

Price Item No.	PRICE ITEM DESCRIPTION	Area	UNIT OF MEASURE	Qty	Aecon		Salini		IKC		Astaldi	
					MAN HOURS (AT SITE) per UNIT	Hours	MAN HOURS (AT SITE) per UNIT	Hours	MAN HOURS (AT SITE) per UNIT	Hours	MAN HOURS (AT SITE) per UNIT	Hours
50	Concrete	NTD	m ³	9,130	4.65	42,455	3.28	29,946	6.00	54,763	3.63	33,142
81	Concrete Below El. 42.30 m	CTD	m ³	27,200	4.70	127,840	4.28	116,360	5.41	147,199	3.91	106,352
82	Concrete Above El. 42.30 m	CTD	m ³	2,230	5.30	11,819	4.28	9,540	7.94	17,717	3.86	8,608
124	Concrete	STD	m ³	9,700	5.30	51,410	3.28	31,796	6.88	66,761	3.71	35,987
142	Concrete - Separation Wall	Seperation Wall	m ³	10,850	5.50	59,675	4.28	46,416	6.76	73,397	4.70	50,995
158	Concrete - Slabs	Spillway	m ³	13,100	1.95	25,545	3.97	52,027	5.18	67,807	2.46	32,226
159	Concrete - Piers and Walls	Spillway	m ³	32,900	12.60	414,540	4.93	162,209	11.62	382,430	7.21	237,209
160	Concrete - Rollways	Spillway	m ³	19,500	3.21	62,595	3.82	74,429	6.01	117,185	2.43	47,385
228	Concrete - Substructure below El. 45.5 m	Intake	m ³	143,850	5.50	791,175	4.93	709,232	9.59	1,379,403	4.35	625,748
257	Concrete - Powerhouse Substructure below El. 6.5 m	Powerhouse	m ³	137,900	6.10	841,190	4.93	679,896	7.73	1,066,064	3.36	463,344
258	Concrete - Substructure between lines 6 and 7, including Sump Pit, Shafts for Stair & Elevator up to El. 45.5m	Powerhouse	m ³	14,600	7.80	113,880		57,383		201,356		149,942
							3.93		13.79		10.27	
Total/Average				420,960	6.04	2,542,124	4.68	1,969,234	8.49	3,574,081	4.25	1,790,937

MY - ESTIMATE 5.15 MAN-HRS/M³

Price Item	Cost Category 1	Cost Category 2	PRICE ITEM DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY of UNITS A	Hrs/Unit	Labour Component					
							Labour cost/unit	Total labour Cost	Total Materials		Total Profit and	
									Cost	Total Equip Cost	Other	Total Non-Labour
50	TRANSITION DAMS	NORTH TRANSITION DAM	Concrete	m³	9,130	3.90	297	2,707,565	1,448,064	484,830	135,303	2,068,197
81	TRANSITION DAMS	CENTRE TRANSITION DAM	Concrete Below El. 42.00 m	m³	26,900	4.17	317	8,525,283	4,286,192	1,354,227	394,829	6,035,248
82	TRANSITION DAMS	CENTRE TRANSITION DAM	Concrete Above El. 42.00 m	m³	2,550	4.12	313	798,737	439,908	128,176	39,766	607,850
83	TRANSITION DAMS	CENTRE TRANSITION DAM	Concrete - Slab on Steel Deck	m³	150	3.96	301	45,118	25,697	4,026	2,081	31,804
84	TRANSITION DAMS	CENTRE TRANSITION DAM	Grout	m³	17	2.34	185	3,144	17,415	3,601	1,471	22,487
124	TRANSITION DAMS	SOUTH TRANSITION DAM	Concrete	m³	9,700	3.97	302	2,932,475	1,538,148	472,109	140,718	2,150,975
142	TRANSITION DAMS	SEPARATION WALL	Concrete - Separation Wall	m³	10,850	4.97	376	4,078,092	1,747,685	846,463	181,590	2,775,739
158	SPILLWAY	SPILLWAY STRUCTURE	Concrete - Slabs	m³	13,100	2.73	207	2,715,460	2,459,813	461,775	204,511	3,126,099
159	SPILLWAY	SPILLWAY STRUCTURE	Concrete - Piers and Walls	m³	32,900	7.47	558	18,356,029	7,117,882	3,671,048	755,225	11,544,155
160	SPILLWAY	SPILLWAY STRUCTURE	Concrete - Rollways	m³	19,500	2.69	204	3,986,424	3,867,786	659,178	316,887	4,843,851
161	SPILLWAY	SPILLWAY STRUCTURE	Demolition of Slab for Rollway Key	m³	200	0.47	37	7,499	1,502	644	150	2,296
162	SPILLWAY	SPILLWAY STRUCTURE	Overbreak Concrete	m³	3,000	2.08	160	479,040	588,165	79,017	46,703	713,885
163	SPILLWAY	SPILLWAY STRUCTURE	Grout	m³	20	2.34	185	3,699	20,488	4,236	1,731	26,455
187	SPILLWAY	SPILLWAY BRIDGES	Concrete - Slab on Bridge Deck	m³	460	3.60	274	126,052	87,142	12,191	6,953	106,287
197	SPILLWAY	SPILLWAY DISCHARGE CHANNEL - PHASE 1	Concrete - Slabs (CVC)	m³	1,725	4.16	320	551,777	363,975	89,674	31,755	485,405
198	SPILLWAY	SPILLWAY DISCHARGE CHANNEL - PHASE 1	Concrete - Walls (CVC)	m³	700	6.66	501	350,607	149,778	69,331	15,338	234,446
199	SPILLWAY	SPILLWAY DISCHARGE CHANNEL - PHASE 1	Overbreak Concrete	m³	1,600	1.96	154	246,402	330,221	43,613	26,168	400,002
203	SPILLWAY	SPILLWAY DISCHARGE CHANNEL - PHASE 2 - OPTIONAL	Concrete - Slabs (CVC)	m³	750	2.73	207	155,465	140,829	26,438	11,709	178,975
204	SPILLWAY	SPILLWAY DISCHARGE CHANNEL - PHASE 2 - OPTIONAL	Concrete - Walls (CVC)	m³	300	9.69	696	208,660	68,666	58,009	8,867	135,543
205	SPILLWAY	SPILLWAY DISCHARGE CHANNEL - PHASE 2 - OPTIONAL	Overbreak Concrete	m³	700	2.08	160	111,776	137,239	18,437	10,897	166,573
209	SPILLWAY	SPILLWAY DISCHARGE CHANNEL - PHASE 3 - OPTIONAL	Concrete - Slabs (CVC)	m³	2,000	2.73	207	414,574	375,544	70,500	31,223	477,267
210	SPILLWAY	SPILLWAY DISCHARGE CHANNEL - PHASE 3 - OPTIONAL	Concrete - Walls (CVC)	m³	200	9.69	696	139,106	45,777	38,673	5,912	90,362
211	SPILLWAY	SPILLWAY DISCHARGE CHANNEL - PHASE 3 - OPTIONAL	Overbreak Concrete	m³	2,000	2.08	160	319,360	392,110	52,678	31,135	475,923
228	INTAKE	INTAKE STRUCTURE	Concrete - Substructure below El. 45.5 m	m³	143,305	4.61	350	50,204,614	26,306,642	8,899,670	2,464,442	37,670,754
229	INTAKE	INTAKE STRUCTURE	Concrete - Gate Hoist Building and Elevator Room above El. 45.5 m	m³	1,646	9.93	744	1,224,678	316,475	187,491	35,278	539,243
230	INTAKE	INTAKE STRUCTURE	Overbreak Concrete	m³	3,000	1.93	152	454,767	548,439	81,714	44,111	674,264
257	POWERHOUSE	SUBSTRUCTURE	Concrete - Powerhouse Substructure below El. 6.5 m	m³	131,135	3.63	278	36,414,616	23,709,077	9,647,602	2,334,968	35,691,646
258	POWERHOUSE	SUBSTRUCTURE	Concrete - Substructure between lines 6 and 7, including Sump Pit, Shafts for Stair & Elevator up to El. 45.5m	m³	14,882	10.54	791	11,769,430	2,873,015	2,046,870	344,392	5,264,277
259	POWERHOUSE	SUBSTRUCTURE	Concrete - Slabs and Walls between El. 6.5 and 15.5, including North and South Service Bays, Slab on grade, Basins and Bases for GSU transformer up to El. 16.8 m. Air vent enclosures on Powerhouse tailrace deck and North Service Bay, Access enclosure to stair no. 8 and Oil/Water separator enclosure.	m³	6,692	9.97	748	5,008,052	1,279,296	878,178	151,023	2,308,497
260	POWERHOUSE	SUBSTRUCTURE	Concrete - Slab on Steel Deck including Mezzanines	m³	3,718	1.84	145	538,482	698,858	136,934	58,505	894,297
261	POWERHOUSE	SUBSTRUCTURE	Secondary Concrete of Draft Tube Cone Steel liner	m³	2,420	4.03	305	738,233	411,182	502,397	63,951	977,530
262	POWERHOUSE	SUBSTRUCTURE	Overbreak Concrete	m³	8,500	1.97	155	1,321,470	1,568,947	335,495	133,311	2,037,753
Totals					453,750	4.50		154,936,684	83,361,957	31,365,224	8,030,903	122,758,084

