

FINANCIAL PLAN OF WAPDA PROJECTS

FUNDS REQUIRED FOR 20000 MW HYDROPOWER GENERATION

YEAR	FUNDING (Rs in Millions)	GENERATION (MW)	PROJECT COMING ONLINE DURING THE YEAR (MW)
2008-09	15233	-	
2009-10	84461	-	
2010-11	91445	168	Khan Khwar (72), Jinnah (96)
2011-12	125889	525	Allai Khwar (121), Duber Khwar (130), Golen Gol (106)
2012-13	134099	608	Kurram Tangi (83)
2013-14	190042	608	Nil
2014-15	285551	636	Basho(28)
2015-16	279331	1877	Neelum-Jhelum(969), Keyal Khwar(122), Phandar (80), Lawi (70)
2016-17	300464	3717	Kohala(1100), Munda(740)
2017-18	286648	3717	Nil
2018-19	313184	3717	Nil
2019-20	196400	8217	Diamer Basha (4500)
2021-21	190400	13104	Dasu (4320), Lower Spatgah (567)
2021-22	90824	20725	Bunji (7000), Palas Valley (621)
2022-23	52800	20725	Nil
2023-24	52800	21325	Akhori (600)

YEARWISE FUNDS (RS MILLION) REQUIRED FOR 20000 MW HYDROPOWER GENERATION

#	Name of Project	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Project Cost
1	Allai Khwaar	2675	3465	1600	652														8392
2	Khan Khwar	1675	1790	464															3929
3	Duber Khwar	3032	4300	1296	499														9127
4	Jinnah	240	400	300															940
5	Diamer Basha	240	49920	47040	64080	76240	79120	88400	89360	65680	37280	32080	32400						661840
6	Golen Gol	2121	4453	3306	2574														12454
7	Neelum Jhelum	5250	9415	15932	18045	19674	22631	23718	15691										130356
8	Kurram Tangi		10201	21117	13671	8504													53493
9	Munda				7200	7200	14400	14400	14400	14400									72000
10	Kohala				17240	17240	34480	34480	34480	34480									172400
11	Keyal Khwar		459	331	1083	1918	3060	2990	1809										11650
12	Phandar					1120	1680	1680	1120										5600
13	Basho					560	1120	1120											2800
14	Lawi		58	59	845	1643	2351	1659	455										7070
15	Dasu						31200	62400	62400	93600	124800	124800	62400	62400					624000
16	Bunji							54704	54704	82056	109408	109408	54704	54704	27352				547040
17	Akhori											26400	26400	52800	52800	52800	52800		264000
18	Lower Spatgah								4912	4912	9824	9824	9824	9824					49120
19	Palas Valley									5336	5336	10672	10672	10672	10672				53360
	Total	15233	84461	91445	125889	134099	190042	285551	279331	300464	286648	313184	196400	190400	90824	52800	52800	0	2689571

1US\$=80 Rs.

FUNDS REQUIRED FOR CONSTRUCTING RESERVOIRS

YEAR	FUNDING (Rs in Millions)	RESERVOIR* (MAF)	PROJECT COMING ONLINE DURING THE YEAR (MAF)
2006-07	15989	0.152	Mirani (0.152)
2007-08	25893	0.167	Sabakzai (0.015)
2008-09	9290	0.167	Nil
2009-10	100416	3.100	Mangla Raising (2.88), Satpara (0.053)
2010-11	85754	3.992	Gomal Zam (0.892)
2011-12	102372	3.992	Nil
2012-13	103126	4.892	Kurram Tangi (0.9)
2013-14	98567	5.945	Naulong (0.198), Hingol (0.816), Khadeji (0.039)
2014-15	102800	5.945	Nil
2015-16	103760	5.945	Nil
2016-17	80080	6.615	Munda (0.67)
2017-18	37280	6.615	Nil
2018-19	58480	6.615	Nil
2019-20	58800	13.015	Diamer Basha (6.4)
2021-21	52800	13.015	Nil
2021-22	52800	13.015	Nil
2022-23	52800	13.015	Nil
2023-24	52800	19.015	Akhori (6.0)
	Total	28.935	19.015 + 9.92 = Reservoir added + Existing reservoirs

Note: Only Diamer Basha, Mangla Raising, Akhori and Munda lie in Indus Basin (15.95 MAF)

YEARWISE FUNDS (RS MILLION) REQUIRED FOR CONSTRUCTING RESERVOIRS

#	Name of Project	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Project Cost
1	Mangla Raising	8000	25000																101384
2	Satpara Dam	50	1550																4806
3	Gomal Zam	1000	5300	4092															12829
4	Diamer Basha	240	49920	47040	64080	76240	79120	88400	89360	65680	37280	32080	32400						661840
5	Kurram Tangi		10201	21117	13671	8504													53493
6	Munda				7200	7200	14400	14400	14400	14400									72000
7	Akhori											26400	26400	52800	52800	52800	52800		264000
8	Naulong Dam		2178	2904	3630	3550	2259												14521
9	Hingol Dam		2446	3248	4079	4008	2543												16324
10	Nai Gaj		2775	5894	7636	2195													18500
11	Khadeji Dam		236	315	394	385	245												1575
12	Ghabir Dam		425	630	740	314													2109
13	Winder Dam		385	514	942	730													
	Total	9290	100416	85754	102372	103126	98567	102800	103760	80080	37280	58480	58800	52800	52800	52800	52800	0	1223381

1US\$=80 Rs.

FUNDS REQUIRED FOR HYDROPOWER GENERATION & RESERVOIR CONSTRUCTION

YEAR	GENERATION (MW)		RESERVOIR (MAF)		FUNDING (Rs in Millions)
	MW	Finances	MAF	Finances	
2008-09	-	15233	0.167	9290	24283
2009-10	-	84461	3.100	100416	134957*
2010-11	168	91445	3.992	85754	130159*
2011-12	525	125889	3.992	102372	156981*
2012-13	608	134099	4.892	103126	153785*
2013-14	608	190042	5.945	98567	195089*
2014-15	636	285551	5.945	102800	285551*
2015-16	1877	279331	5.945	103760	279331*
2016-17	3717	300464	6.615	80080	300464*
2017-18	3717	286648	6.615	37280	286648*
2018-19	3717	313184	6.615	58480	313184*
2019-20	8217	196400	13.015	58800	196400*
2021-21	13104	190400	13.015	52800	190400*
2021-22	20725	90824	13.015	52800	90824*
2022-23	20725	52800	13.015	52800	52800*
2023-24	21325	52800	19.015	52800	52800*

* Diامر Basha Dam, Kurram Tangi, Akhori & Munda appearing in both Generation and Reservoir Projects