4,066)
Net cash from financing activities	113,508	(86,755)	(29,714)
Net (decrease)/increase in cash and cash equivalents during year	(5,075)	(3,304)	(2,015)
Cash and cash equivalents at beginning of year	12,193	7,118	3,814
Cash and cash equivalents at end of year	7,118	3,814	1,799

## DISCO-wise Peak demand (MW)

FY 2009-10 (Provisional)

Avg Peak Demand in MW

DISCOs	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Average
LESCO	3,384	3,481	3,448	3,071	2,724	2,723	3,020	3,100	2,840	3,239	4,069	3,173	3,189
GEPCO	1,742	1,599	1,588	1,507	1,276	1,241	1,465	1,392	1,535	1,772	1,388	1,872	1,531
FESCO	1,976	1,986	1,944	1,808	1,549	1,651	1,296	1,611	1,543	1,816	2,169	2,113	1,788
IESCO	1,419	1,510	1,667	1,455	1,003	1,552	1,395	931	1,240	1,396	1,563	1,489	1,385
MEPCO	1,934	2,060	2,167	2,266	2,244	2,154	2,302	2,170	2,108	2,045	2,777	2,492	2,227
HESCO	1,573	1,753	1,868	1,485	1,467	1,251	1,396	1,563	1,608	1,762	1,796	1,720	1,603
QESCO	839	891	801	843	888	836	819	839	843	798	898	880	848
PESCO	2,165	2,144	2,309	2,251	2,088	2,019	2,084	2,049	2,096	2,160	2,159	2,292	2,151
<b>Total</b>	<b>15,031</b>	<b>15,424</b>	<b>15,793</b>	<b>14,684</b>	<b>13,240</b>	<b>13,426</b>	<b>13,778</b>	<b>13,655</b>	<b>13,812</b>	<b>14,987</b>	<b>16,819</b>	<b>16,031</b>	<b>14,723</b>
KESC	870	830	800	770	760	790	710	720	790	820	710	740	776
<b>Total</b>	<b>15,901</b>	<b>16,254</b>	<b>16,593</b>	<b>15,454</b>	<b>14,000</b>	<b>14,216</b>	<b>14,488</b>	<b>14,375</b>	<b>14,602</b>	<b>15,807</b>	<b>17,529</b>	<b>16,771</b>	<b>15,499</b>

## NATIONAL TRANSMISSION AND DESPATCH COMPANY

## DISCO-wise Proposed Revenue

FY 2009-10

Rs. In Million

DISCOs	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
LESCO	339	349	345	308	273	273	302	310	284	324	407	318	3,833
GEPCO	174	160	159	151	128	124	147	139	154	178	139	187	1,840
FESCO	198	199	195	181	155	165	130	161	154	182	217	212	2,149
IESCO	142	151	167	146	100	155	140	93	124	140	157	149	1,664
MEPCO	194	206	217	227	225	216	231	217	211	205	278	250	2,676
HESCO	158	176	187	149	147	125	140	157	161	176	180	172	1,927
QESCO	84	89	80	84	89	84	82	84	84	80	90	88	1,019
PESCO	217	215	231	225	209	202	209	205	210	216	216	230	2,585
<b>Total</b>	<b>1,505</b>	<b>1,545</b>	<b>1,582</b>	<b>1,471</b>	<b>1,326</b>	<b>1,345</b>	<b>1,380</b>	<b>1,368</b>	<b>1,383</b>	<b>1,501</b>	<b>1,684</b>	<b>1,605</b>	<b>17,694</b>
KESC	87	83	80	77	76	79	71	72	79	82	71	74	932
<b>Total</b>	<b>1,592</b>	<b>1,628</b>	<b>1,662</b>	<b>1,548</b>	<b>1,402</b>	<b>1,424</b>	<b>1,451</b>	<b>1,440</b>	<b>1,462</b>	<b>1,583</b>	<b>1,756</b>	<b>1,680</b>	<b>18,627</b>

## DISCO-wise Peak demand (MW)

FY 2010-11 (Proposed)

Avg Peak Demand in MW

DISCOs	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Average
LESCO	3,579	3,682	3,647	3,248	2,882	2,880	3,195	3,279	3,004	3,426	4,304	3,357	3,374
GEPCO	1,843	1,691	1,680	1,594	1,349	1,312	1,550	1,473	1,624	1,875	1,468	1,980	1,620
FESCO	2,090	2,101	2,056	1,912	1,639	1,746	1,371	1,704	1,632	1,921	2,294	2,235	1,892
IESCO	1,501	1,598	1,764	1,539	1,061	1,641	1,476	984	1,312	1,476	1,653	1,575	1,465
MEPCO	2,046	2,179	2,293	2,397	2,374	2,279	2,435	2,295	2,230	2,163	2,938	2,636	2,355
HESCO	1,664	1,854	1,976	1,570	1,552	1,323	1,477	1,653	1,701	1,864	1,900	1,820	1,696
QESCO	888	942	848	891	940	885	867	888	891	844	950	931	897
PESCO	2,290	2,268	2,443	2,381	2,209	2,136	2,204	2,167	2,217	2,285	2,284	2,424	2,276
<b>Total</b>	<b>15,899</b>	<b>16,315</b>	<b>16,705</b>	<b>15,532</b>	<b>14,005</b>	<b>14,202</b>	<b>14,574</b>	<b>14,444</b>	<b>14,611</b>	<b>15,853</b>	<b>17,791</b>	<b>16,957</b>	<b>15,574</b>
KESC	700	700	700	700	700	700	700	700	700	700	700	700	700
<b>Total</b>	<b>16,599</b>	<b>17,015</b>	<b>17,405</b>	<b>16,232</b>	<b>14,705</b>	<b>14,902</b>	<b>15,274</b>	<b>15,144</b>	<b>15,311</b>	<b>16,553</b>	<b>18,491</b>	<b>17,657</b>	<b>16,274</b>

## NATIONAL TRANSMISSION AND DESPATCH COMPANY

## DISCO-wise Proposed Revenue

FY 2010-11

Rs. In Million

DISCOs	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
LESCO	385	396	392	349	310	310	343	352	323	368	463	361	4,351
GEPCO	198	182	181	171	145	141	167	158	174	201	158	213	2,089
FESCO	225	226	221	205	176	188	147	183	175	206	247	240	2,440
IESCO	161	172	190	165	114	176	159	106	141	159	178	169	1,889
MEPCO	220	234	246	258	255	245	262	247	240	232	316	283	3,037
HESCO	179	199	212	169	167	142	159	178	183	200	204	196	2,187
QESCO	95	101	91	96	101	95	93	95	96	91	102	100	1,157
PESCO	246	244	262	256	237	230	237	233	238	246	245	261	2,935
<b>Total</b>	<b>1,709</b>	<b>1,753</b>	<b>1,795</b>	<b>1,669</b>	<b>1,505</b>	<b>1,526</b>	<b>1,566</b>	<b>1,552</b>	<b>1,570</b>	<b>1,704</b>	<b>1,912</b>	<b>1,822</b>	<b>20,084</b>
KESC	75	75	75	75	75	75	75	75	75	75	75	75	903
<b>Total</b>	<b>1,784</b>	<b>1,829</b>	<b>1,870</b>	<b>1,744</b>	<b>1,580</b>	<b>1,601</b>	<b>1,641</b>	<b>1,627</b>	<b>1,645</b>	<b>1,779</b>	<b>1,987</b>	<b>1,898</b>	<b>20,987</b>

**NATIONAL TRANSMISSION & DESPATCH COMPANY LIMITED  
INVESTMENT PROGRAM (PSDP) - NTDC**

S.No.	PROJECTS	PROJECT COST	2007-08 ACTUAL	2008-09 ACTUAL	2009-10 PROV.	Min.Rs.
						2010-11 ESTIMATED
<b>ON GOING PROJECTS</b>						
1	Transmission arrangement for Power Dispersal of Ghazi Barotha Local Component (LCC) Foreign Component (FCC) Total:	7,137.00 6,990.00 14,127.00	134.31 921.22 1,055.53	726.90 3,788.76 4,515.66	359.44 1,240.00 1,599.44	199.74 256.26 456.00
2	Muzaffargarh - Gatti 500 KV Transmission Line Local Component (LCC) Foreign Component (FCC) Total:	1,795.00 4,976.00 6,771.00	2,937.24 2,937.24 2,937.24	1,333.41 1,333.41 1,333.41	652.31 652.31 652.31	- - -
3	Up-Grading of NPCC Islamabad Local Component (LCC) Foreign Component (FCC) Total:	1,015.00 1,880.00 2,895.00	11.90 11.90 11.90	107.30 107.30 107.30	65.39 65.39 65.39	922.99 1,000.00 1,922.99
4	NTDC-KESC 500/220 KV Inter Connection Facility Karachi Local Component (LCC) Foreign Component (FCC) Total:	1,340.00 1,749.00 3,089.00	513.52 513.52 513.52	57.03 57.03 57.03	68.18 68.18 68.18	133.87 133.87 133.87
5	New 500 KV G/Station at Sahiwal alongwith 220 KV System Expansion Local Component (LCC) Foreign Component (FCC) Total:	1,161.00 1,748.00 2,909.00	200.09 200.09 200.09	336.05 336.05 336.05	400.75 400.75 400.75	412.00 200.00 612.00
6	Addition of 3rd 500/220 KV Transformer bay at Rawat Grid Station Local Component (LCC) Foreign Component (FCC) Total:	362.00 591.00 953.00	19.61 19.61 19.61	11.44 11.44 11.44	- - -	- - -
7	New 220 KV G/S at Khuzdar, 220 KV Dadu Khuzdar D/C T/L Local Component (LCC) Foreign Component (FCC) Total:	1,648.00 1,253.00 2,901.00	11.44 11.44 11.44	586.31 1,757.98 2,344.29	835.00 1,309.34 2,144.34	2,069.00 931.00 3,000.00
8	220 KV G/S at Ghazi Road Lahore with 220 KV D/C T/L 132 KV Expansion System Local Component (LCC) Foreign Component (FCC) Total:	1,324.00 1,267.00 2,591.00	6.90 6.90 6.90	34.33 34.33 34.33	- 12.53 12.53	460.00 640.00 1,100.00
9	Extension of 8 Nos. New 220 KV G/S of NTDC System Local Component (LCC) Foreign Component (FCC) Total:	1,043.00 1,297.00 2,340.00	194.00 194.00 194.00	- - -	- - -	- - -
10	5th STF Local Component (LCC) Foreign Component (FCC) Total:	18,316.00 28,750.00 47,066.00	93.97 93.97 93.97	- - -	- - -	- - -
11	500 KV Transmission System for Despersal of Power from Thar Coal Project Local Component (LCC) Foreign Component (FCC) Total:	2,913.00 2,599.00 5,512.00	- - -	- - -	- - -	60.00 60.00 60.00
12	220 KV G/S at Kassowal with 132 KV Expansion System Local Component (LCC) Foreign Component (FCC) Total:	1,256.00 811.00 2,067.00	4.83 4.83 4.83	5.34 5.34 5.34	19.75 739.12 758.86	400.00 800.00 1,200.00
13	Provision of secured metering system at delivery point Local Component (LCC) Foreign Component (FCC) Total:	496.00 513.00 1,009.00	232.30 232.30 232.30	91.90 91.90 91.90	80.07 80.07 80.07	371.00 371.00 371.00
14	Power System Transmission Enhancement-II (Preparatory work) Local Component (LCC) Foreign Component (FCC) Total:	12.10 36.20 48.30	0.12 0.12 0.12	33.68 33.68 33.68	0.05 0.05 0.05	9.16 0.60 9.76
15	Power Transmission Enhancement Project (19 Sub Projects of 500/220 KV Sub Stations and T/Lines) Local Component (LCC) Foreign Component (FCC) Total:	4,503.00 8,114.00 12,617.00	790.47 1,000.00 1,790.47	983.00 1,876.85 2,859.85	1,232.38 900.00 2,132.38	500.00 1,500.00 2,000.00
16	220 KV T/L from Chashma to Ludewala for inter connection of chshnupp-II Local Component (LCC) Foreign Component (FCC) Total:	1,045.00 1,012.00 2,057.00	- - -	- - -	3,580.53 3,580.53 3,580.53	557.00 557.00 557.00

**NATIONAL TRANSMISSION & DESPATCH COMPANY LIMITED**  
**INVESTMENT PROGRAM (PSDP) - NTDC**

S.No.	PROJECTS	PROJECT COST	2007-08 ACTUAL	2008-09 ACTUAL	2009-10 PROV.	Min.Rs.
						2010-11 ESTIMATED
17	Feasibility study for Despersal of Power from Imported coal at Karachi Local Component (LCC) Foreign Component (FCC) Total:	82.00 95.00 177.00	-	-	-	107.00
18	Feasibility study for despersal of power from imported 1000 MW Power from Iran Local Component (LCC) Foreign Component (FCC) Total:	75.00 - 75.00	-	-	-	35.00
19	Feasibility study for despersal of Power from Bashah Hydro Power project Local Component (LCC) Foreign Component (FCC) Total:	208.00 75.60 283.60	-	-	-	140.80
21	4 Nos. New Projects to be financed by JBIC (i) 500 KV R.Y. Khan G/S & T/L (ii) 220 KV Chistian T/L (iii) 220 KV Gujrat G/S & 220 KV T/L (iv) 220 KV Shalamar G/S & 220 KV T/L (4 projects - JBIC Loan) Local Component (LCC) Foreign Component (FCC) Total:	2,435.00 7,787.00 10,222.00	-	186.00	146.90	1,120.00 880.00 2,000.00
22	Interconnection of 9 IPPS with National Grids Local Component (LCC) Foreign Component (FCC) Total:	982.00 128.00 1,108.00	-	707.07	358.00	81.98
23	National Power System Expension Plan Local Component (LCC) Foreign Component (FCC) Total:	171.54 318.94 490.48	-	707.07	358.00	195.00
24	Power Transmission Enhancement Project (Tranch-II) 10 Sub Projects: (i) 9 Sub Projects of 500 KV & 220 KV S/S & T/Lines Local Component (LCC) Foreign Component (FCC) Total:	9,275.00 10,918.00 20,193.00	-	583.00	535.00 3,138.18	500.00 1,500.00 2,000.00
25	(ii) 1 No. 220 KV Rohri Sub Station & Associated T/L for Dispersal of Power from IPPs Fauji Foundation & ENGRO near Karachi Local Component (LCC) Foreign Component (FCC) Total:	2,435.00 2,412.00 4,847.00	-	-	510.00 62.00 572.00	1,000.00 700.00 1,700.00
26	Inter Connection of 6 IPPs with National Grids Local Component (LCC) Foreign Component (FCC) Total:	1,042.36 638.86 1,681.22	-	406.08	560.00	800.00
<b>NEW PROJECTS (TOBE INCLUDED IN PSDP)</b>						
30	Interconnection for Dispersal of power form Barge Mounted Karkey rental power plant phase-I (231.8MW anchored at Korangi Karachi) Local Component (LCC) Foreign Component (FCC) Total:	414.00 594.00 1,008.00	-	-	840.00	840.00
31	220/132KV Dera Murad Jamali Sub Station Local Component (LCC) Foreign Component (FCC) Total:	390.00 452.00 842.00	-	-	-	10.00 10.00 20.00
32	Transmission for Dispersa Powerl from Neelam Jehlun Hydro Power Project Local Component (LCC) Foreign Component (FCC) Total:	6,336.90 4,879.48 11,216.38	-	-	-	100.00 100.00 200.00
33	Dispersal of powerfrom imported 1000MW Power from Iran Local Component (LCC) Foreign Component (FCC) Total:	1,730.00 1,934.00 3,664.00	-	-	-	100.00 100.00 200.00
	Grand Total (LCC) (FCC) Total		5,150.70 1,921.22 7,071.92	6,155.14 7,457.27 13,612.41	10,243.74 7,401.16 17,644.91	10,284.53 8,617.87 18,902.39