

**PUNJAB STATE POWER CORPORATION LIMITED**

**VOLTAGE WISE-CATEGORY WISE**

**COST OF SUPPLY**

**FOR FY 2015-16**

Submitted to

**Hon'ble Punjab State Electricity Regulatory Commission  
Chandigarh**

Submitted by:

**PUNJAB STATE POWER CORPORATION LIMITED  
The Mall, Patiala – 147001  
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**TABLE OF CONTENTS**

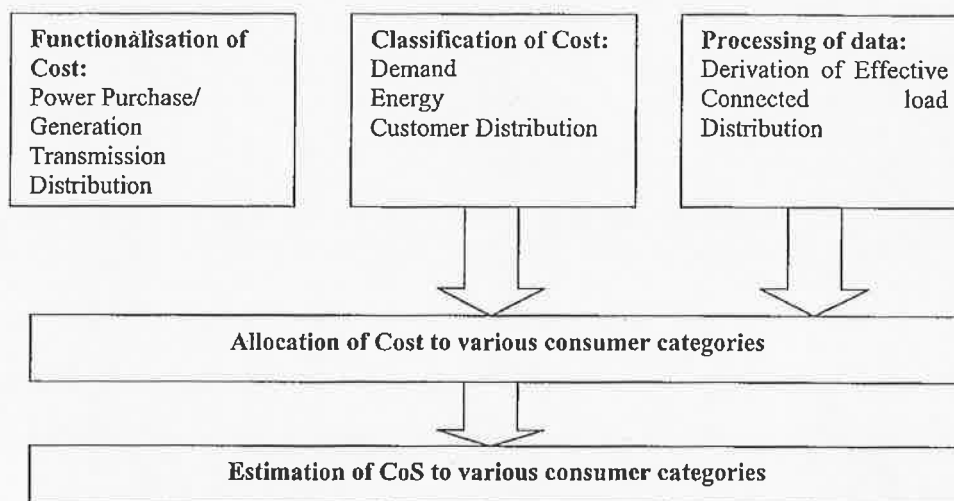
<b>1. COST OF SUPPLY DETERMINATION FOR FY 2015-16.....</b>	<b>3</b>
1.1. Methodology for determination of cost of supply.....	3
1.2. Functionalisation of Cost of supply of PSPCL into various functions.....	3
1.3. Classification of cost into Demand, Energy and Customer related cost .....	3
1.4. Allocation of Demand related cost.....	4
1.5. Allocation of Energy and Customer related cost.....	5
1.6. Voltage wise-category wise Cost of supply.....	6



## 1. COST OF SUPPLY DETERMINATION FOR FY 2015-16

### 1.1. Methodology for determination of cost of supply

1.1.1. Hon'ble Commission in tariff Order for FY 2013-14 has stipulated the methodology (as referred as Methodology-II in Order) for determination of voltage-wise category-wise cost of supply. The methodology has been depicted as under:



Accordingly, PSPCL has determined the voltage-wise category wise cost of supply for FY2015-16 based on the projected ARR.

### 1.2. Functionalisation of Cost of supply of PSPCL into various functions

Sr. No.	Function	Cost (Rs. Crore)
1	Generation	20,921.66
2	Transmission	1,056.42
3	Distribution	6,703.57
4	<b>Total</b>	<b>28,681.65</b>

### 1.3. Classification of cost into Demand, Energy and Customer related cost

Sr. No.	Function	Demand (Rs. Crore)	Energy (Rs. Crore)	Customer (Rs. Crore)	Total Cost (Rs. Crore)
1	Generation	-	20,921.66	-	20,921.66
2	Transmission	-	1,056.42	-	1,056.42
3	Distribution	4,111.54	-	2,592.03	6,703.57
4	<b>Total</b>	<b>4,111.54</b>	<b>21,978.08</b>	<b>2,592.03</b>	<b>28,681.65</b>

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**1.4. Allocation of Demand related cost**

Voltage of supply	Consumer category	Allocation of Demand Related Cost				Distribution	Retail supply	Total (Rs. Crore)
		Connected Load	Demand Factor	Effective Connected Load	% Share in Total Connected Load of Utility			
220 kV	Industry	1,03,168	75%	77,376	0.54%	0.35	1.15	1.50
	Traction	59,891	100%	59,891	0.42%	0.27	0.89	1.16
132 kV	Industrial	2,80,091	75%	2,10,068	1.47%	1.45	3.12	4.57
	Bulk	27,668	60%	16,601	0.12%	0.11	0.25	0.36
	Traction	12,028	100%	12,028	0.08%	0.08	0.18	0.26
66 kV	Industrial	18,46,786	75%	13,85,089	9.67%	229.11	20.58	249.69
	Bulk	1,06,566	75%	79,925	0.56%	13.22	1.19	14.41
	Common Pool	43,024	75%	32,268	0.23%	5.34	0.48	5.82
	Commercial	10,943	40%	4,377	0.03%	0.72	0.07	0.79
33 kV	Industrial	71,489	60%	42,894	0.30%	6.95	0.64	7.59
	Domestic	8,363	60%	5,018	0.04%	0.81	0.07	0.89
	Bulk	18,521	60%	11,113	0.08%	1.80	0.17	1.97
11 kV	Industry LS	39,71,913	60%	23,83,148	16.64%	626.21	35.41	661.62
	Domestic	99,449	30%	29,835	0.21%	7.84	0.44	8.28
	Commercial	5,32,331	40%	2,12,933	1.49%	55.95	3.16	59.12
	Bulk	2,08,791	60%	1,25,274	0.87%	32.92	1.86	34.78
LT	Industry SP	10,38,745	60%	6,23,247	4.35%	188.69	9.26	197.95
	Industry MS	18,10,126	60%	10,86,075	7.59%	328.81	16.14	344.95
	Domestic (0-100)	62,18,570	30%	18,65,571	13.03%	564.81	27.72	592.53
	Domestic (101-300)	34,86,032	30%	10,45,810	7.30%	316.62	15.54	332.16
	Domestic (above 300)	17,64,348	30%	5,29,304	3.70%	160.25	7.86	168.11
	Agriculture	93,50,587	33%	31,16,551	21.77%	943.55	46.31	989.86
	Commercial	32,49,252	40%	12,99,701	9.08%	393.49	19.31	412.80
	Public Lighting	54,424	100%	54,424	0.38%	16.48	0.81	17.29
	Bulk	24,285	40%	9,714	0.07%	2.94	0.14	3.09
	<b>Total</b>	<b>3,43,97,391</b>		<b>1,43,18,234</b>		<b>3898.79</b>	<b>212.75</b>	<b>4111.54</b>

## 1.5. Allocation of Energy and Customer related cost

Voltage of supply	Consumer category	Sales (MU)	% losses	Division of losses (MU)	Total Power Purchased	% share in Net power purchase	Energy Related Cost	Total (Rs. Crore)
220 kV	Industry	232	2.50%	7	239.70	0.46%	114.08	114.08
	Traction	136	2.50%	4	140.27	0.27%	66.76	66.76
132 kV	Industrial	356	2.50%	11	367.86	0.71%	175.08	175.08
	Bulk	57	2.50%	2	59.31	0.11%	28.23	28.23
	Traction	17	2.50%	1	17.15	0.03%	8.16	8.16
66 kV	Industrial	3937	4.53%	232	4169.00	8.08%	1984.26	1984.26
	Bulk	200	4.53%	12	211.47	0.41%	100.65	100.65
	Common Pool	312	0	0	312.00	0.60%	148.50	148.50
	Commercial	14	4.53%	1	14.92	0.03%	7.10	7.10
33 kV	Industrial	120	4.53%	7	126.67	0.25%	60.29	60.29
	Domestic	4	4.53%	0	4.06	0.01%	1.93	1.93
	Bulk	36	4.53%	2	38.47	0.07%	18.31	18.31
11 kV	Industry LS	7138	7.90%	761	7899.21	15.30%	3759.68	3759.68
	Domestic	115	7.90%	12	127.36	0.25%	60.62	60.62
	Commercial	585	7.90%	62	646.92	1.25%	307.90	307.90
	Bulk	327	7.90%	35	361.82	0.70%	172.21	172.21
LT	Industry SP	947	16.00%	224	1171.51	2.27%	557.59	557.59
	Industry MS	1992	16.00%	471	2463.38	4.77%	1172.46	1172.46
	Domestic (0-100)	6722	16.00%	1591	8312.79	16.10%	3956.53	3956.53
	Domestic (101-300)	3768	16.00%	892	4660.02	9.03%	2217.97	2217.97
	Domestic (above 300)	1907	16.00%	451	2358.53	4.57%	1122.56	1122.56
	Agriculture	11374	16.00%	2692	14066.42	27.25%	6695.01	6695.01
	Commercial	2870	16.00%	679	3548.81	6.87%	1689.08	1689.08
	Public Lighting	203	16.00%	48	251.56	0.49%	119.73	119.73
	Bulk	43	16.00%	10	53.36	0.10%	25.40	25.40
	<b>Total</b>	<b>43,412</b>		<b>8210</b>	<b>51,622.55</b>		<b>24570.11</b>	<b>24570.11</b>

### 1.6. Voltage wise-category wise Cost of supply

Voltage of Supply A	Consumer Category B	Cost of Supply (Rs Crore)		Cost of Supply (Rs / kWh)		
		Demand C	Energy / Customer D	Demand E	Energy / Customer F	Total G = E+F
220 kV	Industry	1.50	114.08	0.06	4.91	4.98
	Traction	1.16	66.76	0.09	4.91	5.00
132 kV	Industrial	4.57	175.08	0.13	4.91	5.04
	Bulk	0.36	28.23	0.06	4.91	4.97
	Traction	0.26	8.16	0.16	4.91	5.07
66 kV	Industrial	249.69	1984.26	0.63	5.04	5.67
	Bulk	14.41	100.65	0.72	5.04	5.76
	Common Pool	5.82	148.50	0.19	4.76	4.95
	Commercial	0.79	7.10	0.56	5.04	5.60
33 kV	Industrial	7.59	60.29	0.63	5.04	5.67
	Domestic	0.89	1.93	2.31	5.04	7.35
	Bulk	1.97	18.31	0.54	5.04	5.58
11 kV	Industry LS	661.62	3759.68	0.93	5.27	6.19
	Domestic	8.28	60.62	0.72	5.27	5.99
	Commercial	59.12	307.90	1.01	5.27	6.28
	Bulk	34.78	172.21	1.06	5.27	6.33
LT	Industry SP	197.95	557.59	2.09	5.89	7.98
	Industry MS	344.95	1172.46	1.73	5.89	7.62
	Domestic (0-100)	592.53	3956.53	0.88	5.89	6.77
	Domestic (101-300)	332.16	2217.97	0.88	5.89	6.77
	Domestic (above 300)	168.11	1122.56	0.88	5.89	6.77
	Agriculture	989.86	6695.01	0.87	5.89	6.76
	Commercial	412.80	1689.08	1.44	5.89	7.32
	Public Lighting	17.29	119.73	0.85	5.89	6.74
	Bulk	3.09	25.40	0.72	5.89	6.60
<b>Total</b>		<b>4111.54</b>	<b>24570.11</b>			