

Appendix 16: Annual Fund Requirement (for the entire project)

Base Year for Cost Estimation: Oct, 2013  
 Exchange Rates: BDT = Yen 1.28  
 Price Escalation: FC: 1.3% LC: 3.4%  
 Physical Contingency: 5%  
 Physical Contingency for Consultant: 5%

FC & Total: million JPY  
 LC : million BDT

Physical Contingency for Consultant		3%			Total			2014			2015			2016			2017			2018			2019			2020			2021			2022			2023		
Item	Item	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total			
A. ELIGIBLE PORTION																																					
17)	Procurement/Construction	0	10,568	10,568	0	0	0	0	0	183	234	417	0	1,083	1,387	2,466	0	2,247	2,878	5,125	0	2,323	2,974	5,297	0	1,655	2,118	3,773	0	1,325	1,696	3,021	0	457	584	1,041	
	Component 1 (Flood management Infrastructure)	0	3,735	3,735	0	0	0	0	0	0	0	0	0	0	138	177	315	0	830	1,062	1,892	0	830	1,062	1,892	0	830	1,062	1,892	0	277	354	631	0	0	0	
	Component 2 (Rural Infrastructure)	0	3,802	3,802	0	0	0	0	0	141	180	321	0	845	1,081	1,926	0	845	1,081	1,926	0	845	1,081	1,926	0	845	1,081	1,926	0	299	384	683	0	0	0		
	Component 3-1 (Agriculture)	0	212	212	0	0	0	0	0	0	0	0	0	0	8	10	18	0	47	60	107	0	47	60	107	0	47	60	107	0	16	20	36	0	0	0	
	Component 3-2 (Fishery)	0	582	582	0	0	0	0	0	22	28	50	0	88	113	201	0	88	113	201	0	88	113	201	0	88	113	201	0	29	38	67	0	0	0		
	Base cost for JICA financing	0	8,331	8,331	0	0	0	0	0	163	208	371	0	933	1,195	2,128	0	1,079	1,382	2,461	0	1,810	2,317	4,127	0	1,247	1,596	2,843	0	965	1,238	2,203	0	0	0		
	Price escalation	0	1,734	1,734	0	0	0	0	0	11	14	25	0	98	126	224	0	329	422	751	0	402	515	917	0	286	379	665	0	113	145	258	0	0	0		
	Physical contingency	0	503	503	0	0	0	0	0	9	11	20	0	52	66	118	0	62	79	141	0	111	142	253	0	63	81	144	0	22	28	50	0	0	0		
18)	Consulting services	344	1,093	1,437	0	0	0	0	0	72	125	197	33	174	295	469	38	164	248	412	35	166	252	418	32	125	191	316	20	70	110	180	1	1	2		
	Base cost	309	876	1,185	0	0	0	0	0	67	111	178	30	105	164	269	34	132	203	344	31	107	167	277	27	91	144	17	50	80	3	1	4	0	0		
	Component 1 & 3-1	230	265	495	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Boring, Soil test, Survey, RAP, EIA, etc.	0	203	203	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Component 2 & 3-2	79	265	344	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Boring, Soil test, Survey, RAP, EIA, etc.	0	142	142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Price escalation	19	185	204	0	0	0	0	0	2	8	10	2	15	21	38	2	24	33	3	29	40	3	28	39	3	28	39	2	17	24	0	0	1			
	Physical contingency	16	52	68	0	0	0	0	0	3	6	9	3	8	10	18	2	8	12	3	12	16	2	10	14	2	6	9	1	3	5	0	0	0			
	Total (A+B)	344	11,661	12,005	0	0	0	0	0	72	308	380	33	1,422	1,852	3,274	38	2,410	3,124	39	2,489	3,225	35	1,796	2,335	32	1,449	1,887	20	527	694	3	1	5			
B. NON ELIGIBLE PORTION																																					
19)	Procurement/Construction	0	1,758	1,758	0	0	0	0	0	51	65	116	0	316	405	721	0	836	1,030	1,866	0	836	1,030	1,866	0	836	1,030	1,866	0	270	345	615	0	0	0		
	Base cost for GOB financing Component 1	0	193	193	0	0	0	0	0	0	0	0	0	0	7	9	16	0	43	55	98	0	43	55	98	0	43	55	98	0	14	18	32	0	0		
	Base cost for GOB financing Component 2	0	1,226	1,226	0	0	0	0	0	45	58	103	0	272	349	621	0	272	349	621	0	272	349	621	0	272	349	621	0	0	0	0	0	0	0		
	Base cost for GOB	0	1,419	1,419	0	0	0	0	0	45	58	103	0	272	349	621	0	272	349	621	0	272	349	621	0	272	349	621	0	0	0	0	0	0	0		
	Price escalation	0	253	253	0	0	0	0	0	3	4	7	0	29	37	66	0	40	51	91	0	40	51	91	0	40	51	91	0	14	18	32	0	0	0		
	Physical contingency	0	84	84	0	0	0	0	0	2	3	5	0	15	19	34	0	19	24	43	0	19	24	43	0	19	24	43	0	5	6	11	0	0			
20)	Land Acquisition	0	3,959	3,959	0	0	0	0	0	107	137	244	0	655	839	1,494	0	677	867	1,544	0	680	870	1,550	0	683	876	1,559	0	0	0	0	0	0	0		
	Base cost for Component 1	0	2,449	2,449	0	0	0	0	0	40	51	91	0	482	617	1,099	0	482	617	1,099	0	482	617	1,099	0	482	617	1,099	0	0	0	0	0	0	0		
	Base cost for Component 2	0	351	351	0	0	0	0	0	55	70	125	0	83	106	189	0	83	106	189	0	83	106	189	0	83	106	189	0	0	0	0	0	0	0		
	Price escalation	0	494	494	0	0	0	0	0	7	8	15	0	60	76	136	0	61	78	139	0	61	78	139	0	61	78	139	0	0	0	0	0	0	0		
	Physical contingency	0	185	185	0	0	0	0	0	5	7	12	0	31	40	71	0	32	41	73	0	33	43	76	0	33	43	76	0	0	0	0	0	0	0		
	Administration cost	0	1,220	1,220	0	0	0	0	0	71	91	162	0	109	138	247	0	119	150	269	0	125	158	283	0	127	161	288	0	0	0	0	0	0	0		
21)	VAT	0	1,053	1,053	0	0	0	0	0	62	80	142	0	245	313	558	0	267	342	609	0	278	358	636	0	283	365	648	0	0	0	0	0	0	0		
22)	Import tax	0	1,467	1,467	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Total (B+C+D)	0	6,467	6,467	0	0	0	0	0	281	373	654	0	1,316	1,695	2,999	0	1,303	1,790	3,092	0	1,303	1,790	3,092	0	1,303	1,790	3,092	0	0	0	0	0	0	0		
	TOTAL (A+B)	344	20,148	20,492	0	222	284	72	599	839	72	2,574	3,367	33	2,824	3,648	6,273	38	4,103	5,290	39	4,181	5,391	35	3,087	3,989	32	1,860	2,413	20	684	895	3	14	22		
C. Interest during Construction																																					
	Interest during Construction (Const.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	Interest during Construction (Consul.)	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
D. Commitment Charge																																					
	GRAND TOTAL (A+B+C+D)	352	20,148	20,500	0	222	284	72	599	839	72	2,574	3,367	33	2,824	3,648	6,273	38	4,103	5,291	40	4,181	5,392	36	3,087	3,989	33	1,860	2,414	21	684	898	4	14	22		
E. JICA finance portion (A)																																					
		344	11,661	12,005	0	0	0	0	0	72	308	380	33	1,422	1,852	3,274	38	2,410	3,124	39	2,489	3,225	35	1,796	2,335	32	1,449	1,887	20	527	694	3	1	5			

Appendix 17-1: Annual Fund Requirement for BWDB portion

Base Year for Cost Estimation: Oct, 2013  
Exchange Rates: BDT = Yen 1.28  
Price Escalation: FC: 1.3% LC: 3.4%  
Physical Contingency 5%  
Physical Contingency for Consultant 5%

FC & Total: million JPY  
LC : million BDT

Item	Total			2014			2015			2016			2017			2018			2019			2020			2021			2022			2023			
	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total				
A. ELIGIBLE PORTION																																		
Procurement / Construction	0	5,172	6,620	0	0	0	0	0	0	0	0	0	0	175	225	0	1,089	1,399	0	1,126	1,441	0	1,164	1,490	0	1,203	1,540	0	1,245	1,531	0	0	0	
Component1 (Flood management infrastructure)	0	3,735	4,781	0	0	0	0	0	0	0	0	0	0	138	177	0	830	1,062	0	830	1,062	0	830	1,062	0	830	1,062	0	277	354	0	0	0	
Component-3-1(Agriculture)	0	212	271	0	0	0	0	0	0	0	0	0	0	8	10	0	47	60	0	47	60	0	47	60	0	47	60	0	16	20	0	0	0	
Base cost for JICA financing	0	3,947	5,052	0	0	0	0	0	0	0	0	0	0	146	187	0	877	1,123	0	877	1,123	0	877	1,123	0	877	1,123	0	292	374	0	0	0	
Price escalation	0	978	1,252	0	0	0	0	0	0	0	0	0	0	21	27	0	160	204	0	195	249	0	231	296	0	269	344	0	103	131	0	0	0	
Physical contingency	0	249	315	0	0	0	0	0	0	0	0	0	0	8	11	0	52	66	0	54	69	0	55	71	0	57	73	0	20	25	0	0	0	
Consulting services	256	591	1,013	0	0	0	55	65	138	61	88	173	21	44	78	27	83	135	27	87	139	27	84	135	28	88	141	28	84	149	69	3	5	
Base cost	230	469	831	0	0	0	51	58	125	56	75	162	19	37	58	24	68	111	24	68	111	24	63	105	24	65	106	5	35	49	3	1	4	
Component 1& 3-1	230	286	570																															
Boring, Soil test, Survey, RAP, EIA, etc.	0	203	260																															
Price escalation	14	94	134	0	0	0	1	4	6	2	8	12	1	5	8	2	12	17	2	16	21	2	17	24	3	20	28	1	12	16	0	0	1	
Physical contingency	12	28	48	0	0	0	3	3	7	3	4	8	1	2	4	1	4	6	1	4	7	1	4	6	1	4	7	0	2	3	0	0	0	
Total (A+B+C+D+E)	256	5,763	7,532	0	0	0	55	65	138	61	88	173	21	220	303	27	1,173	1,528	27	1,213	1,580	27	1,248	1,625	28	1,292	1,681	6	464	600	3	1	5	
B. NON ELIGIBLE PORTION																																		
Procurement / Construction	0	253	324	0	0	0	0	0	0	0	0	0	0	9	11	0	53	68	0	55	71	0	57	73	0	59	75	0	20	26	0	0	0	
Component 1 (Flood management infrastructure)	0	193	247	0	0	0	0	0	0	0	0	0	0	7	9	0	43	55	0	43	55	0	43	55	0	43	55	0	14	18	0	0	0	
Base cost for GOB financing	0	193	247	0	0	0	0	0	0	0	0	0	0	7	9	0	43	55	0	43	55	0	43	55	0	43	55	0	14	18	0	0	0	
Price escalation	0	48	61	0	0	0	0	0	0	0	0	0	0	1	1	0	8	10	0	10	12	0	11	14	0	13	17	0	5	6	0	0	0	
Physical contingency	0	12	15	0	0	0	0	0	0	0	0	0	0	1	1	0	3	3	0	3	3	0	3	3	0	3	4	0	1	1	0	0	0	
Land Acquisition	0	3,038	3,889	0	0	0	45	58	103	59	76	135	7	16	23	0	598	765	0	618	791	0	639	818	0	660	840	0	20	26	0	0	0	
Base cost	0	2,449	3,135	0	0	0	40	51	91	48	61	109	0	482	617	0	482	617	0	482	617	0	482	617	0	482	617	0	0	0	0	0	0	0
Price escalation	0	444	569	0	0	0	3	4	7	5	6	11	0	69	88	0	88	112	0	107	137	0	127	163	0	148	188	0	0	0	0	0	0	0
Physical contingency	0	145	185	0	0	0	2	3	5	2	3	5	0	28	35	0	28	36	0	29	38	0	30	39	0	31	40	0	0	0	0	0	0	0
Administration cost	0	483	592	0	0	0	10	13	23	10	13	23	0	47	59	0	92	118	0	95	122	0	98	126	0	101	129	0	24	31	0	0	0	
VAT	0	932	1,193	0	0	0	16	21	37	20	26	46	0	37	47	0	187	239	0	193	248	0	198	255	0	206	264	0	73	94	0	0	0	
Import tax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total (A+B+C+D+E)	0	2,688	3,408	0	0	0	55	65	138	61	88	173	21	220	303	27	1,173	1,528	27	1,213	1,580	27	1,248	1,625	28	1,292	1,681	6	464	600	3	1	5	
TOTAL (A+B)	256	10,449	13,631	0	0	0	55	65	134	227	61	702	959	21	884	1,153	27	2,103	2,720	28	2,175	2,811	27	2,241	2,897	28	1,625	2,109	7	582	752	4	2	7
C. Interest during Construction																																		
Interest during Construction (Const.)	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	0	1	0	1		
Interest during Construction (Consul.)	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
D. Commitment Charge																																		
GRAND TOTAL (A+B+C+D)	260	10,449	13,634	0	0	0	55	65	134	227	61	702	959	21	884	1,153	27	2,103	2,720	28	2,175	2,812	28	2,241	2,897	28	1,625	2,109	7	582	752	4	2	7
E. JICA finance portion (A)																																		
	256	5,763	7,532	0	0	0	55	65	138	61	88	173	21	220	303	27	1,173	1,528	27	1,213	1,580	27	1,248	1,625	28	1,292	1,681	6	464	600	3	1	5	

Appendix 17-2: Annual Fund Requirement for LGED portion

Item	Total			2014			2015			2016			2017			2018			2019			2020			2021			2022			2023			
	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total				
A. ELIGIBLE PORTION																																		
I. Procurement / Construction	0	5,398	5,907	0	0	0	0	183	234	0	1,083	1,387	0	1,120	1,434	0	1,158	1,483	0	1,198	1,533	0	491	628	0	121	155	0	42	53	0	0	0	
Component 2 (Rural Infrastructure)	0	3,802	4,897	0	0	0	0	141	180	0	845	1,081	0	845	1,081	0	845	1,081	0	845	1,081	0	282	360	0	0	0	0	0	0	0	0	0	
Component 3-2 (Fishery)	0	582	745	0	0	0	0	22	28	0	88	113	0	88	113	0	88	113	0	88	113	0	88	113	0	29	38	0	0	0	0	0	0	
Base cost for JICA financing	0	4,384	5,611	0	0	0	0	163	209	0	933	1,195	0	933	1,195	0	933	1,195	0	933	1,195	0	370	474	0	88	113	0	29	38	0	0	0	
Price escalation	0	755	967	0	0	0	0	11	14	0	98	128	0	134	171	0	170	217	0	207	265	0	98	125	0	27	35	0	10	13	0	0	0	
Physical contingency	0	257	329	0	0	0	0	9	11	0	52	66	0	53	68	0	55	71	0	57	73	0	23	30	0	6	7	0	2	3	0	0	0	
II. Consulting services (for LGED)	88	502	731	0	0	0	17	60	94	12	87	122	11	82	116	11	79	113	12	78	113	18	58	82	14	36	60	14	21	41	0	0	0	
Base cost	79	406	599	0	0	0	16	54	84	11	75	106	10	68	98	10	64	92	10	62	89	7	43	62	4	26	37	12	15	31	0	0	0	
Component 2 & 3-2	79	265	418																															
Boring, Soil test, Survey, RAP, EIA, etc.	0	142	181																															
Price escalation	5	71	97	0	0	0	0	4	5	0	8	10	1	10	13	1	12	16	1	14	18	1	11	15	0	8	11	1	5	8	0	0	0	
Physical contingency	4	24	36	0	0	0	1	3	4	1	4	6	1	4	6	1	4	5	1	4	5	0	3	4	0	2	2	1	1	2	0	0	0	
Total (I+II)	88	5,898	7,638	0	0	0	17	243	328	12	1,170	1,509	11	1,202	1,550	11	1,237	1,595	12	1,277	1,646	18	548	710	14	157	206	14	63	95	0	0	0	
B. NON-ELIGIBLE PORTION																																		
a. Procurement / Construction	0	1,502	1,923	0	0	0	0	51	65	0	316	405	0	327	418	0	338	433	0	350	447	0	120	154	0	0	0	0	0	0	0	0	0	
GOB portion	0	1,226	1,589	0	0	0	0	45	58	0	272	349	0	272	349	0	272	349	0	272	349	0	91	116	0	0	0	0	0	0	0	0	0	0
Base cost for GOB financing	0	1,226	1,589	0	0	0	0	45	58	0	272	349	0	272	349	0	272	349	0	272	349	0	91	116	0	0	0	0	0	0	0	0	0	0
Price escalation	0	205	262	0	0	0	0	3	4	0	29	37	0	39	50	0	50	63	0	61	77	0	24	31	0	0	0	0	0	0	0	0	0	
Physical contingency	0	72	92	0	0	0	0	2	3	0	15	19	0	16	20	0	16	21	0	17	21	0	6	7	0	0	0	0	0	0	0	0	0	
b. Land Acquisition	0	421	539	0	0	0	0	62	79	0	98	123	0	99	127	0	102	131	0	62	79	0	0	0	0	0	0	0	0	0	0	0	0	0
Base cost	0	351	449	0	0	0	0	55	70	0	83	106	0	83	106	0	83	106	0	48	62	0	0	0	0	0	0	0	0	0	0	0	0	0
Price escalation	0	50	64	0	0	0	0	4	5	0	9	11	0	12	15	0	15	19	0	11	14	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical contingency	0	20	26	0	0	0	0	3	4	0	5	6	0	5	6	0	5	6	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0
c. Administration cost	0	757	969	0	222	284	0	63	81	0	166	214	0	81	104	0	84	107	0	73	93	0	75	96	0	53	68	0	27	35	0	12	16	
d. VAT	0	1,120	1,434	0	0	0	0	46	59	0	224	287	0	231	295	0	235	304	0	245	314	0	101	130	0	24	31	0	11	14	0	5	7	
e. Import Tax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total (a+b+c+d+e)	0	3,801	4,865	0	222	284	0	222	284	0	702	898	0	733	945	0	762	975	0	730	934	0	297	380	0	77	99	0	38	49	0	17	22	
TOTAL (A+B)	88	9,699	12,503	0	222	284	17	465	612	12	1,872	2,408	11	1,940	2,495	11	1,999	2,571	12	2,006	2,580	18	846	1,090	14	235	305	14	102	144	0	12	16	
C. Interest during Construction																																		
Interest during Construction (Const.)	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	0	1	1	0	1	0	0	0	
Interest during Construction (Consul.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
D. Commitment Charge																																		
GRAND TOTAL (A+B+C+D)	92	9,699	12,507	0	222	284	17	465	612	12	1,872	2,408	12	1,940	2,495	12	1,999	2,571	12	2,006	2,580	19	846	1,091	15	235	305	14	102	145	0	12	16	
E. JICA finance portion (A)																																		
	88	5,898	7,638	0	0	0	17	243	328	12	1,170	1,509	11	1,202	1,550	11	1,237	1,595	12	1,277	1,646	18	548	710	14	157	206	14	63	95	0	0	0	