

KIRU H. E. PROJECT**Calculation for Operating Pool (as per IWT 1960)**

Minimum Mean Discharge (MMD)	=	65.00	cumec
Turbine (all 4 units) discharge	=	586	cumec
Min env flow	=	16.33	cumec
Daily inflow = 24 hr X MMD	=	1560.00	cumec-hr
Minimum outflow to be released in a day=50% daily inflow	=	780.00	cumec-hr
Maximum outflow to be released in a day=130% daily inflow	=	2028.00	cumec-hr
Maximum pondage shall not exceed twice the pondage req. for firm power as per IWT			

Day	Time Period	No. of hrs.	Inflow (cumec-hr)	* Peaking & Releases (cumec-hr)	Storage (cumec-hr)	Cumulative Storage (cumec-hr)	Power generation	
							Time No. of hrs.	Power MW
<i>Opening balance =</i>						596		
Sat-Sun	0800-1700	9.00	585.00	146.97	438	1034	0.00	624
	1700-1800	1.00	65.00	574.89	-510	524	0.95	624
	1800-2400	6.00	390.00	97.98	292	816	0.00	624
	2400-0530	5.50	357.50	89.82	268	1084	0.00	624
	0530-0800	2.50	162.50	40.83	122	1206	0.00	624
Sun-Mon	0800-1700	9.00	585.00	146.97	438	1644	0.00	624
	1700-1800	1.00	65.00	602.33	-537	1106	1.00	624
	1800-2400	6.00	390.00	97.98	292	1398	0.00	624
	2400-0530	5.50	357.50	89.82	268	1666	0.00	624
	0530-0800	2.50	162.50	40.83	122	1788	0.00	624
Mon-Tue	0800-1700	9.00	585.00	146.97	438	2226	0.00	624
	1700-1800	1.00	65.00	602.33	-537	1688	1.00	624
	1800-2400	6.00	390.00	97.98	292	1980	0.00	624
	2400-0530	5.50	357.50	89.82	268	2248	0.00	624
	0530-0800	2.50	162.50	40.83	122	2370	0.00	624
Tue-Wed	0800-1700	9.00	585.00	146.97	438	2808	0.00	624
	1700-1945	2.75	178.75	1656.41	-1478	1330	2.75	624
	1945-2400	4.25	276.25	69.40	207	1537	0.00	624
	2400-0530	5.50	357.50	89.82	268	1805	0.00	624
	0530-0800	2.50	162.50	40.83	122	1926	0.00	624
Wed-Thu	0800-1700	9.00	585.00	146.97	438	2364	0.00	624
	1700-1945	2.75	178.75	1656.41	-1478	887	2.75	624
	1945-2400	4.25	276.25	69.40	207	1093	0.00	624
	2400-0530	5.50	357.50	89.82	268	1361	0.00	624
	0530-0800	2.50	162.50	40.83	122	1483	0.00	624
Thu-Fri	0800-1700	9.00	585.00	146.97	438	1921	0.00	624
	1700-1945	2.75	178.75	1656.41	-1478	443	2.75	624
	1945-2400	4.25	276.25	69.40	207	650	0.00	624
	2400-0530	5.50	357.50	89.82	268	918	0.00	624
	0530-0800	2.50	162.50	40.83	122	1039	0.00	624
Fri-Sat	0800-1700	9.00	585.00	146.97	438	1477	0.00	624
	1700-1945	2.75	178.75	1656.41	-1478	0	2.75	624
	1945-2400	4.25	276.25	69.40	207	207	0.00	624
	2400-0530	5.50	357.50	89.82	268	474	0.00	624
	0530-0800	2.50	162.50	40.83	122	596	0.00	624
Total =			10920.00	10920.00			13.953	

Pondage Required = **2808** cumec-hr
or **10.11** Mcum

Pondage allowed as per Indus Water Treaty = 2 x Reqd. Pondage = **20.22** Mcum

* Includes Discharge for environmental flow.


आयुक्ता सिंधु
Commissioner for Indus Water
भारत सरकार
Government of India