
















SALIENT FEATURES OF KANKAI IRRIGATION SYSTEM

| | |
|---|--|
|  Name of the System | : <i>Kankai Irrigation System</i> |
|  Location | : <i>Gainde, Jhapa</i> |
| | : <i>26⁰ to 27⁰ N</i> |
| | : <i>87⁰ to 88⁰ E</i> |
|  Boundary of the System | : |
| East | : <i>Kankai River</i> |
| West | : <i>Kishna River</i> |
| North | : <i>Ilam District</i> |
| South | : <i>India</i> |
|  Elevation | : <i>75 to 120m above MSL</i> |
|  Source River | : <i>Kankai</i> |
|  Discharge of the river | : |
| Maximum discharge | : <i>5200 cumecs</i> |
| Minimum discharge | : <i>7.74 cumecs</i> |
|  Catchment area | : <i>1190 sq. km</i> |
| | : <i>Diversion Weir with under sluice (RCC) , Length – 126m; Scoring Sluice 16.5m with 3 sets of manually operated gates (3.5m *1.85m)</i> |
|  Type of diversion | : |
|  Command area | : |
| a . Total command area | : 8000 ha |
| b . Actual command area | : 7000 ha |
| | : (Winter 4000 ha, Spring 2500 ha, Monsoon 7000 ha) |
|  Municipality of the command area | : Shivsatakshi |
| | : <i>Gauradah</i> |
| Rural Municipal | : <i>Kamal</i> |
| | : <i>Gaurigunj</i> |
|  Beneficiary family | : 17,131 |
|  Beneficiary population | : 112,893 |
|  Average land holding | : 1.39 ha (1.11 ha cultivable) |
|  Canal Networks | : |
| Main Canal | : 36 km |
| Secondary canal | : 74 km (22 numbers) |
| Tertiary Canal | : 130 km (354 numbers) |
|  Physical facility of the project | |

| Details | Ist Phase | II nd phase | Total |
|--------------------|------------------|--------------------|--------------|
| • Diversion Work | 142 m (Weir) | | |
| • Main Canal | 24.5 km | 11.5 km | 36 km |
| • Secondary Canal | 57 km | 17 km | 74 km |
| • Tertiary Canal | 70 km | 40 km | 110 km |
| • Structures | 442 no | 242 no | 684 no |
| • Command area | 5000 ha | 2000 ha | 7000 ha |
| • Secondary Canals | 12 no | 10 no | 22 no |

| | | | |
|------------------------------------|--------|-------|--------|
| • Sub-secondary Canals | 31 no | 23 no | 54 no |
| • Tertiary Canals (from secondary) | 123 no | 76 no | 199 no |
| • Building/Garage/Store | 50 no | | 50 no |
| • Drain | 30 km | | 30 km |
| • Trunk Road | 20 km | 4 km | 24 km |
| • Agriculture farm | 40 ha | | 40 ha |



Main Canal Capacity

| Canal | Length | Capaci y | Remarks |
|---------------|---------------|-----------------|--------------------------|
| • Reach – I | 11.5 km | 10.15 cumecs | Concrete lining up to S4 |
| • Reach – II | 2.6 km | 4.55 cumecs | |
| • Reach – III | 2.8 km | 1.95 cumecs | |
| • Reach – IV | 5.5 km | 1.95 cumecs | |
| • Reach – V | 11.6 km | 7.225 cumecs | |



Date of start of water delivery

| | |
|-------------------------|-------------------|
| First phase in 700 ha | : since July 1977 |
| Second phase in 2000 ha | : since July 1978 |
| Third phase in 2300 ha | : since July 1979 |
| Fourth phase in 2000 ha | : since July 1992 |



Registration of WUA



Joint Management

- : 1st December 1993
- : Since 1993/94
- : NRs. 450 per crop per ha



ISF Collection Rate



WUA

- : Main Committee : 1 of 15 members
- : Secondary level Committee : 22 numbers
- : Sub-secondary & tertiary level committee : 181 numbers