

# Information Sheet on Ramsar Wetlands

As approved by Rec.C.4.7 of the Conference of the Contracting Parties, Montreux, Switzerland - July 1990

NOTE: Please read the accompanying guidelines before attempting to complete this form. An example of a completed data sheet is also included.

Completed sheets should be returned to: T.A. Jones, Ramsar Database, IWRB, Slimbridge, Gloucester GL2 7BX, England

1. Country: PAKISTAN 2. Date: 20-01-92 3. Ref: office use only ZPK004

4. Name and address of compiler:

T.A. Jones, IWRB/Ramsar Liaison Officer  
IWRB, Slimbridge, Gloucester GL2 7BX

5. Name of wetland: TANDA DAM

6. Date of Ramsar designation: 23 July 1976

7. Geographical coordinates: 33°35'N 71°22'E

8. General location: (e.g. administrative region and nearest large town)

7 km west of Kohat, N.W.F.P.

9. Area: (in hectares)

Ramsar site = 405 ha (the total area of the reservoir is 644 ha)

10. Wetland type: (see attached classification, also approved by Montreux Rec.C.4.7)

(6)

11. Altitude: (average and/or maximum & minimum)

528 m above sea level

12. Overview: (general summary, in two or three sentences, of the wetland's principal characteristics) A small water-storage reservoir in semi-arid hills in the catchment of the Kohat Toi river. Much of the shoreline is steep, stony and devoid of aquatic vegetation. Water levels fluctuate widely during the year.

13. Physical features: (e.g. geology; geomorphology; origins - natural or artificial; hydrology; soil type; water quality; water depth; water permanence; fluctuations in water level; tidal variations; catchment area; downstream area; climate)

The main source of water is the Kohat Toi river which lies in a neighbouring valley to the north. Water is taken from the river to the dam via a concrete canal and tunnel. Only a small amount of water reaches the dam from its own catchment.

Although most of the shoreline is steep & stony, there are some areas of gently shelving muddy shore with a little emergent vegetation at the west end. Local villagers cultivate mudflats exposed in this area during periods of low water levels.

Average depth 30.5m Average annual rainfall 300mm

pH = 6.5

Winter temperature range: 0°C-20°C; summer 24°C-45°C

14. Ecological features: (main habitats and vegetation types) The aquatic vegetation, where it occurs,

consists of *Cyperus* sp., *Phyla nodiflora*, *Polygonum plebejum*, *P. glabrum*, *Pulicaria crispa* & *Typha angustata*.

Vegetation of the surrounding hills has been much degraded as a result of grazing and wood-cutting. The natural vegetation of the region is tropical thorn forest intergrading with dry sub-tropical broad-leaved forest.

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**15. Land tenure /ownership of:**

(a) site *state owned*

(b) surrounding area *a mixture of state, communal & private ownership.*

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**16. Conservation measures taken:** (national category and legal status of protected areas - including any boundary changes which have been made; management practices; whether an officially approved management plan exists and whether it has been implemented)

*unprotected*

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**17. Conservation measures proposed but not yet implemented:** (e.g. management plan in preparation; officially proposed as a protected area etc.)

*The Ramsar Monitoring Procedure recommended that the dam be designated a "wetland of national importance", in view of its importance for migratory waterfowl.*

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**18. Current land use: principal human activities in:**

(a) site *agriculture  
water supply/irrigation  
fishing  
recreation*

(b) surroundings/catchment *grazing, agriculture*

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**19. Disturbances/threats, including changes in land use and major development projects:**

(factors which may have a negative impact on the ecological character of the wetland)

(a) at the site *The May 1990 Ramsar Monitoring Procedure Mission concluded that whilst no detrimental changes have occurred since designation of the site, Tanda Dam should be deleted from the Ramsar list on the grounds that it has clearly never fulfilled any of the Ramsar criteria.*

*The reservoir may be redeveloped in future for hydro-power.*

(b) in the surroundings/catchment

*Heavy grazing pressure & wood cutting*

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**20. Hydrological and physical values:** (groundwater recharge, flood control, sediment trapping, shoreline stabilisation etc.)

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**21. Social and cultural values:** (e.g. fisheries production, forestry, religious importance, archaeological site etc.)

the reservoir supports agriculture and a small fishery. It is very important for irrigation purposes.

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**22. Noteworthy fauna:** (e.g. unique, rare, endangered, abundant or biogeographically important species; include count data etc.)

the dam is of national importance (only) as a wintering area for waterfowl, principally Anatidae, and as a staging area for a wide variety of migratory species, notably shorebirds. However, it is reported that numbers of waterfowl seldom exceed 500 in mid-winter (mainly Anas platyrhynchos) and 2000 during the spring and autumn migrations. No threatened species of waterfowl are known to occur.

See also section 19.

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**23. Noteworthy flora:** (e.g. unique, rare, endangered, or biogeographically important species/communities etc.)

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**24. Current scientific research and facilities:** (e.g. details of current projects; existence of field station etc.)

Mid-winter counts are included in the IWRB database

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**25. Current conservation education:** (e.g. visitors centre, hides, information booklet, facilities for school visits etc.)

Good potential for development as a conservation education centre

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**26. Current recreation and tourism:** (state if wetland used for recreation/tourism; indicate type & frequency/intensity)

There are some facilities for outdoor recreation for the general public from nearby Kohat.

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**27. Management authority:** (name and address of body responsible for managing the wetland)

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**28. Jurisdiction:** (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept of Environment etc.)

N.W.F.P. Wildlife Department.

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**29. Bibliographical references:** (scientific/technical only)

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**30. Reasons for inclusion:** (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable)

see sections 19 & 22

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**31. Map of site** (please enclose the most detailed and up-to-date map available - preferably at least 1:25,000 or 1:50,000)

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Please return to: T.A. Jones, Ramsar Database, IWRB, Slimbridge, Gloucester GL2 7BX, England

Telephone: 44 - (0)453 890634

Telefax: 44 - (0)453 890827

Telex: 43 71 45 WWF-G