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 2PK007
4. Name and address of compiler: TAjones, IWRS/Ramser L	riansan Office
INRB, Slimbridge, Glou	uester GLZ 7BX UK
5. Name of wetland: DRIGH L	AKE
6. Date of Ramsar designation: 2	3 July 1976
7. Geographical coordinates: 27°	34'N 68°06'E
8. General location: (e.g. administrative region and 18 lun west of Larkana, Lar	-kana District, Sindh Province.
9. Area: (in hectares) 164ha	(182ha giver in Asian Wetlands Directory)
10. Wetland type: (see attached classification, also	approved by Montreux Rec.C.4.7)
11. Altitude: (average and/or maximum & minimum)	50m asi
12. Overview: (general summary, in two or three ser brackish lake with extendine m formerly an arm of the Indu Addie management has led to the industries in the 1970s of 80s as	arshes, situated on the Indus plain of arthur shows a siver, but now almost 30km from the river. nureuse of wintering waterfood following a result of situation or vegetationed succession.
	ogy; origins - natural or artificial; hydrology; soil type; water quality;
	a newby canal system & by local Several small streams enter the western
side of the lake.	
The lake is situated in an	over of cultivates plains, generally divided
Kadat Hills Ges some 80	cultivation. The limestone & sandstone
Climate is and Nub-tropical	. Av. annual rainfall = 175 mm. Summers
one hot (49°C in the share	le) and writes cool: au min temp.
in January 15 1.7°C.	
14. Ecological features: (main habitats and vego natural welland, supporting a Consisting of at least 19 agus	etation types) Digh hake is a very interesting semi- inch & diverse agreatic very etation atic/marshy habitats.
Species include Cyperus all	enifolius, Hydrilla verticillata, Nayas minor,
Scirpus littoralis, Ipomora aque	vica, Junius articulatus, J. maritimus,
Nymphala Lotus, Potamogetan	pertinating & Typha angustala. High ground
askas are mostly under on	lovation for rice.
)	5

15. Land tenure /ownership of:

(a) site state & private ownership.

(b) surrounding area

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) gazethed as a Wildlife Sanctuary in 1972. Cultivation, destruction of vegetation, hunting, shooting a trapping are prohibited.

A management plan was prepared by P. Conder in 1976/7.

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

Del section 19.

The SWHIS began a management programme is 1989 by cutting back Typhia to create mone open water. Other measures planned included deep aming of some parts of the lake or erection of bunds to reduce wastage of vale through over-spill. The 1990 Hanitoring Procedure Mission report commended these measures as "essential".

18. Current land use: principal human activities in:

(a) site nature conservation some illegal hundry's cutting of should for fuel livestock grazing

(b) surroundings/catchment agriculture (in cultivation)
graying of linestock

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 1900 Monitoring Procedure Mission concluded that the lake had decreased in Size in which years as a result of the divesion of flood water for imposes, siltertion and spread of emergent vegetation. By 1988, much of the welland had become criegioun with dense stands of Typha & Tamarix. This change had been reflected in a fall in numbers of wintering waterfowt. Heavy grazing was also thought to be a problem. However the mission also concluded that Digh should be retained on the Ramsov hist in view of the lakes continuing importance for witefoul of the introduction in 1989 of a management negrore under the auspiles of (b) in the surroundings/catchment.

see above - diversion of water for imgalian

20.1	Hydrological	and	physical	values:	(groundwater rech	arge, flood control.	sediment trapping	shoreline stabilisation etc.)
------	--------------	-----	----------	---------	-------------------	----------------------	-------------------	-------------------------------

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

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

An important breeding and wintering area for a wide variety of waterfood, and in recent year has supported a very large rocst of Nychicoak nychicoak (e.g. 5,000 in January 1990).

The lake regularly held >20,000 wintering waterfood in the early 1970s but numbers were generally much lower in the late 1970s and throughout the 1980s. However, following the commencement of management worth in 1989, 38,000 ducks were present in January 1990.

The area is also important for raptors.

1987-91 av = 28k.

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

No special values leron

5. Current conservation education: (e.g. visitors centre, hides, information booklet, facilities for school visits etc.) A bake is Aitmated less than 30km by road from the large town of arthura, thous providing excellent policibility for conservation - oriented ducation. A brilding on the edge of the lake (built in the large numbers) would make an excellent centre 5. Current recreation and tourism: (state if wetland used for recreation/ourism; indicate type & frequency/intensity) EL ALCHON ZS, above. 7. Management authority: (name and address of body responsible for managing the wetland) 8. Jurisdiction: (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept of Environment etc.) 9. Bibliographical references: (scientific/technical only)	4. Current scientific research and facilities: (e.g. details of current projects; existence of field station etc.)
Entitled in the TWRS AWL database. 5. Current conservation education: (e.g. visitors centre, hides, information booklet, facilities for school visits etc.) 12. Lake is historical less than 20 lan by road from the large town of arkana, thus providing extellect patheatical for conservation—oriental function of alculation. A bindling on the edge of the lake (built in the 1 g no humbers) lough but now abandoned would make an excellent centre. 5. Current recreation and tourism: (state if wetland used for recreation/tourism; indicate type & frequency/intensity) 2. A conservation of the lake (built in the 1 g not lake not an excellent centre of the lake (built in the 1 g not lake not lake the lake (built in the 1 g not lake not lake the lake (built in the 1 g not lake not lake the lake (built in the 1 g not lake the lake the lake (built in the 1 g not lake the lake	
Enclosed in the INRS AWC database. 5. Current conservation education: (e.g. visitors centre, hides, information booklet, facilities for school visits etc.) 1. Lake in historical less than 20 lens by road from the large town of arkana, thus providing excellent policities (for conservation—oriented arkana, thus providing excellent policities) on the edge of the lake (built in the large hut near abandance) would make an excellent control. 5. Current recreation and tourism: (state if wetland used for recreation/tourism; indicate type & frequency/intensity) 1. Management authority: (name and address of body responsible for managing the wetland) 7. Management authority: (name and address of body responsible for managing the wetland) 8. Jurisdiction: (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept of Environment etc.) 9. Bibliographical references: (scientific/technical only) 1. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.A.15 of the Montreux Conference - are applicable) 2. Lessons 19 y 22- 2. 3a 7, 3b.	
A lake is situated less than 20km by road from the large torm of arkana, thus providing excellent policibil for conservation—oriented ducation. A building on the edge of the lake (built in the part numbers) lodge but now abandaned would make an excellent central of. Current recreation and tourism: (sate if wetland used for recreation/lourism: indicate type & frequency/intensity) see Action 25, above. 7. Management authority: (name and address of body responsible for managing the wetland) 8. Jurisdiction: (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept of Environment etc.) 9. Bibliographical references: (scientific/technical only) 10. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) are stateward 19 x 22 -	Included in the IWRS AWC database.
7. Management authority: (name and address of body responsible for managing the wetland) 8. Jurisdiction: (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept of Environment etc.) 9. Bibliographical references: (scientific/technical only) 1. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) 1. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) 2. Lecture 19 y 22 - 30 7, 36	5. Current conservation education: (e.g. visitors centre, hides, information booklet, facilities for school visits etc.)
7. Management authority: (name and address of body responsible for managing the wetland) 8. Jurisdiction: (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept of Environment etc.) 9. Bibliographical references: (scientific/technical only) 1. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) 1. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) 2. Lecture 19 y 22 - 30 7, 36	re take is situated less than 30km by road from the large town of
7. Management authority: (name and address of body responsible for managing the wetland) 8. Jurisdiction: (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept of Environment etc.) 9. Bibliographical references: (scientific/technical only) 1. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) 1. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) 2. Lecture 19 y 22 - 30 7, 36	arkana, thus providing excellent potential for conservation-oriented ducation / recreation. A building on the edge of the lake (built in the son hunting lodge but now abandoned) would make an excellent central
7. Management authority: (name and address of body responsible for managing the wetland) 8. Jurisdiction: (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept of Environment etc.) 9. Bibliographical references: (scientific/technical only) 1. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) 1. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) 1. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) 2. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable)	6. Current recreation and tourism: (state if wetland used for recreation/tourism; indicate type & frequency/intensity)
3. Jurisdiction: (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept of Environment etc.) D. Bibliographical references: (scientific/technical only) 3. D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable)	ee section 25, above.
3. Jurisdiction: (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept of Environment etc.) D. Bibliographical references: (scientific/technical only) 3. D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable)	
3. Jurisdiction: (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept of Environment etc.) D. Bibliographical references: (scientific/technical only) 3. D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable)	
3. Jurisdiction: (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept of Environment etc.) D. Bibliographical references: (scientific/technical only) 3. D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable)	
3. Jurisdiction: (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept of Environment etc.) D. Bibliographical references: (scientific/technical only) 3. D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable)	7 Management authority: (same and address of body responsible for managing the westland)
D. Bibliographical references: (scientific/technical only) D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable)	1. 17 anagement authority. (hame and address of body responsible for managing the wedning)
D. Bibliographical references: (scientific/technical only) D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable)	
D. Bibliographical references: (scientific/technical only) D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable)	
D. Bibliographical references: (scientific/technical only) D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable)	
D. Bibliographical references: (scientific/technical only) D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Lethans 19 x 22 - 3 3 7, 36 -	8. Jurisdiction: (territorial e.g. state/region and functional e.g. Dept of Agriculture/Dept of Environment etc.)
D. Bibliographical references: (scientific/technical only) D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) Lethans 19 x 22 - 3 3 7, 36 -	
D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) see sections 19 x 22 - , 3a 7, 3b -	
D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) see sections 19 x 22 - , 3a 7, 3b -	그 그 그 그 사람이 아니는 사람이 아무워 그 것 않게 되는 것 같아.
D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) see sections 19 x 22 - , 3a 7, 3b -	
D. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable) see sections 19 x 22 - , 3a 7, 3b -	O Diblicana bisal references ()
ee declions 19 x 22.	9. Bibliographical references: (scientific/technical only)
ee declions 19 x 22.	5
ee declions 19 x 22.	
	0. Reasons for inclusion: (state which Ramsar criteria - as adopted by Rec.C.4.15 of the Montreux Conference - are applicable)
	a. 3a 73b.
. Map of site (please enclose the most detailed and up-to-date map available - preferably at least 1:25,000 or 1:50,000)	
. Map of site (please enclose the most detailed and up-to-date map available - preferably at least 1:25,000 or 1:50,000)	
	1. Map of site (please enclose the most detailed and up-to-date map available - preferably at least 1:25,000 or 1:50,000)