



**DAV POLICE PUBLIC SCHOOL, PANCHKULA**



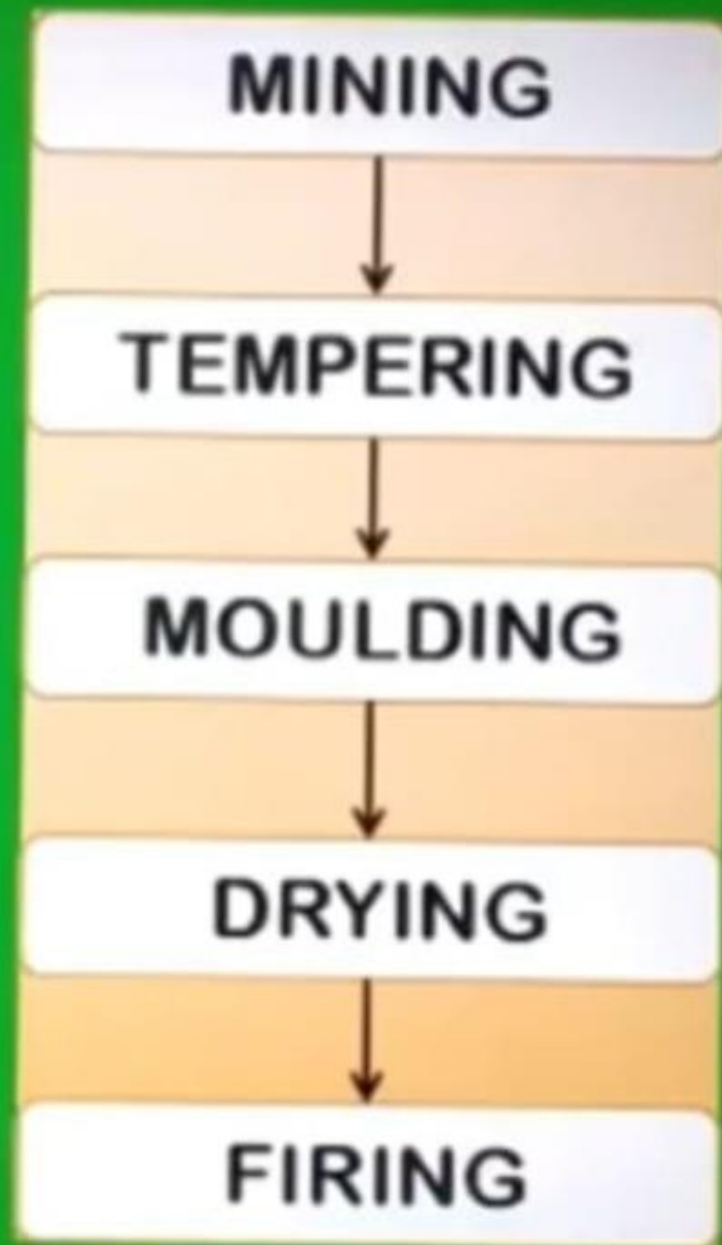
Class – IV

Social Sciences

Chapter – 5

**BRICKS AND BRIDGES - 2**

**LOKHAN WANTED  
TO KNOW HOW  
BRICKS WERE  
MADE.  
ALI EXPLAINED  
THE STEPS  
INVOLVED IN  
MAKING BRICKS**



# BRICK MAKING PROCESS

## 1. MINING

CLAY IS MINED AND STORED IN THE OPEN TO MAKE IT SOFT AND TO REMOVE UNWANTED OXIDES



## 2. TEMPERING

CLAY IS MIXED WITH WATER TO MAKE A DOUGH





**3. A LUMP OF MIXTURE IS TAKEN ROLLED IN SAND AND PUT INTO A METAL MOULD**

**3. MOULDING**



**SAND IS USED SO THAT THE BRICK DOES NOT STICK TO THE MOULD**





**THE MOULD IS EMPTIED ONTO THE DRYING AREA. AFTER EVERY TWO DAYS THE BRICKS ARE TURNED OVER FOR UNIFORM DRYING. THEN THEY ARE READY FOR BAKING.**



**4. DRYING**

**THE BRICKS ARE ARRANGED IN A  
KILN FOR BAKING IT MAKES THE  
BRICKS STRONG**









Lokhan was surprised to know that the reddish-brown bricks were made in a kiln. They were brought to construction site in trucks.

Ali explained that bricks were also made by machines. The use of modern building materials made the buildings strong and safe. Lokhan compared the building with his small hut in the village, which was easily damaged by strong winds. It got flooded every time it rained. His parents had to repair the hut regularly!

Ali took his son to meet the manager of the construction site. Lokhan was happy to see the manager's son Ayaan. The manager told his son that Ali and Lokhan lived on the other side of river. Lokhan told Ayaan that they had to cross a bamboo bridge. Ayaan had seen many types of bridges but had never crossed a bamboo bridge!

# MACHINE MADE BRICKS





The development in science and technology has made it possible to construct strong bridges across water bodies, mountains, valleys, etc. They help in the easy movement of people, goods and vehicles. Ayaan showed Lokhan the pictures of some bridges in India.

### Do You Know?



The early bridges were made by nature like a fallen tree on a river, stream and pond.



# BRIDGES FOR EASY MOVEMENT ACROSS WATER BODIES





# BRIDGES HELP IN THE EASY MOVEMENT OF PEOPLE, GOODS AND VEHICLES



# TYPES OF BRIDGES

**1. SUSPENSION BRIDGE—IT CAN COVER LONG DISTANCE.**





**THEY WERE EARLIER MADE OF  
WOOD AND ROPES. BUT NOW THEY  
ARE MADE OF STEEL**

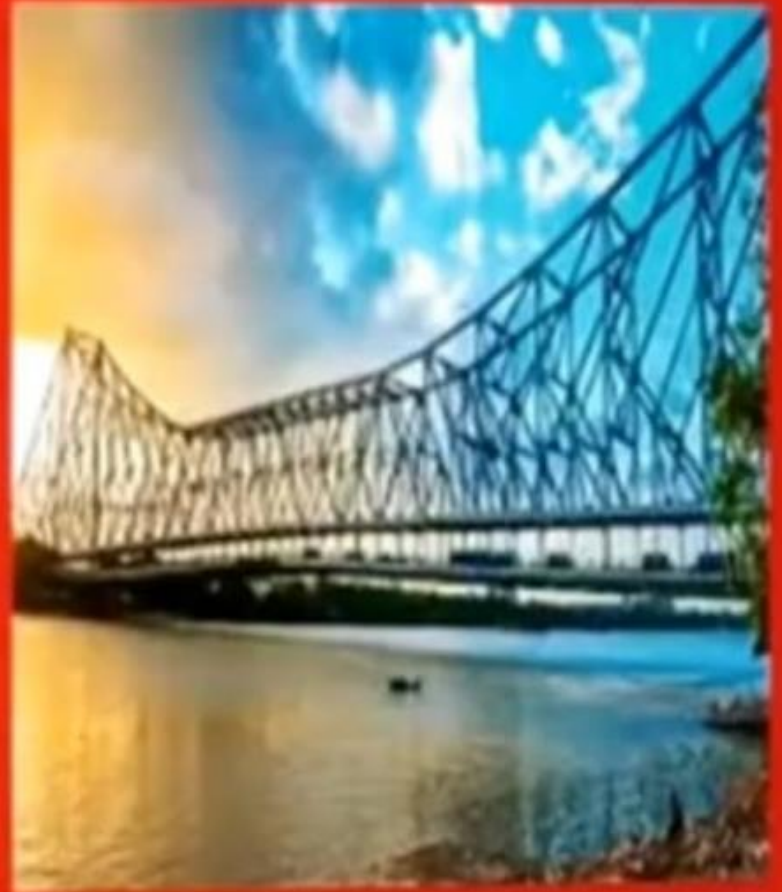
**LAKSHMAN  
JHULA ON  
RIVER GANGA  
IN RISHIKESH  
UTTRAKHAND**



**SUSPENSION  
BRIDGE**



## **2. CANTILEVER BRIDGE—THEY SUPPORT THE LOAD THROUGH DIAGONAL BRACING**





### **3. CABLE STAYED BRIDGE—IT USES SHORT CABLES THAT ARE ATTACHED TO PILLARS**



**IT OFTEN USES TRUSS (TIE UP)  
FORMATIONS BOTH BELOW AND  
ABOVE THE BRIDGE**

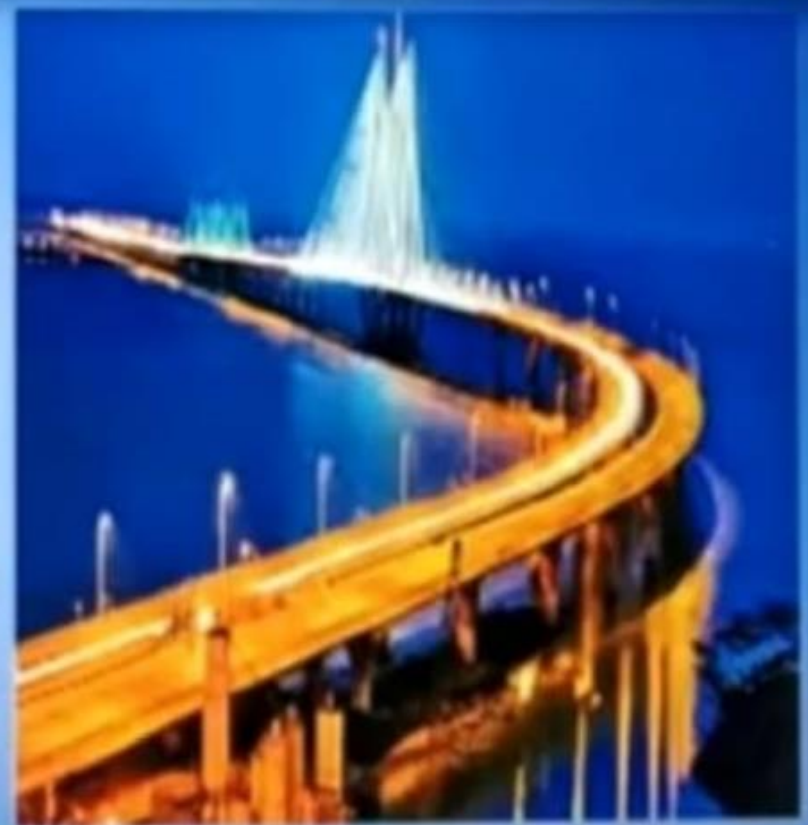


**HOWRAH BRIDGE ON RIVER  
HOGLI IN KOLKATA  
(WEST BENGAL)**





# BANDRA SEA LINK BRIDGE IN THE ARABIAN SEA, MUMBAI MAHARASHTRA



# OTHER TYPES OF BRIDGES

## (A) TRUSS BRIDGE

**RAJMUNDRY RAILWAY BRIDGE  
ON RIVER GODAVARI ANDHRA PRADESH**





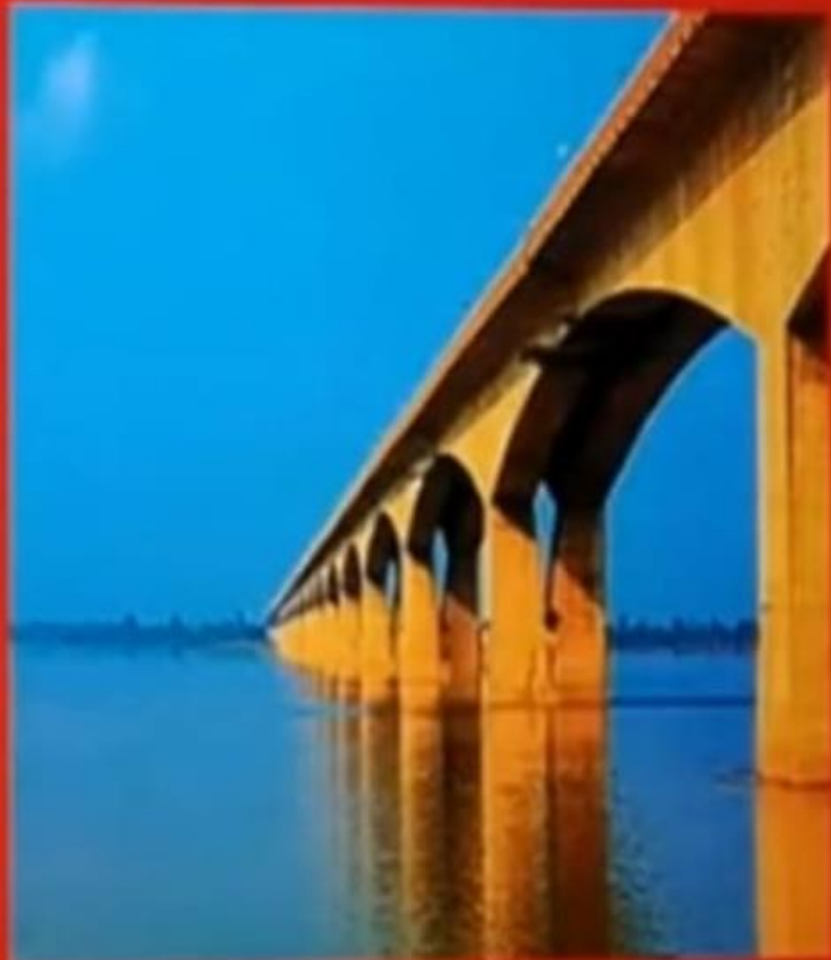
# SOME OTHER TYPES OF BRIDGES

## (B) GOLDEN BRIDGE IN RAMESHWARAM TAMIL NADU

MOVABLE  
BRIDGE



# (C) BEAM BRIDGE GANDHI SETU IN PATNA





**(D) ARCH BRIDGE**  
**GODAVARI RIVER IN RAJMUNDRY**  
**ANDHRA PRADESH**



**FLYOVERS ARE THE BRIDGES  
BUILT OVER ROADS TO EASE THE  
MOVEMENT OF TRAFFIC**







***Thank You***