



**Central Power Purchasing Agency Guarantee Limited**  
A Company of Government of Pakistan



No. CEO/CPPA-G/7661

23<sup>th</sup> February, 2017

The Registrar NEPRA,  
NEPRA Tower, Attaturk Avenue,  
G-5/1, Islamabad.

**Subject: - ENERGY PURCHASE DATA FOR THE MONTH OF JANUARY-2017**

Monthly Energy Purchase Data for December-2016 along with complete detail of all charges taken into account is enclosed herewith. It is mentioned that Soft copy of the same is being sent to AD (Tariff), NEPRA.

It is certified that Energy during Billing Month was procured from all Power Producers having valid Generation License except TPS-Quetta of GENCO-II. Company has been asked for to provide Generation License in respect of its Thermal Power Station at Quetta. Certificate(s) provided by quarters concerned are enclosed.

D.A. (As Above)

For information & M.A.A.

Chief Financial Officer

— SAT - I

Gen. M.

— SACTeh

24.02.17

— DG (MSE)

cc: chairman

— Dir (L&Y)

vc (MCT)

— M/F

MCC

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1274  
 24.02.17

Registrar  
By No. 17.4.6  
Dated 24.02.17

CENTRAL POWER PURCHASING AGENCY (CPPA)  
Energy Procurement Report (Provisional)  
Jan 2017

S.No.	Power Producer	Fuel	Dep. Capacity (MW)	Energy KwB	FCR Rs.	VO&M Rs.	Total Energy Cost (Rs.)
1	Hydro						
	L WAPDA	Hydel	6,902.00	485,761,822	-	52,834,644	52,834,644
	E Jagan	Hydel	30.00	(1,397,969)	-	(2,793,124)	-2,793,124
	R. Panura	Hydel	17.90	1,141,566	-	325,345	325,345
	iv. Masakand-III BHYDO	Hydel	81.46	18,127,968	-	4,531,760	4,531,760
v. Larabi	Hydel	84.00	8,212,006	-	2,544,878	2,544,878	
	Hydel Total:		7,115.36	511,784,422	-	57,442,892	57,442,892
2	Ex-WAPDA GENCOs						
	L GENCO-I						
	Jamshoro Block 1	RFO	205.00	59,393,006	691,202,796	5,416,528	887,613,317
	Unit-2	RFO		99,187,066	1,829,298,236	5,249,798	1,828,548,636
	Unit-3	RFO	470.00	38,895,608	411,832,153	3,394,334	415,326,487
	Unit-4	RFO		81,191,774	664,173,988	5,651,914	969,825,694
	Unit-4	Gas		3,754,726	31,086,805	347,312	31,436,317
	Kotri 3-7	Gas	166.50	(139,786)	(1,829,254)	(12,638)	-1,933,184
	Jamshoro Total		796.56	259,902,220	2,817,574,911	24,040,955	2,841,715,598
	I. GENCO-II						
	Central Block 1	RFO					9
	Goddu CC 11-13	Gas	390	25,364,463	162,326,414	1,747,614	184,874,626
	Central Block 2	Gas		255,134,276	1,256,816,018	18,267,762	1,275,093,770
	Goddu CC 6-10	Gas	530	36,736,429	219,542,731	2,117,871	228,686,402
	Goddu 747 (CC)	Gas	726.79	457,930,152	1,612,683,203	138,599,639	1,751,262,842
	Central Total		2,120.79	793,541,200	3,259,348,386	180,732,875	3,411,081,041
	II. GENCO-III						
	Northern Block 1						
	Unit 1	RFO		85,258,467	926,476,776	14,332,285	940,812,060
	Unit 2	RFO	558.00	88,338,257	977,451,298	14,846,961	992,398,957
	Unit 3	RFO		85,917,407	928,586,182	14,442,716	936,826,888
	Unit 4	RFO	270.00	185,069,169	1,127,975,177	17,862,127	1,145,837,365
	Unit 5	RFO		69,992,696	667,301,929	6,933,483	677,235,312
	Unit 6	RFO	360.00	39,066,977	452,355,746	6,567,168	458,922,904
	Nandipur	RFO	411.35	174,147,000	1,444,989,145	89,344,723	1,533,253,918
	HSD						
Northern Total:		1,979.35	626,881,975	6,517,059,159	166,132,203	5,683,191,354	
IV. GENCO-IV							
	Coal	31.20	8,621,006	39,782,776	1,787,133	40,579,909	
Total:		31.20	8,621,006	39,782,776	1,787,133	40,579,909	
DoE Total:		5,354.84	1,665,956,395	12,823,875,283	352,892,867	12,978,868,179	
3	IPPs						
	1 Kof Addu Block 1	RFO	328	245,799,500	1,897,766,123	113,728,935	2,811,485,058
		HSD		3,249,900	36,305,153	670,684	37,175,837
	Kof Addu Block 2	RFO	782	432,396,990	3,650,601,966	281,609,123	3,932,211,889
		HSD		35,458,680	452,729,326	32,309,359	486,034,995
	KAPCC Total		1,336.00	718,917,000	6,937,392,568	420,514,111	8,455,906,679
	2 Hub Power	RFO	1,206.80	588,817,600	5,210,386,917	112,687,243	5,322,993,250
	3 Kohinoor Energy	RFO	124.00	73,691,000	663,391,763	44,330,935	787,722,688
	4 AES Lalpur	RFO	350.00	144,368,790	1,432,814,208	24,851,686	1,457,756,864
	5 Pak Gen Power Limited	RFO	348.80	148,395,906	1,455,999,917	25,875,736	1,482,575,963
	6 Southern Power	RFO	119.47	-	-	-	-
	7 Habibullah	Gas	129.15	27,560,841	90,243,889	14,144,378	104,365,178
	8 Faqir Kabirwala	Gas	161.20	98,319,906	709,554,071	74,343,485	783,897,566
	9 Rousch	RLNG	398.60	44,634,977	228,591,597	12,417,200	341,198,807
	10 Baba Power	RFO	125.55	58,076,524	635,756,934	10,912,393	845,768,327
	11 Japan Power	RFO	107.00	-	-	-	-
	12 Uch	Gas	551.25	392,256,006	1,046,136,577	82,572,416	1,138,793,293
	13 Alern	Gas	27.12	-	-	-	9
	14 Liberty	Gas	211.85	23,526,200	360,060,884	7,841,282	397,901,368
	15 Devils Energen	RLNG	10.60	-	-	-	8
16 Chashma Nuclear-I	Nucl.	300.00	212,326,000	267,184,560	-	267,184,560	
17 Chashma Nuclear-II	Nucl.	816.00	189,994,000	203,158,664	-	203,158,664	
18 Chashma Nuclear-III	Nucl.	340.00	178,288,260	-	-	0	
19 Chashma Nuclear-IV	Nucl.	325.00	-	-	-	8	
20 Tavanir Iran	import	96.00	34,588,736	867,593,224	-	367,583,224	
Sub-Total:		5,883.18	2,851,523,528	16,709,376,484	847,240,835	19,656,620,828	

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**CENTRAL POWER PURCHASING AGENCY (CPPA)**  
**Energy Procurement Report (Provisional)**  
**Jan/2017**

S.No.	Power Producer	Fuel	Dep. capacity (MW)	Energy KWh	FCC Rs.	VO&M Rs.	Total Energy Cost (Rs.)
1	Attock-Gen	RFO	186.16	89,438,842	798,184,722	93,748,242	891,924,864
2	Atlas Power	RFO	213.86	127,656,432	1,084,883,217	118,388,575	1,293,191,782
3	Nisbat Power	RFO	188.31	195,225,745	824,768,845	97,586,357	922,355,293
4	Foundation Power	Gas	171.48	130,287,498	826,278,066	48,368,722	874,639,790
5	Orient	Gas	212.70	-	-	-	0
		HSD		99,197,434	1,247,937,809	31,813,450	1,279,451,289
6	Nisbat Chunian	RFO	185.72	118,913,387	948,893,755	110,916,566	1,850,912,421
7	Saif Power	Gas	203.89	-	-	-	0
		HSD		73,534,339	1,022,451,203	34,139,357	1,856,590,568
8	Engro Energy	Gas	212.98	154,717,238	651,644,947	52,788,522	704,434,469
		HSD		-	-	-	0
9	Sapphire Power	Gas	203.17	-	-	-	0
		HSD		85,833,695	1,174,776,458	44,916,769	1,219,693,227
10	Haboo Narowal	RFO	213.82	130,054,664	1,085,902,032	115,869,384	1,290,861,386
11	Liberty Power	RFO	198.14	110,850,367	894,325,785	114,833,630	899,158,415
12	Halmara	Gas	196.24	-	-	-	0
		HSD		74,781,400	1,031,945,202	39,761,278	1,071,706,472
13	Uch-I	Gas	380.75	298,288,111	1,039,583,796	45,735,677	1,085,329,473
14	JDW-I	Bagasse	26.38	14,489,190	86,188,118	6,613,777	92,811,895
15	JDW-II	Bagasse	26.38	14,105,879	84,384,136	6,474,594	90,868,730
16	RYK	Bagasse	24.81	13,282,390	79,337,731	6,087,386	85,425,127
17	Chenab Power	Bagasse	82.40	16,268,079	189,235,381	6,381,372	117,616,763
18	Fatime Energy	Bagasse	116.80	13,238,818	-	-	-
<b>Sub-Total:</b>			<b>3,913.15</b>	<b>1,582,144,803</b>	<b>12,872,553,217</b>	<b>975,409,729</b>	<b>13,847,952,946</b>
<b>IPP's Total:</b>			<b>8,586.34</b>	<b>4,533,968,121</b>	<b>31,381,932,717</b>	<b>1,822,650,564</b>	<b>33,204,583,275</b>
<b>Others</b>							
1	TPS-Quetta	Gas	25.00	(45,008)	(367,008)	(3,181)	-390,101
2	Zorlu	Wind	56.40	7,579,770	-	1,894,009	1,994,009
3	FFCEL	Wind	48.50	7,883,380	-	44,341	44,341
4	TGF	Wind	49.50	8,438,100	-	49,070	49,070
5	Foundation	Wind	49.50	15,395,188	-	10,786,250	10,786,258
6	Sapphire Wind Power	Wind	48.50	18,578,420	-	61,737	61,737
7	Yousaf Energy Ltd.	Wind	48.50	10,287,590	-	18,045,371	16,045,371
8	Metro Wind Power	Wind	49.50	11,184,200	-	4,231,100	4,231,100
9	Gul Ahmad Wind Power	Wind	48.50	6,913,980	-	7,090,386	7,880,386
10	Maste Wind Power	Wind	49.50	11,879,018	-	8,998,906	9,998,906
11	Tenaga General	Wind	49.50	7,728,238	-	-	-
12	Tapal Wind	Wind	48.50	7,405,770	-	11,901,840	11,981,840
13	Daide-Azam Solar Park	Solar	100.00	6,590,950	-	23,721,948	23,721,948
14	Appollo Solar Park	Solar	100.00	9,874,280	-	24,872,404	24,872,404
15	Best Green Energy	Solar	100.00	10,204,260	-	25,241,233	25,241,233
16	Great Energy	Solar	100.00	10,116,860	-	25,025,866	25,025,866
17	SPPs	Mixed	256.90	32,464,082	211,550,351	-	211,550,351
<b>Others Total</b>			<b>1,233.30</b>	<b>178,917,912</b>	<b>211,162,351</b>	<b>162,853,559</b>	<b>374,028,910</b>
<b>G-Total:</b>			<b>23,208.84</b>	<b>6,913,828,860</b>	<b>44,215,971,284</b>	<b>2,395,649,782</b>	<b>46,612,821,047</b>

**Summary**

1	Hydel			611,784,422	-	57,442,892	67,442,592
2	Coal			8,621,880	38,782,776	1,787,133	48,579,909
3	HSD			382,076,368	4,966,145,151	183,506,889	5,149,852,050
4	F.O.			3,295,955,111	28,771,250,588	1,462,211,821	31,223,462,287
5	Gas			1,822,196,734	7,703,526,760	497,850,439	6,201,387,189
6	RLNG			44,834,877	328,891,807	12,417,200	341,188,807
7	Nuclear			680,849,250	470,265,434	-	470,265,434
8	Import from Iran			34,580,735	367,583,224	-	367,583,224
9	Wind Power			106,813,370	-	64,206,018	64,286,010
10	Solar			39,885,450	-	98,860,648	88,860,649
11	Bagasse			73,276,260	368,155,376	27,557,138	366,712,515
12	Mixed			32,464,082	211,550,351	-	211,550,351
<b>Total For The month</b>				<b>8,813,624,660</b>	<b>44,216,971,284</b>	<b>2,395,649,782</b>	<b>46,612,821,047</b>
<b>Prev. Adjustment</b>							
<b>Grand Total:</b>				<b>6,913,828,860</b>	<b>44,216,971,284</b>	<b>2,395,649,782</b>	<b>46,612,821,047</b>

**Energy Sale Price**

<b>Energy Cost (Rs.)</b>	<b>54,882,467,187</b>	<b>2,378,278,588</b>	<b>57,281,737,676</b>
<b>Cost not chargeable to DISCOs (Rs.)</b>	<b>199,846,883</b>		<b>199,846,883</b>
<b>EPR (Chargeable) (Rs.)</b>	<b>54,882,270,444</b>	<b>2,378,278,588</b>	<b>57,062,091,013</b>
<b>Energy Sold (KWh)</b>	<b>6,631,857,023</b>	<b>6,631,857,023</b>	<b>6,631,857,023</b>
<b>Loss</b>	<b>2,254,776</b>	<b>2,378,278,588</b>	<b>2,378,278,588</b>

**Avg. Rate Calculation**

Energy Sold to DISCOs (KWh)	6,631,857,023		
Energy Sold to IPPs	12,769,446	199,846,883	199,846,883
Energy Loss as admissible @ 3%	287,408,808		
Energy beyond Admissible limit of 3%	81,601,585		
<b>Avg. Rate chargeable (Rs./KWh)</b>	<b>6,631,857,023</b>	<b>54,662,928,444</b>	<b>2,379,278,569</b>
<b>Loss</b>			<b>57,062,091,013</b>
Energy Purchased (KWh)	8,913,626,800		
Energy Purchased (Gross)	8,613,826,880		
Energy Sold (KWh) - Net	6,544,818,469		
Difference (KWh)	2,069,008,311		

**Supplemental EPP charges under PPA's**

**Jan/17**

<b>S.No.</b>	<b>Generators</b>	<b>Description</b>	<b>Amount (Million Rs.)</b>
1	Hydel		-
2	GENCOS		-
3	IPPs	Start-Up	20.71
		PLAC	235.87
		Fuel Differential	638.52
		Sub-Total:-	895.10
		Total (1 + 2 + 3)	895.10

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Sl. No.	IPPs	Block	Fuel	Dep Capacity (MW)	Energy (KWH)	Energy Payment Price (EPP)											
						Curr. Month EPP (Rs.)			Prev. EPP Adj. (Rs.)	Prev. EPP (Ver - Claim) (Rs.)	Start-Up	PLAC	Fuel Differential	Suppl. Total (Rs.)	Total EPP (Rs.)		
						FCC	VO&M	Total									
1	KAPCO	B-I	RFO	1,345.08	245,798,600	1,897,756,123	113,728,935	2,011,485,958	402,560	-	-	3,289	149,241,222	149,244,502	2,191,132,120		
			Gas		-	-	-	9	-	-	-	-	-	-	-		
			HSD		3,248,900	36,305,153	870,684	37,175,837	8,321	-	43	253,169,009	253,168,052	290,370,218			
		B-II	RFO		432,395,900	3,850,801,966	281,009,123	3,932,211,089	708,197	-	-	5,778	282,546,418	282,552,188	4,195,471,464		
			Gas		-	-	-	-	9	-	-	-	-	-	-		
			HSD		-	-	-	-	0	-	-	-	-	-	-		
B-III	Gas	-	-	-	-	0	-	-	-	-	-	-					
	HSD	35,460,800	452,726,328	32,305,389	485,034,865	56,111	-	-	473	21,543,412	21,543,665	506,636,691					
KAPCO Total:				1,345.00	718,917,900	8,037,392,568	428,514,111	8,465,906,879	1,174,179	-	9,567	886,526,060	886,529,827	7,153,618,485			
2	HUBCD		RFO	1,200.00	606,817,668	5,218,368,917	112,807,243	5,322,993,280	-	-	29,707,474	234,045,927	-	5,577,748,861			
3	KEL		RFO	124.00	73,891,000	963,391,753	44,330,935	707,722,688	-	-	-	-	-	707,722,688			
4	AES LALPIR		RFO	347.30	144,368,700	1,432,814,208	24,881,656	1,457,785,864	-	-	-	-	-	1,457,785,864			
5	AES PAKGEN		RFO	348.68	148,395,900	1,456,998,817	25,575,738	1,482,575,655	-	-	-	-	-	1,482,575,655			
6	SEPCOL		RFO	118.17	8	-	-	-	-	-	-	-	-	-			
7	HCPC		Gas	129.15	27,886,641	80,243,900	14,144,378	104,388,176	(45,850,967)	-	-	-	-	58,537,181			
8	FKPCL		Gas	151.00	1,135,930	7,534,071	7,333,483	7,533,933	(3,333,333)	-	-	-	-	787,850,391			
9	RDUSCH		Gas	395.80	44,634,077	326,691,867	12,417,200	341,188,807	(402,745)	-	-	(48,663,934)	(48,663,934)	292,702,228			
10	SABA		RFO	125.55	59,875,524	535,755,934	10,012,303	545,749,327	(170,130)	-	-	-	-	545,598,197			
11	JAPAN		RFO	107.00	0	-	-	-	-	-	-	-	-	-			
12	UCH		Gas	551.25	392,256,009	1,046,130,877	92,572,416	1,138,703,283	-	-	-	-	-	1,138,703,283			
13	ALTERN		Gas	26.40	8	-	-	-	-	-	-	-	-	-			
14	LIBERTY		Gas	211.85	23,526,200	368,080,084	7,841,282	367,661,366	(208,578)	-	-	-	-	367,661,366			
15	Davis Energy		Gas	10.59	0	-	-	-	(4,851,469)	-	-	-	-	(4,851,469)			
16	CHASNUPP		Nucl.	308.98	212,325,000	297,164,850	-	287,104,850	-	-	-	-	-	287,104,850			
17	CHASNUPP-II		Nucl.	315.88	186,994,000	203,180,504	-	283,160,584	-	-	-	-	-	203,160,584			
18	IRAN		RFO	86.00	34,580,736	367,583,224	-	367,593,224	26,663	-	-	-	-	367,913,687			
Sub Total					5,893.77	2,773,593,270	18,786,378,494	947,240,935	19,850,020,329	(45,537,334)	-	20,707,474	234,855,494	639,514,226	893,278,184	26,404,382,199	
1	Attock Gen		RFO	156.18	99,438,842	786,184,722	83,740,242	981,924,864	-	-	8	-	-	891,924,864			
2	Atlas Power		RFO	213.86	127,656,432	1,084,603,217	118,388,575	1,203,191,792	-	-	-	-	-	1,203,191,792			
3	Nisat Power		RFO	195.31	105,225,746	924,780,849	97,580,357	922,355,203	-	-	(329,754)	-	-	922,828,448			
4	Foundation Power		Gas	177.00	130,297,499	526,278,068	40,389,722	576,639,790	-	-	-	-	-	575,839,790			
5	Orient		Gas	212.74	8	-	-	-	-	-	-	-	-	-			
			HSD		89,187,434	1,247,937,669	31,513,456	1,279,451,259	-	-	37,153,134	-	-	1,316,604,393			
6	Nisat Chunian		RFO	195.72	118,813,387	940,893,755	118,818,868	1,850,912,421	-	-	-	-	-	1,950,101,678			
			Gas		0	-	-	-	-	8,198,158	-	-	8,198,158				
7	Saf Power		HSD	204.12	73,534,339	1,022,451,283	34,139,357	1,058,590,500	-	-	20,618,907	-	-	1,078,009,367			
			Gas		217.30	154,717,238	951,844,847	52,789,522	784,434,469	-	-	2,273,736	1,816,743	1,819,743	708,524,851		
8	Engro Energy		HSD	212.11	8	-	-	-	-	-	1	-	-	1			
			Gas		89,187,434	1,247,937,669	31,513,456	1,279,451,259	-	-	37,153,134	-	-	1,316,604,393			
9	Saphire Power Ltd		HSD	213.82	95,933,695	1,174,778,458	44,818,788	1,219,993,227	-	-	173,818,249	-	-	1,229,707,828			
10	HUBCD-Narawal		RFO	213.82	136,054,664	1,065,682,632	118,859,354	1,209,861,388	-	-	(66,097,321)	-	-	1,110,794,065			
11	Liberty Power		RFO	196.14	118,950,387	884,325,785	114,833,630	899,159,415	-	-	(682,879)	-	-	998,556,537			
12	Hatmore		Gas	206.81	8	-	-	-	-	-	-	-	-	-			
			HSD		74,781,409	1,031,945,202	36,781,276	1,071,706,472	-	-	-	-	1,071,706,472				
13	Uch-II		Gas	375.20	208,268,111	1,039,503,790	45,735,877	1,085,329,473	-	-	18,864,229	-	-	1,193,423,781			
14	JDW-I		Bagasse	26.60	14,409,109	95,198,110	8,813,777	82,811,995	-	-	(8)	-	-	82,811,995			
15	JDW-III		Bagasse	26.60	14,105,970	84,384,136	8,474,584	86,858,730	-	-	0	-	-	86,858,730			
16	RYK		Bagasse	30.00	13,262,300	79,337,731	4,097,396	85,425,127	-	-	(8)	-	-	85,425,127			
17	RYK		Bagasse	30.00	8	-	-	-	-	-	8	-	-	-			
18	Chinkot Power		Bagasse	62.40	18,280,878	106,235,391	9,381,372	117,818,793	-	-	1	-	-	117,919,784			
Sub Total					2,803	1,568,865,893	12,872,553,217	975,409,729	13,847,962,948	-	-	178,584,428	-	1,818,743	13,826,344,189		
G-Total					9,696.67	4,342,499,971	31,381,932,711	1,822,860,504	33,284,583,275	(45,537,334)	-	178,584,428	28,787,474	235,872,237	638,610,228	995,895,937	34,232,768,296

*SM*

# CERTIFICATE

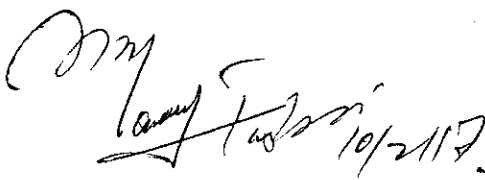
## FOR FUEL ADJUSTMENT IN THE CONSUMER-END TARIFF

### REGARDING 1994 POWER POLICY (HUBCO & KAPCO INCLUSIVE)

FOR THE MONTH OF January,2017

This is to certify that :-

- i) All purchases have been made from IPP's Under 1994 Policy, including HUBCO , KAPCO & Chasnupp and Excluding Tavanir, having valid generation License issued by NEPRA.
  - ii) Invoices of all Electricity Purchaser have been made strictly in accordance with the rates, Terms & conditions as stipulated in the respective Power Purchase Agreement.
  - iii) All payments to IPP's are being made after observing all formalities provided in the respective Power Purchase Agreement.
  - iv) All Sales / Purchases have been made in accordance with the Power Purchase Agreement.
2. The above statement is true and based on facts and verifiable documentary evidence. In case of any deviation / Variation observed if not rectified at later stage, WPP0 will be responsible for the consequences arising out of any misstatement under NEPRA Act, Rules & XRegulations made there under a relevant Law of the country, whichever is applicable.

  
Manager (IT) CPPA-G

# CERTIFICATE

## FOR FUEL ADJUSTMENT IN THE CONSUMER-END TARIFF

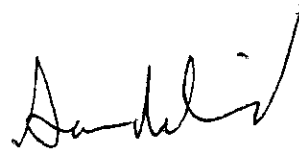
### REGARDING 2002 POWER POLICY FOR THE MONTH OF

January ,2017

This is to certify that :-

- 1) All purchases have been made from Generation Companies having valid generation License issued by NEPRA except TPS Quetta..
- 2) Invoices of all Electricity Purchaser have been made strictly in accordance with the rates, Terms & conditions as determined / approved / specified by NEPRA and notified in the Official Gazette, However Payment regarding periodical adjustments are made as per decision of NEPRA.

The above statement is true and based on facts and verifiable documentary evidence. In case of any deviation / Variation observed if not rectified at later stage, CPPA will be responsible for the consequences arising out of any misstatement under NEPRA Act, Rules & Regulations made there under a relevant Law of the country, whichever is applicable.




**Aamer Rashid**

**Add: Manager (IT) CPPA-G**

## **CERTIFICATE**

**Subject: MONTHLY FUEL CHARGES ADJUSTMENT OF DISCOS FOR THE MONTH OF JANUARY - 2017**

- I. It is certified that Merit order was followed as defined under section 2 (I) (x) of the NEPRA Licensing (Generation) Rules 2000, while Operating Power Plants in its fleet during month of January - 2017
  
- II. Claimed Partial Loading Adjustment charges (PLAC) was not due to fuel constraint but was strictly in accordance with the provision of their respective Power Purchase Agreement and the plant was operated on partial load due to less demand in the system and transmission / distribution network constraints.

  
10-02-2017  
Chief Engineer (Network Operation)  
NPCC, NTDCL, Islamabad