**ANN - 5.1**

**Baseline study for Fisheries Development in Telangana state**

Morpho-metric and hydrological features of reservoirs

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| **Resources** | **Large reservoirs** |
| **LMD**   * Constructed across **Manair river**, a tributary of river Godavari. Year of construction :1985. * Earth cum Masonry type of construction. Earthen dam height - 26.822 m & Masonry dam height:40.538m. * Mean depth - 8.4 m, shallow; Water Depth at the time of visit : 19 m * Purpose - irrigation and drinking water supply. * Gross storage capacity: 680 million cubic meter ; Live storage capacity: 380.977 million cubic meter * Total Water Spread Area:- 8097 ha ; Total number gates – 20; Villages affected fully 12 and partially 4. * Command area for irrigation - 1.63 lakh ha WSA - 81 square kilometres at FRL of 920.00 ft. * Water level at FRL : + 280.416 m, top level of Dam is + 284.378 m and the Crest level is +273.1m. | |
| **Nizamsagar**  Constructed across Manjira river, a tributary of River Godavari; Year of Construction:1931;  Earth cum masonry type; Max. height - 95.72m and length - 6392.73m; catchment area: 21964 Sq. Km & TWSA: 12950 Ha  Purpose - irrigation and hydropower generation.  Water Depth at the time of visit : 22 m; Gross capacity before silting is 841.3 million cubic meters and after silting is 354 million cubic meters; No. of irrigation sluice-11; spill way gates: 3; No. Of villages affected- submerged: 40 nos;  Command area for irrigation: 1.11 lakh ha; no. of villages served:40 | |

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|  | **Medium reservoirs** |
| **Pocharam**  Barrage, Constructed across Alair river, a tributary of Manjira river which is a tributary of river Godavari;  Year of Construction – 1922; Earthen dam; Dam ht. 31 m ;length of dam:1311m; Purpose : irrigation  Water Depth at the time of visit : 21.5 m ; Type of spill way: Un-gated; Gross storage capacity 10 cu m. cube TWSA: 1683 ha | |
| **Saralasagar**  Constructed across Chinnavagu river, a tributary of river Krishna; Year of construction: 1959  Earthen filled gravity dam; Height above lowest foundation - 12 m ; Length of dam:1524 m  Purpose : irrigation and drinking; Water Depth at the time of visit : 15 m; Catchment area (Sq.Km) : 756.7  Full Reservoir Level (FRL) (m): 331.93; Type of spill way: Siphon technology; Gross storage capacity at FRL (MCM): 14  Water source: Monsoon run-off / by lift from River Krishna; Soil type: Red soil; Irrigated land: 1673 ha | |
|  | **Small reservoirs** |
| **Sri Rangasamudram**  Balancing reservoir, Krishna river basin , constructed during the year 1975, Earthen dam, length of dam – 2460 m; shallow  Purpose: irrigation and drinking; Water Depth at the time of visit : 8.5 m; Height above lowest foundation – 29 m | |
| **Ramanpad**  Constructed across **Ookachettivagu River**, a tributary of river Krishna; Also canal fed from Jurala project  Year of construction: 1972; Dam type: Gravity/ masonry dam; Dam ht. 12 m ; Length of dam: 254.95m; Purpose: irrigation and drinking; Water Depth at the time of visit : 8.5 m ; shallow; Catchment area (Sq.Km) : 4071.43 ; Full Reservoir Level (FRL) (m): 107; Water source: Monsoon run-off / by lift from River Krishna ; Soil type: red; Irrigate land area of: 1800 ha | |
| **Ralivagu**  Rain fed; Spill way discharge, Area at FRL – 301 ha;  Purpose – Irrigation; Water Depth at the time of visit : 5.8 m ; Forest catchment; high density of tree stumps  Uneven bottom profile; Shore rocky terrain & shallow; *Mastacemballus armatus* infected with nematodes | |
| **Gollavagu**  Rain fed; Spill way discharge, Area at FRL – 411 ha;  Purpose: Irrigation; Water Depth at the time of visit : 6.0m; Forest catchment; high density of tree stumps ; Uneven bottom profile; Shore rocky terrain & shallow; linking canal under construction; infested with submerged weed *Najas minor* | |
| **Indiramma sagar**  Constructed across Musi River ; Type- Earthen; Height above lowest foundation - 11.87 m, Length of dam - 1189 m  Gross storage capacity (103 m3) – 1330 ; Reservoir area (103 m3) – 26  Purpose: irrigation; Water Depth at the time of visit : 13.5 m ; Discharge spill way capacity (m2/sec): 958 | |
| **Thummalacheruvu**  Rain fed; Spill way discharge; Area at FRL – 580 ha  Purpose: Irrigation; Water Depth at the time of visit : 4.3 m: Forest catchment ; uneven bottom profile | |
| **Singetham**  Canal fed ; Area at FRL:440 ha ; No of gates: 2; Purpose: Irrigation; Water Depth at the time of visit : 5.2 m; Forest catchment ; Marginal & Submerged weeds are more; uneven bottom profile | |