

## Bulk Water Supply Projects

**Karachi Water & Sewerage Board Contract-4 under the Pumping & Conveyance System for Balance Quantities of 4<sup>th</sup> Phase Water under Greater Karachi Bulk Water Supply Scheme. Laying of 84”, 66”, 54”, 33” and 24” Dia PRCC Pipes.**

### Scope of Work

- ✚ To provide 42 million gallons per day supply of Potable water by gravity to the city of Karachi by laying of Conveyance System from Greater Karachi Conduit at Tunnel End to LSR
- ✚ Earth work, excavation in all kind of soils/hard rock below water table, dewatering, providing of 84”, 66”, 54” and 33” dia PRCC and Steel Pipes, construction of service road, crossing of high pressure gas lines and utilities.
- ✚ Excavation in all kind of soils from 14ft upto 40ft depth and 14ft wide: 21.457Km trench in rough condition including rivers/Nalla beds (approx.): 700,000 Cum.
- ✚ Excavation in Hard rocks in similar depths approx.: 181,437 Cum
- ✚ Excavation in Underwater or Below Water Table in similar depths: 54,184.82 Cu.m
- ✚ Back filling of trenches after Laying of pipe approx.:342,656 Cum.
- ✚ Bailing and pumping-out water Trenches width 14ft in similar depth: 9417.68 RM trenches.
- ✚ Laying of Syphons parallel to KW&SB Syphon No.17 & 18: 1250 RM,
- ✚ RCC Transition Chamber/RCC Conduits/RCC Channels/RCC bends constructed from 14 to 40ft depth below ground level in the alignment of 84” dia pipes, Form Work in required shapes & dimensions and concrete placed in rough conditions including Rivers/Nalla Beds including pipeline protection works in rivers/Nalla: 6500 Cu.m.
- ✚ Disposal of overburden from the alignment of Transmission Main and Surplus excavated stuff beyond 10Km distance: 107,830 Cu.m
- ✚ Clearance of bushes, trees i/c site clearance 453,540.87 Sq.m. Providing and Laying of 84” dia PRCC/Steel Pipes: 21457.22 meter; 66”, 54” and 33” dia PRCC/Steel pipes: 5936.53 meters
- ✚ Providing and laying of Steel pipes i/c outer fiber glass coating with internal cement lining.
- ✚ Dismantling & Removal of existing wall in conduit at Tunnel End in running water by existing “Under Water Special Works” to make connection and to commission the water supply system.
- ✚ Stone pitching works in Malir River and Thaddo Nalla



**Client:**

Karachi Water & Sewerage Board

**Consultants:**

EA Consulting (Pvt) Ltd.  
(Formally Engineering Associates)

**Location**

Tunnel End Pipri to Karachi University, COD  
Hills Filter Plant to LSR Reservoir behind Civic  
Centre. Site of works located in the entire district  
of Karachi.



**Cost of Work**

Total Cost of the work Rs.505.33 Millions.

**The Completion of Work**

31<sup>st</sup> May, 2001

