Central Power Purchasing	Agency	Guarantee Limited
	A C	

Company of Government of Pakistan



No. CEO/CPPA-G/3c

12th October, 2017

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

Subject: - ENERGY PURCHASE DATA FOR THE MONTH OF SEPTEMBER-2017

Monthly Energy Purchase Data for September-2017 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.

CENTRAL POWER PURCHASING AGENCY (CPPA) Energy Procurement Report (Provi tonal) so /2017

S.No.		Power Producer	Fuel	Dep. Capacity (MW)	Energy KWh	FCC Rs.	VO&M Rs.	Total Energy Cost (Rs.)
1	kird∎I	v				-		
	I.	WAPDA	Hyde(8,902.00	4,033,226,327	-	364,200,337	364,200,3
	I.	Ja9ran	Hyde	30.00	8,867,230	-	17,716,726	17,716,7
	R.	POLK* rawdainadti SHYDO	Hyde	17.90 81.46	5,338,800		1,521,558	1,521,5
	V. V.	Laraib	Hyde Hyde(84.00	37,988,000 57,224,000	-	9,496,500 22,162,855	9,496,5
		Hyde Total:	nyue(4,142,642,357	-	416,097,978	415,097,9
	1	-		7,115.36	4,142,042,337		410,037,370	415,037,5
	Ea-W	APDA GENCOS			-			
		GENCO4 Jamshoro Block 1	RFO	205.00	58,713,500	- 622,863,640	5,430,999	628,294,6
		088-2	RFO	203.00	36,136,448	432,685,918	3,342,621	436,028,5
		000-1	Gm	-	11,998,052	73,136,526	1,109,820	74,246,3
		UnttS	RFO	-	30,830,340	357,139,418	2,851,806	369.991.2
		Onito	Gas	470.00	15,107,660	89,642,811	1,397,459.	91,040,2
	i	Unit-4	RFO		57,583,208	655,708,154	5,326,447	661,034,0
		unit4	Gm	-	2,460,792	14,287,851	227,623	14,515,4
		Kotrl 3-7	Gm.	106.50	-	-	-	
							C40 E40	40 574 9
		Jamb.0 Block 4	Gus		7,011,000	39,926,413	648,518	40,574,9
		Jarnshoro Total		781.50	219,841,000	2,285,390,731	20,335,293	2,305,726,0
	r.	GENC0-11						
		Guddu CC 11-13	Gas	390	74,318,167	475,613,973	5,120,522	480,734,4
		Central Block 2	Gas		333,357,579	1,580,214,932	22,968,337	1,603,183,2
		Guddu CC 540	G.	530	4,394,854	31,249,170	302,805	31,551,9
2		Outdo 747 (CC)	Gas	720.79	362,371,000	1,315,780,975	108,638,826	1,424,419,8
		Canby! Total GENC0-81		1,840.79	774,441,600	3,402,859,050	137,030,490	3,539,889,5
		Northern Block 1						
		Unit 1	RFO		76,588,644	872,855,994	12,963,452	886,819,4
		Unit 2	RFO	558.00	65,375,938	767,158,004	11,211,973	778,369,9
		Unit 3	RFO		78,099,151	882,370,949	13,394,004	895,764,9
		Block-2 Unit 4	RFO	272.20	40,812,742	467,740,689	6,999,385	474,740,0
		8l00k4 Units	RFO		40,292,624	486,634,014	6,910,185	493,544,1
		Block4 Unit 6	RFO	355.32	49,456,164	609,728,961	8,481,732	618,210,6
		Nandlpur	,•. RLNG"	•, 411.35	96,598,000	613,478,145	35,721,940	849,200,0
		Northam Tool:		1,883.87	446,223,283	4,699,968,758	95,682,673	4,795,849,4
	lv	GENCO4V				-	-	-
			Coal	31.20	-	-	-	
		Total:		31.20	•	•	•	-
		CENG°, Total,		4,782.38	1,440,505,883	10,388,216,537	253,048,456	10,641,264,9
3	IPPs			4,/02.30	1,440,505,665	10,300,210,337	233,040,430	10,041,204,2
3	1	Sot Addu Block 1	RFO	325	160,410,200	1,309,411,022	75,060,529	1,384,471,5
	<u> </u>		RLNG		9,747,800	69,638,398	2,629,557	72,267,9
			1181)		1,431,700	17,983,277	388,362	18,371,6
		Kot Addu Block 2	RFO	762	178,823,650	1,604,606,545	117,785,778	1,722,392,3
	-	NOT AUGU DIOCK 2	WAG	702		344,479,844	13,871,556	358,351,4
		Kat A Like Direct A		240	43,961,550			120,715,1
		Kot Addu Block 3	RLNG	249	13,855,100	112,288,337 130,137,592	8,426,833 8,406,444	138,544,0
	L		HOD		9,128,000			
KA	PCO r			1,336.00	417,358,000	3,588,545,015	228,569,059	9,815,114,0
		Hub Power	RFO	1,200.00	488,454,800	4,559,924,643	86,242,474	4,646,167,0
		Kohlnoor Energy	RFO	124.00	60,658,000	645,717,260	36,894,942	582,612,2
		AES Leer	RFO	350.00 348.80	112,268,100 111,879,600	1,104,207,509	19,560,471	1,123,767,9
	5	Pak Gen Power Umlied	RFO					4 442 626 3
	7	Hahlbutlah	6.00			1,094,133,597	19,492,783 35 409 915	
	7	Habibutlah Faun Kabhwata	Gas	129.15	77,364,899	252,132,205	35,409,915	287,542,1
	8	Faup Kabhwata	Gas	129.15 151.20	77,364,899 88,550,830	252,132,205 677,878,491	35,409,915 67,698,703	287,542,1 745,577,1
	8 9	Faup Kabhwata Rousch	Gas RLNO	129.15 151.20 395.00	77,364,899 88,550,830 201,036,918	252,132,205 677,878,491 1,514,482,339	35,409,915 67,698,703 57,262,572	287,542,1 745,577,1 1,571,744,9
	8 9 10	Faup Kabhwata Rousch Saba Power	Gas RLNO RFO	129.15 151.20 395.00 125.85	77,364,899 88,550,830	252,132,205 677,878,491 1,514,482,339 594,261,913	35,409,915 67,698,703	287,542,1 745,577,1 1,571,744,9 604,846,8
	8 9 10 12	Faup Kabhwata Rousch Saba Power Lich	Gas RLNO	129.15 151.20 395.00 125.85 551.25	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000	252,132,205 677,878,491 1,514,482,339	35,409,915 67,698,703 57,262,572 10,584,926	287,542,1 745,577,1 1,571,744,9 604,846,8 1,098,507,6
	8 9 10	Faup Kabhwata Rousch Saba Power Lich Ahem	Gas RLNO RFO Gas	129.15 151.20 395.00 125.85	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776	35,409,915 67,698,703 57,262,572 10,584,926 90,725,862	287,542,1 745,577,1 1,571,744,9 604,846,8 1,098,507,6 109,005,4
	8 9 10 12 13 14	Faup Kabhwata Rousch Saba Power Lich	Gas RLNO RFO Gas Can	129.15 151.20 395.00 125.85 551.25 27.12	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776 94,799,102	35,409,915 67,698,703 57,262,572 10,584,926 90,725,862 14,206,328	287,542,1 745,577,1 1,571,744,5 604,846,6 1,098,507,6 109,005,4 804,230,2
	8 9 10 12 13 14	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty	Gas RLNO RFO Gas Can Gas	129.15 151.20 395.00 125.85 551.25 27.12 211.85	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776 94,799,102 861,229,769	35,409,915 67,698,703 57,262,572 10,584,926 90,725,862 14,206,328 43,000,452	287,542,1 745,577,1 1,571,744,§ 604,846,§ 1,098,507,(109,005,4 804,230,2 11,516,§
	8 9 10 12 13 14 15	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen	Gas RLNO RFO Gas Can Gas RLNO	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 1,286,190	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979	35,409,915 67,698,703 57,262,572 10,584,926 90,725,862 14,206,328 43,000,452	287,542,1 745,577,1 1,571,744,5 604,846,8 1,098,507,6 109,005,4 804,230,2 11,516,5 198,665,3
	8 9 10 12 13 14 15 18	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma NucImr-11	Gas RLNO RFO Gas Can Gas RLNO NucL	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 1,286,190 191,873,000	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 198,665,304	35,409,915 67,698,703 57,262,572 10,584,926 90,725,862 14,206,328 43,000,452 671,979 -	287,542,1 745,577,1 1,571,744,5 604,846,1 1,098,507,1 109,005, 804,230,2 11,516,5 198,665,2 204,625,5
	8 9 10 12 13 14 15 18 17	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nucimr-11 Chashma Nuclear41	Gas RLNO Gas Can Gas RLNO NucL NucL	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 315.00	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 1,228,190 191,873,000 218,898,000	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 198,665,304 204,625,850	35,409,915 67,698,703 57,262,572 10,584,926 90,725,862 14,206,328 43,000,452 671,979 - -	287,542,1 745,577,1 1,571,744,5 604,846,2 1,098,507,6 109,005,4 804,230,2 11,516,5 198,665,3 204,625,5 208,324,8
	8 9 10 12 13 14 15 18 17 18	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclear41 Chashma Sueriar-111	Gas RLNO Gas Can Gas RLNO NucL NucL NucL	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 315.00 340.00	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 1,286,190 191,873,000 218,898,000 222,855,000	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 198,665,304 204,625,850 208,324,854	35,409,915 67,698,703 57,262,572 10,584,926 90,725,862 14,206,328 43,000,452 671,979 - -	287,542,1 745,577, 1,571,744,5 604,846,4 1,098,507,4 109,005,4 804,230,1 11,516,5 198,665,5 204,625,1 208,324,4 136,259,1
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclear41 Chashma Soeriar-111 Chashma Soeriar-111	Gas RLNO Gas Can Gas RLNO NucL NucL NucL Nucl.	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 315.00 340.00	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 1,286,190 191,873,000 218,898,000 222,855,000 143,924,000	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 198,665,304 204,625,850 208,324,854 135,259,775	35,409,915 67,698,703 57,262,572 10,584,926 90,722,862 14,206,328 43,000,452 671,979 - - - -	287,542,1 745,577,1 1,571,744,5 604,846,5 1,098,507,6 109,005,4 804,230,2 11,516,5 108,665,3 204,625,5 208,324,6 136,259,7 523,080,2
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclear41 Chashma Soeriar-111 Chashma Soeriar-111	Gas RLNO Gas Can Gas RLNO NucL NucL NucL Nucl.	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 315.00 340.00 340.00 96.00	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 1,286,190 191,873,000 218,898,000 222,855,000 143,924,000 49,207,926	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 198,665,304 204,625,850 208,324,854 135,259,775 523,080,243	35,409,915 67,698,703 57,262,572 10,584,926 90,722,862 43,000,452 671,979 - - - - -	287,542,1 745,577,1 1,571,744,5 604,846,5 1,098,507,6 109,005,4 804,230,2 11,516,5 198,665,3 204,625,5 208,324,6 136,259,7 523,080,2 17,584,213,9
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19 20	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclear41 Chashma 50eriar-111 Chashma Nuclear-IV Tamar Iran	Gas RLNO RFO Gas Can Gas RLNO NucL NucL NucL NucL Nucl. Import	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 315.00 340.00 340.00 96.00 6,568.19	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 1,286,190 191,873,000 218,898,000 222,855,000 143,3224,000 49,207,926 2,987,905,826	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 198,665,304 204,625,850 208,324,854 135,259,775 523,080,243 17,175,893,514	35,409,915 67,698,703 57,262,572 10,584,926 90,722,862 14,206,328 43,000,452 671,979 - - - - - 708,320,466 91,252,541 105,526,873	287,542,1 745,577,1 4,571,7445,6 604,846,8 604,846,8 109,005,4 804,230,2 11,516,5 204,625,8 204,625,8 204,625,8 204,625,8 204,625,1 208,324,8 138,665,3 204,625,1 208,324,8 138,665,3 204,625,1 208,324,8 138,665,3 204,625,1 208,324,8 138,665,3 204,625,1 208,324,8 138,665,3 204,625,1 208,324,8 138,665,3 204,625,1 208,324,8 138,665,3 204,625,1 208,324,8 208,
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19 20 1	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclmr-11 Chashma Nuclear41 Chashma Seriar-111 Chashma Seriar-111 Chashma rran Attock-Gen Attas Power Nishat Power	Gas RLNO RFO Gas Can Gas RLNO NucL NucL NucL NucL NucL NucL REO	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 340.00 340.00 96.00 6,568.19 158.18 213.86 195.31	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 1,228,190 191,873,000 218,898,000 222,855,000 143,924,000 49,207,928 95,173,697 111,881,757 103,968,991	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 198,665,304 204,625,850 208,324,854 135,259,775 523,080,243 17,175,893,514 733,791,314 968,343,706 863,271,890	35,409,915 67,698,703 57,262,572 10,584,926 90,722,862 14,206,328 43,000,452 671,979 - - - - 708,320,466 91,252,541 105,522,6373 98,083,552	287,542,1 745,577,1 1,571,744,5 604,846,5 1,098,507,6 109,005,4 804,230,2 115,16,5 198,665,5 204,625,6 208,324,6 136,259,7 523,080,2 17,584,213,9 825,043,6 1,073,870,6 961,335,4
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19 20 1 20	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclear41 Chashna Nuclear41 Chashnra Nuclear41 Chashnra Nuclear41 Attock-Gen Atlas Power	Gas RLNO Gas Gas Gas RLNO NucL NucL NucL NucL NucL RFO RFO RFO Gas	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 315.00 340.00 340.00 96.00 6,568.19 158.18 213.86	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 1,226,190 191,873,000 218,898,000 222,855,000 143,924,000 49,207,926 2,987,905,826 95,173,697 111,881,757	252,132,205 677,878,491 1,614,482,339 594,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 10,865,304 204,625,850 208,324,854 135,259,775 523,080,243 17,175,893,514 733,791,314 968,343,706	35,409,915 67,698,703 57,262,572 10,564,926 90,725,862 14,206,328 43,000,452 671,979 - - - - 708,320,466 91,252,641 105,526,873 98,083,552 40,513,045	287,542,1 745,577,1 1,571,744,5 604,846,5 1,098,507,6 109,005,4 804,230,2 115,16,5 198,665,5 204,625,6 208,324,6 136,259,7 523,080,2 17,584,213,9 825,043,6 1,073,870,6 961,335,4
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19 20 20 1 2 3	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclmr-11 Chashma Nuclear41 Chashma Seriar-111 Chashma Seriar-111 Chashma rran Attock-Gen Attas Power Nishat Power	Gas RLNO RFO Gas Can Gas RLNO NucL NucL NucL NucL Import RFO RFO Gas RLNG	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 340.00 340.00 96.00 6,568.19 158.18 213.86 195.31	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 191,873,000 218,898,000 222,855,000 143,924,000 222,855,000 143,924,000 229,875,905,826 95,173,697 111,881,757 103,968,991 105,174,052	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 10,843,979 108,665,304 204,625,850 208,324,854 135,259,775 523,080,243 17,175,893,514 733,791,314 968,343,706 863,271,890	35,409,915 67,698,703 57,262,572 10,584,926 90,725,862 14,206,328 43,000,452 671,979 - - - - 708,320,466 91,252,541 105,526,873 98,083,552 40,513,045	287,542,1 745,577,1 4,571,7445, 604,846,8 604,846,8 109,005,4 804,230,2 11,516,5 204,625,5 204,6
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19 20 20 1 2 3 4 5	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclear41 Chashma Nuclear41 Chashma Nuclear41 Chashma ran Attock-Gen Atlas Power Foundation Paver Orient	Gas RLNO RFO Gas Can Gas RLNO Nucl. Nucl. Nucl. Nucl. Import RFO RFO RFO RFO RFO Gas RLNG HSD	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 340.00 340.00 340.00 96.00 6,568.19 158.18 213.86 195.31 171.48 212.70	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 1,226,190 191,873,000 218,898,000 222,855,000 143,924,000 49,207,926 2,987,906,826 95,173,697 111,881,757 103,966,991 105,174,052	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 10,865,304 204,625,850 208,324,854 135,259,775 523,080,243 17,175,893,514 733,791,314 968,343,706 863,271,890 416,797,635 - -	35,409,915 67,698,703 57,262,572 10,584,926 90,722,862 14,206,328 43,000,452 671,979 - - - - 708,320,466 91,252,541 105,526,873 99,083,552 40,513,045 - 7,939,166	287,542,1 745,577,1 4,571,744,5 604,846,5 109,005,4 804,230,2 11,516,5 204,625,6 208,324,6 138,665,3 204,625,6 208,324,6 136,259,7 523,080,4 17,584,213,9 825,043,6 1,073,870,5 961,335,4 457,310,6
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19 20 1 2 3 4	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclear41 Chashma Nuclear41 Chashma Nuclear41 Chashma ran Attock-Gen Attas Power Foundation Paver	Gas RLNO RFO Gas Can Gas RLNO NucL NucL NucL NucL NucL NucL RFO RFO RFO Gas Gas RLNO RFO RFO RFO RFO	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 340.00 340.00 340.00 340.00 36,568.19 158.18 213.86 195.31 171.48	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 191,873,000 218,898,000 222,855,000 143,924,000 222,855,000 143,924,000 229,875,905,826 95,173,697 111,881,757 103,968,991 105,174,052	252,132,205 677,878,491 1,514,482,339 5594,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 10,843,979 108,665,304 204,625,850 208,324,854 135,259,775 523,080,243 17,175,893,514 733,791,314 968,343,706 863,271,890	35,409,915 67,698,703 57,262,572 10,584,926 90,722,862 14,206,328 43,000,452 671,979 - - - - - - - - 708,320,466 91,252,541 105,526,873 98,083,552 40,513,045 - - 7,939,166 101,319,895	287,542,1 745,577,1 4,571,744,5 604,846,5 109,005,4 804,230,2 11,516,5 204,625,1 206,324,6 138,665,2 204,625,1 208,324,6 136,259,3 523,080,1 17,584,213,9 825,043,1 1,073,870,5 961,335,4 457,310,6
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19 20 20 1 2 3 4 5	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclear41 Chashma Nuclear41 Chashma Nuclear41 Chashma ran Attock-Gen Atlas Power Foundation Paver Orient	Gas RLNO RFO Gas Can Gas RLNO NucL NucL NucL NucL NucL NucL RFO RFO RFO Gas RLNG HSD RFO RFO RFO	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 340.00 340.00 340.00 96.00 6,568.19 158.18 213.86 195.31 171.48 212.70	77,364,899 88,550,830 201,036,918 60,728,204 127,622,100 1,228,190 191,873,000 218,898,000 222,855,000 143,924,000 49,207,926 95,173,697 111,881,757 103,968,991 105,174,052 22,114,660 107,684,021	252,132,205 677,878,491 1,514,482,339 554,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 10,843,979 10,843,979 10,865,304 204,625,850 208,324,864 135,259,775 523,080,243 17,175,893,514 733,791,314 968,343,706 863,271,890 416,797,635 - - 319,161,801 910,246,160	35,409,915 67,698,703 57,262,572 10,564,926 90,725,862 14,206,328 43,000,452 671,979 - - - - 708,320,466 91,252,641 105,526,873 98,083,552 40,513,045 - 7,939,166 101,319,895	287,542,1 745,577,1 1,571,744,5 604,846,5 1,098,507,1 109,005,4 804,230,2 115,165,1 198,665,2 204,625,1 208,324,1 136,259,1 523,080,2 17,584,213,9 825,043,1 1,073,870,9 961,335,4 457,310,6 327,100,5 1,011,566,0
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19 20 20 1 2 3 4 5 5 8 7	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclmr-11 Chashma Soeriar-111 Chashma Soeriar-111 Chashma Soeriar-111 Chashma Foeriar-111 Chashma Foeriar-111 Chashma Foeriar-111 Chashma Foeriar-111 Chashma Foeriar-111 Chashma Power Foundation Paver Orient Nishat Chunlan Sall Powur	Gas RLNO RFO Gas Can Gas RLNO NucL NucL NucL Nucl. Import RFO RFO RFO Gas RLNG HSD	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 315.00 340.00 340.00 96.00 6,568.19 158.18 213.86 195.31 171.48 212.70 - 195.72 203.89	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 194,873,000 228,855,000 143,924,000 222,855,000 143,924,000 229,87,905,826 95,173,697 111,881,757 103,968,991 05,174,052 22,114,660 107,684,021	252,132,205 677,878,491 1,514,482,339 559,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 10,865,304 204,625,850 208,324,854 135,259,775 523,080,243 17,175,893,514 733,791,314 968,343,706 863,271,890 416,797,635 - 319,161,801 910,246,160 - 115,042,208	35,409,915 67,698,703 57,262,572 10,584,926 90,725,862 14,206,328 43,000,452 671,979 - - - - - 708,320,466 91,252,541 106,526,873 98,083,552 40,513,045 - 7,939,166 101,319,895 - - 4,206,575	287,542,1 745,577,1 4,577,744,5 604,846,8 1,098,507,1 109,005,4 804,230,1 11,516,2 204,625,1 208,324,8 136,259,1 523,080,2 17,584,213,9 825,043,1 1,073,870,5 961,335,4 457,310,6 327,100,5 1,011,566,6
Sub-Total:	8 9 10 12 13 14 15 18 17 18 17 18 19 20 1 20 1 20 5 8 8	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclear41 Chashma Nuclear41 Chashma Nuclear41 Chashma Soeriar-111 Chashma ran Attock-Gen Attas Power Foundation Paver Orient Nishat Chunlan	Gas RLNO RFO Gas Can Gas RLNO Nucl. Nucl. Nucl. Nucl. Import RFO RFO RFO RFO RFO RFO RFO RENG HSD Gas	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 340.00 340.00 340.00 6,568.19 158.18 213.86 195.31 171.48 212.70 195.72	77,364,899 88,550,830 201,036,918 60,728,204 127,622,100 1,228,190 191,873,000 218,898,000 222,855,000 143,924,000 49,207,926 95,173,697 111,881,757 103,968,991 105,174,052 22,114,660 107,684,021	252,132,205 677,878,491 1,514,482,339 554,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 10,843,979 10,843,979 10,865,304 204,625,850 208,324,864 135,259,775 523,080,243 17,175,893,514 733,791,314 968,343,706 863,271,890 416,797,635 - - 319,161,801 910,246,160	35,409,915 67,698,703 57,262,572 10,564,926 90,725,862 14,206,328 43,000,452 671,979 - - - - 708,320,466 91,252,641 105,526,873 98,083,552 40,513,045 - 7,939,166 101,319,895	287,542,1 745,577,1 4,577,744,5 604,846,8 1,098,507,1 109,005,4 804,230,1 11,516,2 204,625,1 208,324,8 136,259,1 523,080,2 17,584,213,9 825,043,1 1,073,870,5 961,335,4 457,310,6 327,100,5 1,011,566,6
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19 20 20 1 2 3 4 5 5 8 7	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclmr-11 Chashma Soeriar-111 Chashma Soeriar-111 Chashma Soeriar-111 Chashma Foeriar-111 Chashma Foeriar-111 Chashma Foeriar-111 Chashma Foeriar-111 Chashma Foeriar-111 Chashma Power Foundation Paver Orient Nishat Chunlan Sall Powur	Gas RLNO RFO Gas Can Gas RLNO NucL NucL NucL NucL NucL NucL RFO RFO RFO RFO RFO RFO RFO RFO RFO RFO	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 315.00 340.00 340.00 96.00 6,568.19 158.18 213.86 195.31 171.48 212.70 - 195.72 203.89	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 194,873,000 228,855,000 143,924,000 222,855,000 143,924,000 229,87,905,826 95,173,697 111,881,757 103,968,991 05,174,052 22,114,660 107,684,021	252,132,205 677,878,491 1,514,482,339 559,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 10,865,304 204,625,850 208,324,854 135,259,775 523,080,243 17,175,893,514 733,791,314 968,343,706 863,271,890 416,797,635 - 319,161,801 910,246,160 - 115,042,208	35,409,915 67,698,703 57,262,572 10,584,926 90,725,862 14,206,328 43,000,452 671,979 - - - - - 708,320,466 91,252,541 106,526,873 98,083,552 40,513,045 - 7,939,166 101,319,895 - - 4,206,575	287,542,1 745,577,1 4,577,744,5 604,846,8 1,098,507,1 109,005,4 804,230,1 11,516,2 204,625,1 208,324,8 136,259,1 523,080,2 17,584,213,9 825,043,1 1,073,870,5 961,335,4 457,310,6 327,100,5 1,011,566,6
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19 20 1 2 3 4 5 8 7 8 9 9	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclear41 Chashma Soleriar-111 Chashma Soleriar-111 Chashma Soleriar-111 Chashma Soleriar-111 Chashma Soleriar-111 Chashma Soleriar-111 Attock-Gen Attas Power Nishat Power Foundation Paver Orient Nishat Chunlan Sall Pownr Engro Energy Saphire Power	Gas RLNO RFO Gas Can Gas RLNO NucL NucL NucL NucL NucL NucL NucL RFO RFO RFO RFO RFO RFO RFO RFO RFO RFO	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 340.00 340.00 340.00 340.00 96.00 6,568.19 155.18 213.86 195.31 171.48 212.70 - 195.72 203.89 - 212.98 203.17 -	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 1,286,190 191,873,000 218,898,000 222,855,000 49,207,926 29,87,905,826 95,173,697 111,881,757 103,966,991 105,174,052 22,114,660 107,684,021 7,823,275 128,550,961	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 198,665,304 204,625,850 208,324,854 135,259,775 523,080,243 17,175,893,514 733,791,314 968,343,706 863,271,890 416,797,635 - - 319,161,801 910,246,160 - 115,042,208 547,531,521 -	35,409,915 67,698,703 57,262,572 10,584,926 90,722,862 14,206,328 43,000,452 671,979 - - - - - - - - - - - - - - - - - -	287,542,1 745,577,1 1,571,744,5 604,846,5 109,005,4 804,230,2 11,516,5 198,665,2 208,324,5 136,259,7 523,080,2 17,584,213,9 825,043,8 1,073,870,5 961,335,4 457,310,6 327,100,5 1,011,566,6 119,248,7 592,138,7
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19 20 1 2 3 4 5 8 7 8 9 10	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclmr-11 Chashma Soeriar-111 Chashma Soeriar-111 Chashma Soeriar-111 Chashma Soeriar-111 Chashma Soeriar-111 Chashma Soeriar-111 Attock-Gen Attas Power Nishat Power Foundation Paver Orient Nishat Chunlan Sall Powrr Engro Energy Saphlre Power Hubca NaraWal	Gas RLNO RFO Can Gas RLNO NucL NucL NucL NucL NucL NucL RFO RFO RFO RFO RFO RFO RFO RFO RFO RFO	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 315.00 340.00 340.00 6,568.19 158.18 213.86 195.31 171.48 212.70 - 195.72 203.89 212.98 203.17 - 213.82	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 1,286,190 191,873,000 228,855,000 143,924,000 228,855,000 143,924,000 229,87,905,826 95,173,697 111,881,757 103,968,991 103,968,991 22,114,660 107,684,021 7,823,275 128,550,961	252,132,205 677,878,491 1,514,482,339 559,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 10,865,304 204,625,850 208,324,854 135,259,775 523,080,243 17,175,893,514 733,791,314 968,343,706 863,271,890 416,797,635 - - 319,161,801 910,246,160 - 115,042,208 547,531,521 - 907,434,812	35,409,915 67,698,703 57,262,572 10,584,926 90,725,862 14,206,328 43,000,452 671,979 - - - - - - - 708,320,466 91,252,541 106,526,873 98,083,555 40,513,045 - 7,939,166 101,319,895 - 4,206,575 44,607,183 - - 91,981,888	1,113,626,3 287,542,1 745,577,1 1,571,744,9 604,846,8 1,098,507,6 109,005,4 804,230,2 11,516,9 198,665,3 204,625,8 208,324,8 136,259,7 523,080,2 17,584,213,9 825,043,6 1,073,870,5 9461,335,4 457,310,6 327,100,9 1,011,566,0 119,248,7 592,138,7 999,416,7 944,213
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19 20 1 2 3 4 5 8 7 8 9 9	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclear41 Chashma Soleriar-111 Chashma Soleriar-111 Chashma Soleriar-111 Chashma Soleriar-111 Chashma Soleriar-111 Chashma Soleriar-111 Attock-Gen Attas Power Nishat Power Foundation Paver Orient Nishat Chunlan Sall Pownr Engro Energy Saphire Power	Gas RLNO RFO Gas Can Gas NucL NucL NucL NucL NucL NucL NucL NucL	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 340.00 340.00 340.00 340.00 96.00 6,568.19 155.18 213.86 195.31 171.48 212.70 - 195.72 203.89 - 212.98 203.17 -	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 1,286,190 191,873,000 218,898,000 222,855,000 49,207,926 29,87,905,826 95,173,697 111,881,757 103,966,991 105,174,052 22,114,660 107,684,021 7,823,275 128,550,961	252,132,205 677,878,491 1,514,482,339 594,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 198,665,304 204,625,850 208,324,854 135,259,775 523,080,243 17,175,893,514 733,791,314 968,343,706 863,271,890 416,797,635 - - 319,161,801 910,246,160 - 115,042,208 547,531,521 -	35,409,915 67,698,703 57,262,572 10,584,926 90,722,862 14,206,328 43,000,452 671,979 - - - - - - - - - - - - - - - - - -	287,542,1 745,577,1 1,571,744,9 604,846,8 1,098,607,6 109,005,4 804,230,2 11,516,9 198,665,3 208,324,8 136,259,7 523,080,2 17,584,213,97 825,043,6 1,073,870,5 961,335,4 457,310,6 327,100,9 1,011,566,0
Sub-Total:	8 9 10 12 13 14 15 18 17 18 19 20 1 2 3 4 5 8 7 8 9 10 11 11	Faup Kabhwata Rousch Saba Power Lich Ahem Liberty Davis Energen Chashma Nuclmr-11 Chashma Soeriar-111 Chashma Soeriar-111 Chashma Soeriar-111 Chashma Soeriar-111 Chashma Soeriar-111 Chashma Soeriar-111 Attock-Gen Attas Power Nishat Power Foundation Paver Orient Nishat Chunlan Sall Powrr Engro Energy Saphlre Power Hubca NaraWal	Gas RLNO RFO Can Gas RLNO NucL NucL NucL NucL NucL NucL RFO RFO RFO RFO RFO RFO RFO RFO RFO RFO	129.15 151.20 395.00 125.85 551.25 27.12 211.85 10.00 300.00 315.00 340.00 340.00 6,568.19 158.18 213.86 195.31 171.48 212.70 - 195.72 203.89 212.98 203.17 - 213.82	77,364,899 88,550,830 201,036,918 60,728,204 373,885,000 20,376,260 127,622,100 1,286,190 191,873,000 228,855,000 143,924,000 228,855,000 143,924,000 229,87,905,826 95,173,697 111,881,757 103,968,991 103,968,991 22,114,660 107,684,021 7,823,275 128,550,961	252,132,205 677,878,491 1,514,482,339 559,261,913 1,007,781,776 94,799,102 861,229,769 10,843,979 10,865,304 204,625,850 208,324,854 135,259,775 523,080,243 17,175,893,514 733,791,314 968,343,706 863,271,890 416,797,635 - - 319,161,801 910,246,160 - 115,042,208 547,531,521 - 907,434,812	35,409,915 67,698,703 57,262,572 10,584,926 90,725,862 14,206,328 43,000,452 671,979 - - - - - - - 708,320,466 91,252,541 106,526,873 98,083,555 40,513,045 - 7,939,166 101,319,895 - 4,206,575 44,607,183 - - 91,981,888	287,542,1 745,577,1 1,571,744,9 604,846,8 1,098,507,6 109,005,4 804,230,2 11,516,9 198,665,3 204,625,8 208,324,8 136,259,7 523,080,2 17,584,213,9 825,043,8 1,073,870,5 961,335,4 457,310,6 327,100,9 1,011,566,0 119,248,7 592,138,7

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

				s	e 2017			
				Dap.				Total
						FCC	VOEM	Energy Cost
S.No.		Power Producer	Fuel	Capacity [NW)	Energy KWh	Rs.	Rs.	(Rsi
l	14	JOW4	Bagasse	26,35	17,228,700	106,261,453	8,512701	114,774,154
ļ	15	AMA	Bagasse	26.35	17,055,110	105,190,802	8,426,930	113,617,732
1	18	RUH	Bagasse	24.01	6,432,100	52,006,663	4,166,301	56,172,964
ļ	17	Chiniol Power	Bagasse	62.40	38,981,840	241,796,557	17,892,665	259,688,222
ļ	40	Fatime Facure	Bagasse _	110.e0	17,056,090	90,013,515	-	90,013,515
1	18	Fatima Energy	Coal		2,147,170	7,360,069	-	7,360,069
l	19	Hamra Sugar Mills	Bagasse	15.00		-	-	
ļ	20	Layyah Sugar Mills	Bagasse	41.00	11,521,410	69,704,531	4,954,206	74,658,737
	21	CIATPL	RLNG	1,180.00	394,141,400	3,415,952,075	128,923,652	3,644,875,727
l	22	H00e5 Bahadur Shah	RING	1,230.00	184,052,300	1,517,965,059	59,761,782	1,577,726,841
l	23	Coal Fire Power Plant	Coal	1,320.00	549,030,020	2,356,052,525	-	2,356,052,525
l	24	Gull Power G.	RFO	62.00		-	-	
l	25	Reshman	RFO	97.00	2,905,750	28,727,116	2,692,177	31,419,294
ļ		Bala!	RLNG	1,322.00	381,687,900	3,057,320,079	123,819,555	3,181,139,634
Sub.Tolat	20	Dulu.	KENG	8,250.15	2,677,714,432	18,687,642,324	1,084064842	19,767, ⁷ 08,1 ⁶⁶
'PP,. To	ok-			6,250.15 14,848.34	5,845,620,258	35,863,535,838	1,788,388,308	37,651,922,146
				14,040.34	3,043,020,238	50,000,000,000	1,100,000,000	0.,00.,022,140
4	Othe							
	1	TPS.Otsetta	Gas	25.00	(27,000)	(232,200)	(1,860)	-234,060
	2	Zoriu	Wind	58.40	11,296,076		17,403,864	17,403,864
	3	FFCEL	Wind	49.50	7,820,310	-	17,504,200	17,504,200
	4	TGF	Wind	49.50	9,606,113	-	9,446,652	9,446,652
1	s	Foundation	Wind	49.50	16,155,170	-	16,845,779	16,845,779
1	8	Saphire Wind Power	Wind	49.50	8,840,370	-	14,179,953	14,179,953
	7	Towles Energy Ltd.,	vend	49.50	8,954,220	-	16,469,497	16,469,497
	Ш	Warp Wind Power	Wind	49.50	8,845,560	-	6,452,836	6,452,836
l	9	Got Mmad Wind Power	Wind	49.50	8,523,820	-	15,677,862	15,677,862
	10	Master Wind Power	Wind	49.50	9,581,580	-	17,623,400	17,623,400
l	11	Tenaga °enamel	Wind	49.50	7,552,500	-	13,891,313	13,891,313
	12	Taps! Wind	Wind	3050	7,589,400		13,959,183	13,959,183
		HDPPL YAnd		49.50	9,248,297		17,010,392	17,010,392
1			Wind					
	14	SEDL Wind	Wind	49.50	9,232,926	-	7,000,404	7,000,404
ļ	18	UEPL Wind	Wind	99	18,400,560		33,844,150	33,844,150
l	18	Cluid.Ararn Solar Park	Solar	51.50	15,139,840	-	36,596,021	36,596,021
l	17	Minolta Solar Park	Solar	100.00	15,525,230	-	38,403,209	38,403,209
	18	Best Green Energy	Solar	100.00	15,529,030	-	38,412,609	38,412,609
	19	Crest Energy	Solar	100.00	15,746,840	-	38,951,383	38,951,383
	20	SPPs	Mad	258.90	56,675,992	383,878,362	-	383,878,362
0en.	Tose			1,363.80	260,236,834	383,646,182	369,670,849	753,317,010
G.Total:				28,089.88	11,489,005,312	46,635,398,537	2,826,203,588	49,461,602,125
				-0,000.00	,	,,,		
mmary	_					-		
1		Hydel			4,142,642,357	-	415,097,976	415,097,976
2		Coal			551,177,190	2,363,412,594		2,363,412,594
3		1180			60,249,915	852,749,730	31,610,729	884,360,459
4		F.O.			2,328,484,765	22,221,433,473	1,037,213,924	23,258,647,398
5		51			1,882,787,918	8,222,508,575	497,566,022	8,720,112,597
6		RLNG			1,326,368,158	10,656,448,255	431,089,426	11,087,537,681
6		Nuclear			777,550,000	746,875,783		746,875,783
7		import Iron, Iran			49,207,925	523,080,243	-	523,080,243
a	-	Wind Power			141,646,902	-	217,309,487	217,309,487
a 9		Solar			61,940,940		152,363,222	152,363,222
9 10	-	Bagasse			110,275,250	- 664,973,522	43,952,802	708,926,324
		-					43,952,002	383,878,362
11		Mixed Total For The month			56,675,992	383,878,362 46,635,398,537	- 2,826,203,588	49,461,602,125
					11,489,005,312			
		Prey. Adjustment				24,970,779,178	563,857,216	25,534,636,394
		Grand Total:			11,489,005,312	71,606,177,715	3,390,060,803	74,996,238,519
				Energ	y Cost (Rs.)	71,606,177,715	3,390,060,803	74,996,238,519
				Cost no	ot chargabe to	450 450 0		150,159,073
					SCOS (ns.)	150,159,073		150,159,073
				EPP (Ch	narga We) (Rs.)	71,456,018,642	3,390,060,803	74,846,079,446
				Energy	y Sold (KWh)	11,233,502,238	11,233,502,238	11,233,602,238
					tei(Rs./KWh)	6360974	• 0.301781	• • 6.662756
					,	000074	0.001701	0.002.00

CERTIFICATE

FOR FUEL ADJUSTMENT IN THE CONSUMER-END TARIFF

REGARDING 2002 POWER POLICY FOR THE MONTH OF

SEPTEMBER, 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.

Vddl: Manager (IT) CPPA-G

CERTIFICATE

FOR FUEL ADJUSTMENT IN THE CONSUMER-END TARIFF

REGARDING 1994 POWER POLICY (HUBCO & KAPCO INCLUSIVE)

FOR THE MONTH OF SEPTEMBER, 2017

This is to certify that :-

- 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, WPPO 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.

County fe//

Manager (IT) CPPA-G

CERTIFICATE

Subject: MONTHLY FUEL CHARGES ADJUSTMENT OF DISCOS FOR THE MONTH OF SEPTEMBER — 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 September 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 plants were operated on partial load due to less demand in the system and transmission/distribution network constraints.

Chief Engineer (Network Operation) NPCC, NTDCL, Islamabad

E/Directorate/NTDCUCPPA 2017

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