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SECTION A-1
B.SC AGRICULTURAL ENGINEERING

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COURSE TITLE: SOIL & WATER CONSERVATION
ENGINEERING

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TOPIC

INDUS RIVER

SUBMITTED BY : MUHAMMD SAAD

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INTRODUCTION

- ▶ Indus River is a great trans-Himalayan river of South Asia.
- ▶ longest rivers with a length of some 2,000 miles (3,200 km).
- ▶ Total drainage area is about 450,000 square miles.
- ▶ Annual flow 58 cubic miles



HISTORY



- ▶ Indus River originates in Tibet.
- ▶ At least 8,000 years old.
- ▶ The river's conventional name derives from the Tibetan and Sanskrit name Sindhu.

RIVER CAPACITY



- ▶ Receives an average annual water inflow of about 146 MAF.
- ▶ Mostly derived from snow and glacial melting.
- ▶ Pakistan's current water availability at various canal head works is about 97.71 MAF with estimated annual losses of 48.29 MAF.


STRUCTURE

- ▶ In Pakistan currently there are six barrages on the Indus.

(Guddu Barrage, Sukkur Barrage, Kotri Barrage, Taunsa Barrage, Chashma Barrage and Jinnah Barrage)

- ▶ Tarbela is only reservoir on Indus River.

AREA IRRIGATED BY INDUS RIVER

- ▶ The Indus River System (IRS) was developed into a complex network of canals.
 - ▶ 74% of its water was utilized for irrigation
 - ▶ During the period of British administration, large canal systems were constructed.
 - ▶ 8.5 to 18.2 MH in Pakistan and 2.02 to 8.5 MH in India.
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- ▶ The Indus River is the second most polluted river with plastic in the world.
- ▶ Contributes 164,332 tonnes of plastic waste (to the sea) annually.
- ▶ Return flow from agriculture.

POLLU



Thanks

