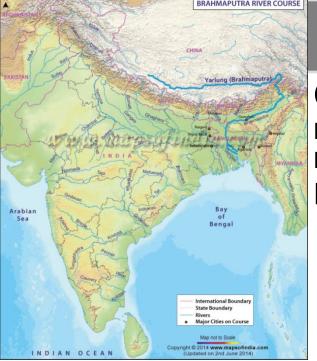
PROJECT 02

BRAHMAPUTRA NOD RIVERFRONT DEVELOPMENT "DREAM PLACE" OF JAINUL ABEDIN

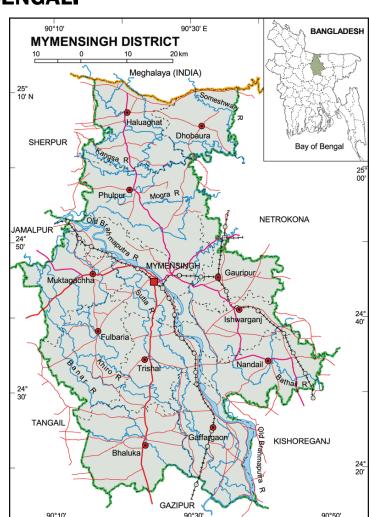


BRAHMAPUTRA NOD

ORIGIN: ANGSI GLACIER, NORTH SIDE OF HIMALAYA. IN BANGLADESH, BRAHMAPUTRA IS JOINED BY TEESTA RIVER.

DISCHARGE: BAY OF BENGAL.

- •BRAHMAPUTRA, MAJOR SOURCE OF TRANSPORTATION, COMMUNICATION, ACTIVITY, LIFE AND LIVING.
- •ABOUT 150YRS AGO, AS A RESULT OF EARTHQUAKE MYMENSINGH SADAR TOOK ITS PRESENT FORM.
- Brahmaputra Nod -Lifeline of Mymensingh Sadar as The town grew up centering the river.



JAINUL ABEDIN: OUR INSPIRATION

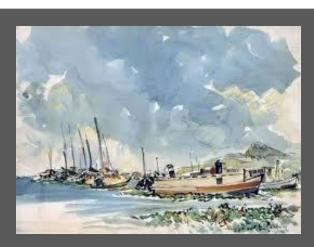
IN JAINUL ABEDIN'S CANVAS WE OBSERVE 3 PLANES.

- **-LAND IN THE FOREGROUND**
- **•RIVER IN THE MIDDLE**
- HORIZON RECEDING INTO DISTANCE



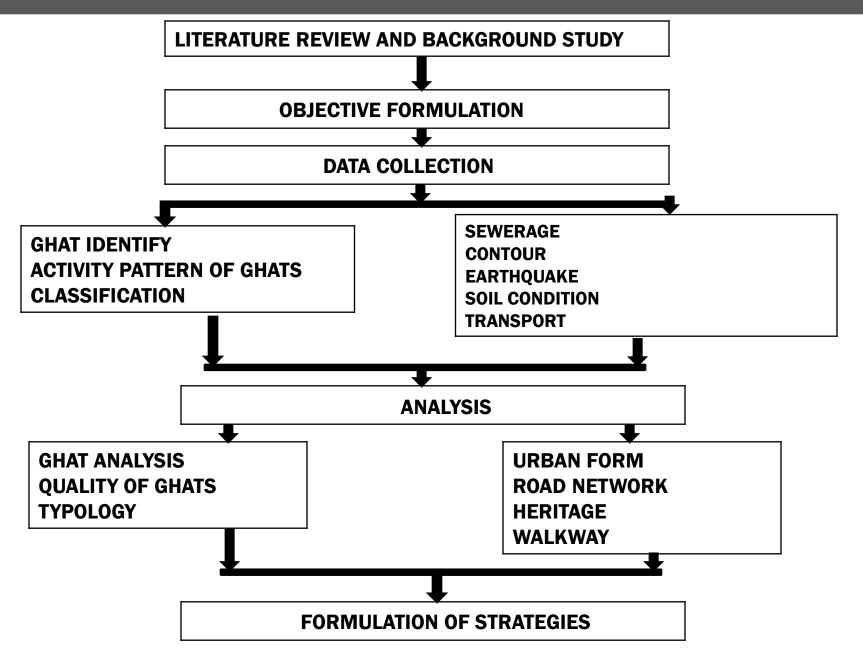






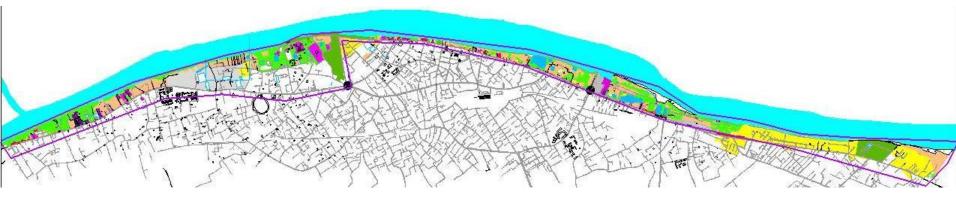


METHODOLOGY



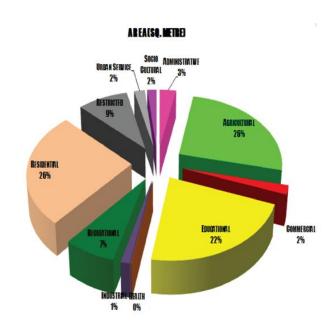
SITE

LOCATION: Mymensingh Sadar, Mymensingh LENGTH OF RIVERFRONT: 11.5KM AREA UNDER CONSIDERATION: 2.1937SQ.KM WIDTH: 184M-336M(approx)





ZONE	AREA(SQ. METRE)
Administrative	65117
Agricultural	566314
Commercial	44660
Educational	479459
Health	2389
Industrial	26233
Recreational	153065
Residential	579558
Restricted	198733
Urban Service	42261
Socio Cultural	35958
Total Area under consideration:	2193747

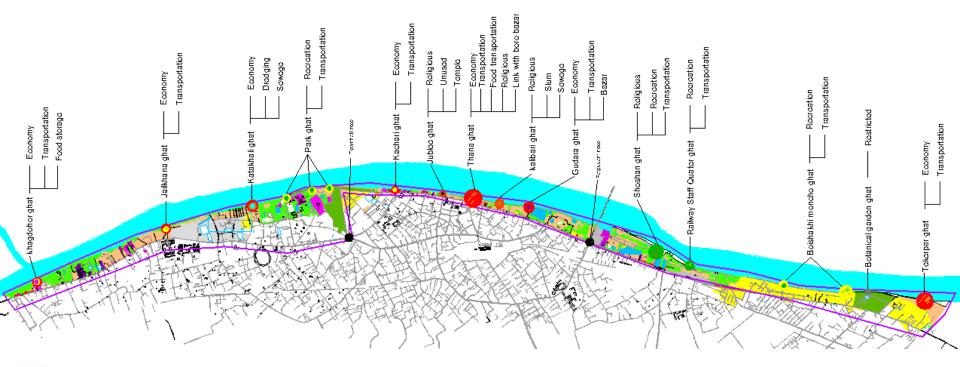


LANDUSE

GHAT IDENTIFY & ACTIVITY PATTERN

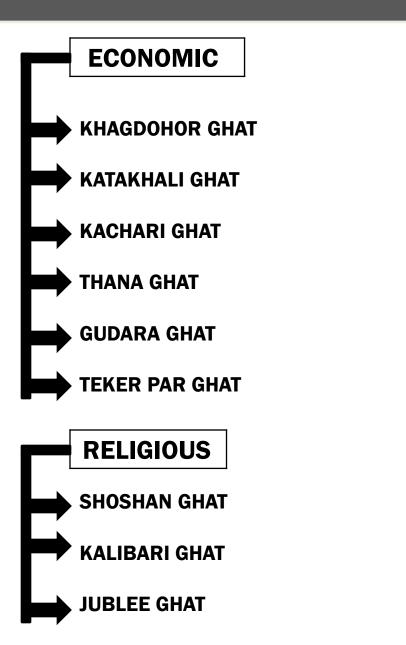
"GHAT" A CONNECTING POINT BETWEEN A LANDMASS AND A WATER BODY.
WE CAN CLASSIFY GHAT AS FOLLOWS BASED ON THEIR USE:

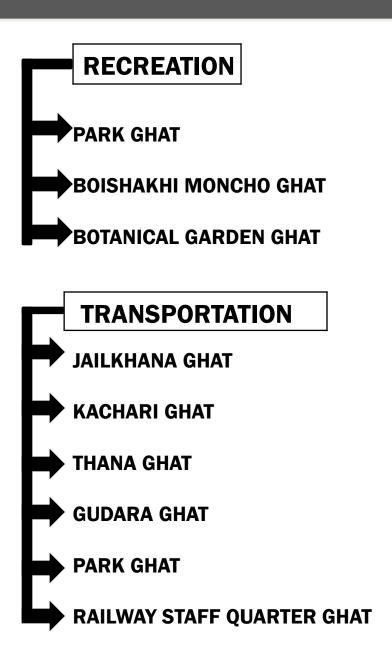
- RELIGIOUS GHAT
- CREMATORY GHAT
- •GHAT USED FOR CLEANING

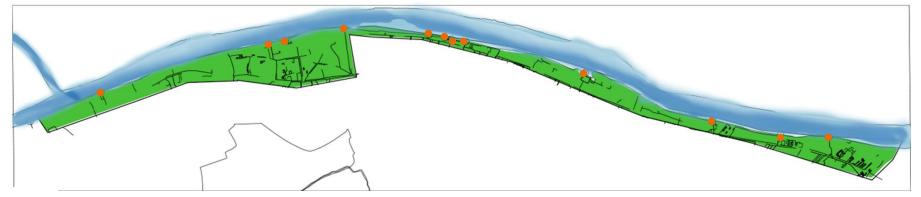




CLASSIFICATION OF GHATS







SEWERAGE OUTLET



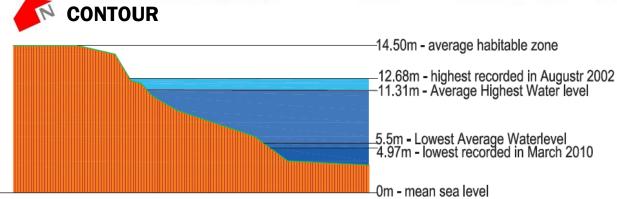


IMAGE: WATERLEVEL AT DIFFERENT TIMES OF THE YEAR [BASED ON DATA RECORD FROM THE YEAR 2004 TO 2013]

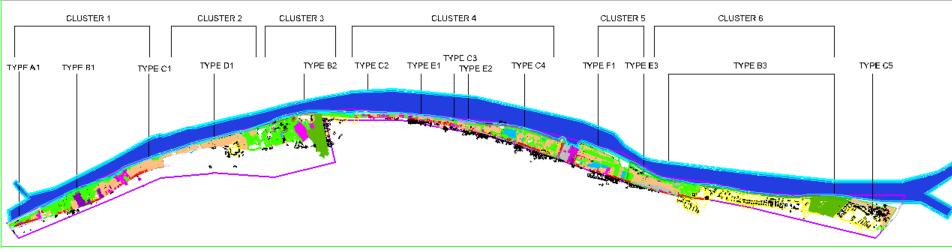
KEY ISSUES	MAJOR OBJECTIVES
INCOMPITABLE LAND USES	REVITALIZATION OF RIVER
ENCROACHMENT	REHABILITATION OF SLUM DWELLERS
UNDER UTILIZATION OF OPEN SPACE	FACILITATE ECONOMIC DEVELOPMENT AND SOCIAL INTEGRATION

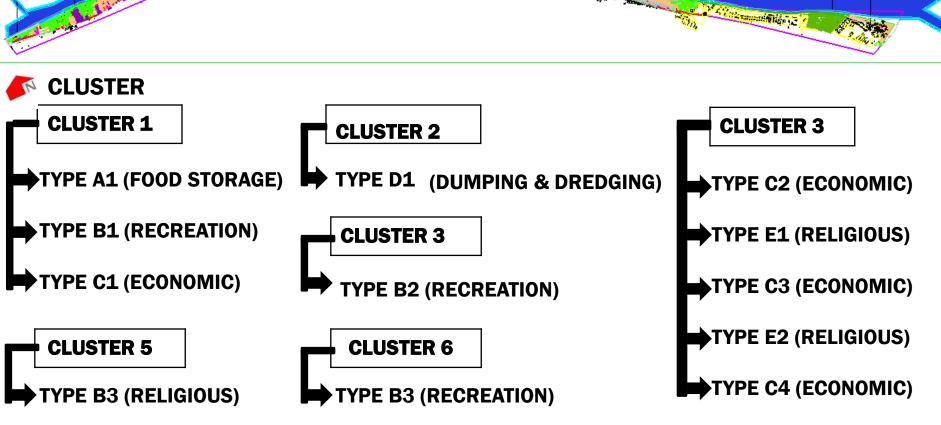
INACCESSIBILITY CONNECTING RIVERFRONT WITH CITY BY WALKWAYS

CREATE CITY LEVEL RECREATIONAL AND SLUMS GREEN SPACES

HERITAGE AND NATURAL VISTAS SEWEGAE AND WATER TREATMENT PLANT

TYPOLOGY & CLUSTER





TYPE-A1: FOOD STORAGE

BOUNDARY: BGB CAMP TO TCB OFFICE.

LENGTH:442.9M

AREA:7537 SQ. M

WALKTIME:8.058MINUTES

INFRASTRUCTURE: BGB CAMP, TCBOFFICE,

CENTRAL FOOD DEPOSITORY.

TYPE-B1: RECREATION

BOUNDARY: AGRI DEV. BOARD TO WATER.DEV.BOARD

LENGTH:1069M

AREA:33194 SQ. M.

WALKTIME:21.38MINUTES

INFRASTRUCTURE: AGRI DEV.BOARD, WATER

DEV BOARD, SILVER CASTLE, RIVE PALACE.

TYPE-C1: ECONOMY

BOUNDARY: WATER DEV BOARD TO POLICE LINES

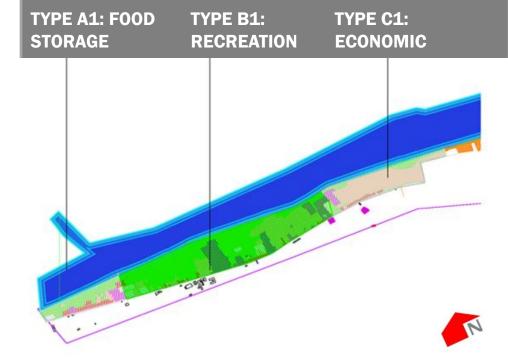
SCHOOL

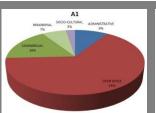
LENGTH:1184M

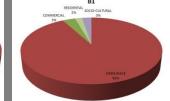
AREA:12793 SO. M

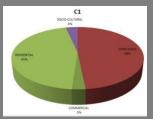
WALKTIME: 13.68 MINUTES

INFRASTRUCTURE: WATER DEV BOARD, POLICELINE









TYPE A1: FOOD STORAGE

TYPE B1:
RECREATION

TYPE C1: ECONOMIC

PROBLEM: A ZONE WITH LOTS OF OPPORTUNITY, BUT IS BEING UNDERUSED.

TYPE-D1: DUMPING

BOUNDARY: POLICE LINES TO POLICE LINES SCHOOL

AND COLLEGE LENGTH:1184M AREA:15385 SO. M

WALKTIME:23.68MINUTES

INFRASTRUCTURE: AGRI DEV. BOARD, WATER DEV.

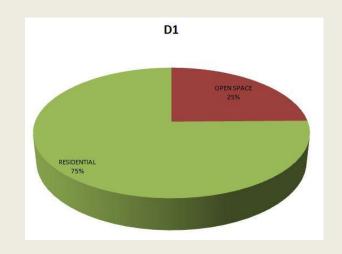
BOARD, SILVER CASTLE, RIVER PALACE

PROBLEMS:

HIGHLY POLLUTED ZONE, USED FOR DUMPING WASTES FORM POLICE LINE AND ALSO UNTREATED SEWER WASTES. BESIDES DREDGING CREATES PITS UNDER WATER WHICH IS FATAL FOR LOCAL PEOPLE. LARGE NUMBER OF SLUM

TYPE D1: DUMPING





TYPE-B2: RECREATION

BOUNDARY: J.A SANGRAHASHALA TO

HIMUR ADDA RESTAURANT

LENGTH:1986M

AREA:29068 SQ. M.

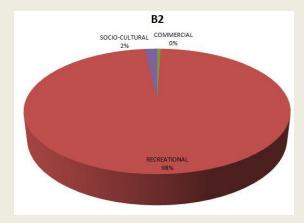
WALKTIME:39.72MINUTES

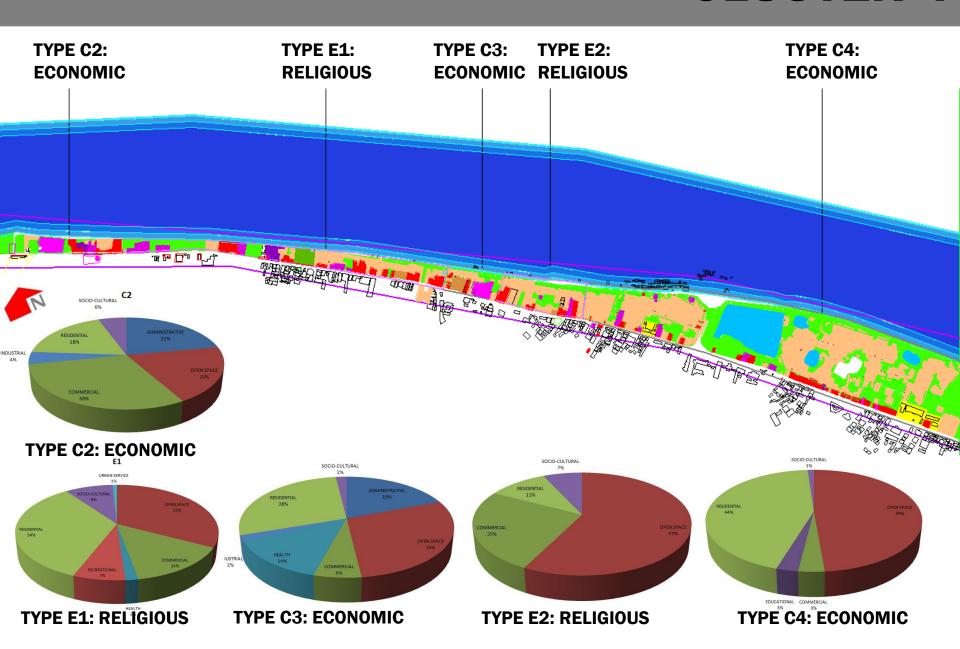
PROBLEMS:

THOUGH MAJOR RECREATIONAL ZONE, INSUFFICIENT WITH RESPECT TO THE NUMBER OF POPULATION. MIGHT BE CONSIDERED UNDERUSED WITH RESPECT TO THE OPPORTUNITY IT OFFERS.

TYPE B2: RECREATION







TYPE-C2: ECONOMY

BOUNDARY: LOCAL SERVER STATION TO MYMENSINGH

0 POINT

LENGTH:268M

AREA:2046 SQ. M

WALKTIME:5.6MINUTES

INFRASTRUCTURE: KACHARI, LOCAL SERVER STATION

TYPE-E1: RECREATION

BOUNDARY: MAZAR TO SHIV TEMPLE

LENGTH:753M

AREA:5883 SQ. M.

WALKTIME:15.06MINUTES

INFRASTRUCTURE: MAZAR, MATH, ASRAM,

TYPE-C3: ECONOMY

BOUNDARY: KOTOALI THANA TO TRAFFIC OFFICE

LENGTH:174

AREA:1712

WALKTIME:3.48

INFRASTRUCTURE: KOTOALI THANA, TRAFFIC OFFICE

POURASAVA MARKET

TYPE-E2: RELIGIOUS

BOUNDARY: TRAFFIC OFFICE TO BORO

KALIBARI

LENGTH:255M

AREA: 3214 SQ. M

WALKTIME: 5.1MINUTES

INFRASTRUCTURE: BORO KALIBARI, LOKNATH

TEMPLE, BISWANATH TEMPLE

TYPE-C4: ECONOMY

BOUNDARY: BORO KALIBARI TO PATGUDAM NODE

LENGTH: 1080M

AREA:33272 SQ. M.

WALKTIME:21.60MINUTES

INFRASTRUCTURE: HAJI HASHEM ALI COLLEGE,

BAHAI SCHOOL AND LIBRARY, SURYAKANTA

MALARIA RESEARCH INSTITUTE

PROBLEMS:

- **COMMUNICATION WITH CHAR, BUT NOT SUFFICIENTLY DEVELOPED AS TRANSPORTATION POINT.**
- ■THE RELIGIOUSLY IMPORTANT GHATS ARE LOSING THEIR IDENTITY DUE TO ILLEGAL ENCROACHMENT.
- **•SLUMS ON THE DAM ARE CAUSING THREAT THAT MIGHT POLLUTE** THE RIVER.
- **A ZONE OF CONFLICTION-SAND TRANSPORTATION AND FOOD TRANSPORTATION**
- •RELIGIOUSLY AND HISTORICALLY IMPORTANT GHATS WHICH HAS SLUMS

TYPE-E3: RELIGIOUS

BOUNDARY: SHOSHAN - RAILWWAY BRIDGE

LENGTH:389M

AREA:7537 8066SQ. M WALKTIME:7.78MINUTES

INFRASTRUCTURE: CREMATORY, EIDGAH, RAIL BRIDGE

TYPE-B3: RECREATION

BOUNDARY: RAILWAY STAFF QUARTER TO BOTANICAL GARDEN

LENGTH:2474M

AREA:30947SQ. M.

WALKTIME:49.48MINUTES

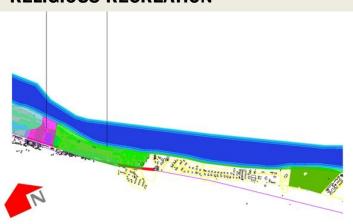
INFRASTRUCTURE: BAU, BOTANICAL GARDEN, RAILWAY STAFF

QUARTER.

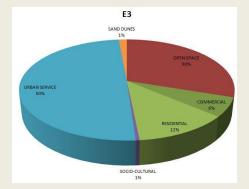
PROBLEMS:

A ZONE WITH LOTS OF OPPORTUNITY, BUT IS BEING UNDERUSED.

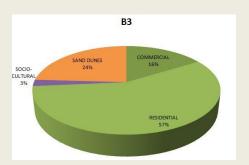
TYPE E3: TYPE B3: RELIGIOUS RECREATION



TYPE E3: RELIGIOUS

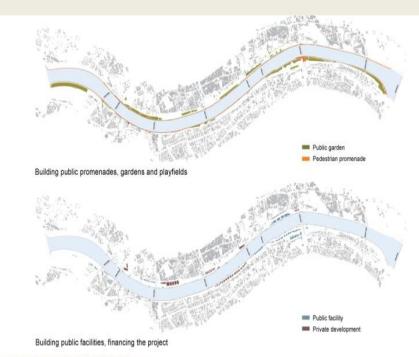


TYPE B3: RECREATION



CASE STUDY 1 SABARMATI RIVERFRONT DEVELOPMENT PROJECT

- AHMEDABAD, 1997 ONGOING
- APPROXIMATELY 200 HECTARES OF LAND FROM THE **RIVERBED**
- RETAINING WALLS HAVE BEEN BUILT
- SEWAGE INTERCEPTOR LINES WITH NEW PUMPING STATIONS HAVE BEEN CONSTRUCTED
- SLUM DWELLERS WILL BE RELOCATED WITH 'PUCCA' HOUSING
- 11.5 KM LONG PEDESTRIAN ALONG THE RIVER SIDE
- PUBLIC FACILITIES TO BE BUILT: CULTURAL CENTERS. **MUSEUMS, SPORTS FACILITIES, TRADE FAIR GROUNDS** AND OPEN AIR MARKETS
- -A SMALL PORTION OF THE RECLAIMED LAND WILL BE SOLD FOR COMMERCIAL DEVELOPMENT



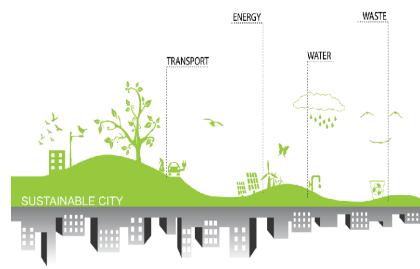


CASE STUDY 2

TRANS GANGA RIVERFRONT DEVELOPMENT

- -SPREAD ACROSS 1156 ACRES,
- -SUSTAINABLE CITY DESIGN WITH TWO LEVELS
 - -FIRSTLY AT THE DESIGN LEVEL ELEMENTS REQUIRED TO MAKE A CITY SUS TAINABLE HAVE BEEN GRAFTED IN THE MASTER PLAN
 - -SECONDARY AT THE IMPLEMENTATION STAGE GREEN ROOF, EARTH COOLING, SOLAR PANELS, GROUND WATER RECHARGE, WASTE MANAGEMENT HAVE BEEN PROPOSED

LAND USE: COMMERCIAL, INDUSTRIAL, MIXED USE, RESIDENTIAL AND PUBLIC AMENITIES.





CASE STUDY 3

BRAHMAPUTRA RIVERFRONT DEVELOPMENT

GUWAHATI, ASSAM (ONGOING)

LENGTH: 20 KM

- PLAN OF THE FIRST PHASE IS OVER A 7KM LENGTH

-CONTINUITY AND ACCESS ALONG THE RIVER

-LINKAGES FROM THE CITY TO THE RIVERFRONT

-RESTRUCTURING LAND USE,

-DEVELOPMENT OF CULTURAL PRECINCT

-REVITALISATION OF THE RIVER ECOLOGY, RIVERSIDE PROMENADE, GHATS, PLAZAS AND PARKS, ART GALLERY, CONSERVATORY, CONFERENCE FACILITIES AND YOUTH CENTRE, LOCAL PRODUCE MARKETS, LIGHTING, STREET FURNITURE & PUBLIC ART, HERITAGE MANAGEMENT & CONSERVATION



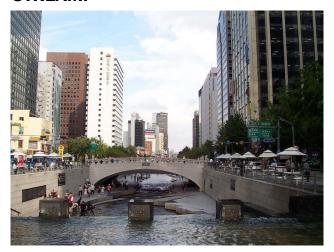


CASE STUDY 4

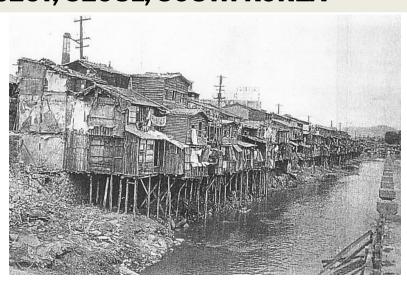
THE CHEONGGYECHEON RIVER RESTORATION PROJECT, SEOUL, SOUTH KOREA

- -OPENED TO THE PUBLIC IN SEPTEMBER 2005
- -CREATING THE ENVIRONMENT WITH CLEAN WATER AND NATURAL HABITATS WAS THE MOST SIGNIFICANT ACHIEVEMENT OF THE PROJECT.
- -BUSINESS AND INDUSTRIAL AREA CENTERED ON THE STREAM.
- -THE PROJECT RESULTED IN A SPEEDING-UP IN TRAFFIC AROUND THE CITY WHEN THE MOTORWAY WAS REMOVED.











LEARNING FROM CASE STUDY

RIVERFRONT QUALITIES TO CREATE GREAT WATERFRONTS

- ACCESS LINKAGE
 - **EDGE USES**
 - ATRACTION AND DESTINATIONS
 - **IDENTITY AND IMAGE**
- **AMENITIES**
- **WATER USES**
- **FLEXIBILITY IN DESIGN**
- **SEASONAL STRATEGY**
- - LANDUSE MANAGEMENT **DIVERSE FUNDING SOURCES**

- SUPPORT MULTIPLE MODES OF
- **OPTIMIZE PUBLIC ACCESS**

TRANSPORTATION

EACH DESTINATION

MULTIPLE FUNCTIONS

OBJECTIVES

- **CREATE MULTIPLE DESTINATIONS CONNECT THE DESTINATIONS ENCOURAGE 24HR ACTIVITY**

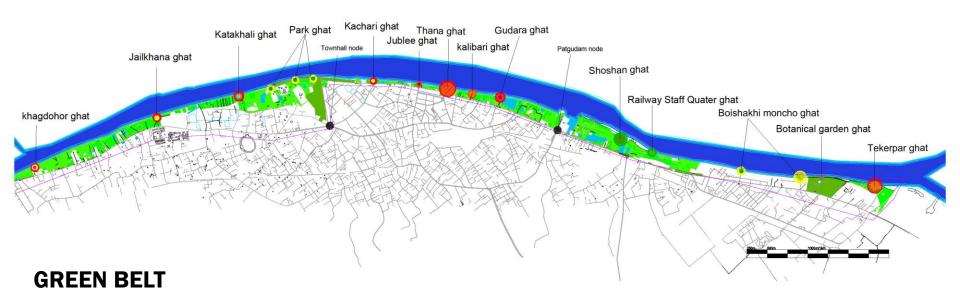
INTEGRATE SEASONAL ACTIVITIES INTO

MAKE ICONIC BUILDINGS SERVE, AS

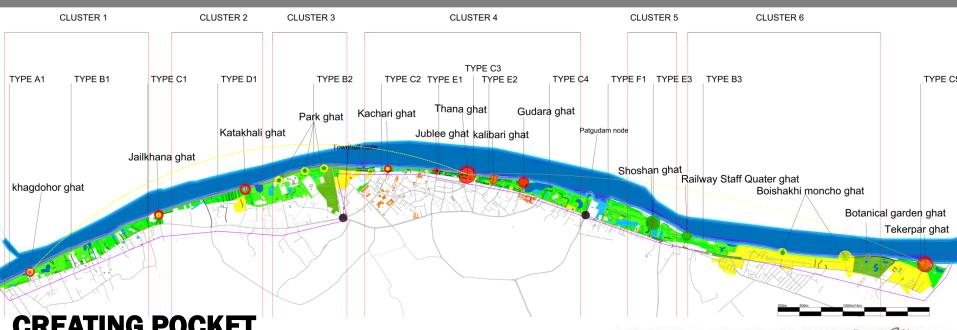
USE PARKS TO CONNECT DESTINATIONS

MAKE PUBLIC GOALS AS PRIMARY

PROPOSAL (RIVER FRONT)



PROPOSAL (MASTER PLAN)



CREATING POCKET

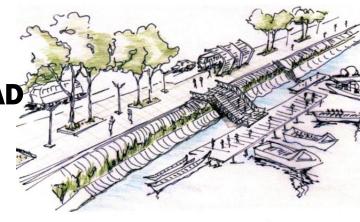
- FOR PROPER DRAINAGE OF FLOOD WATER
- FOR CONNECTING RIVER WATER CLOSE TO ROAD

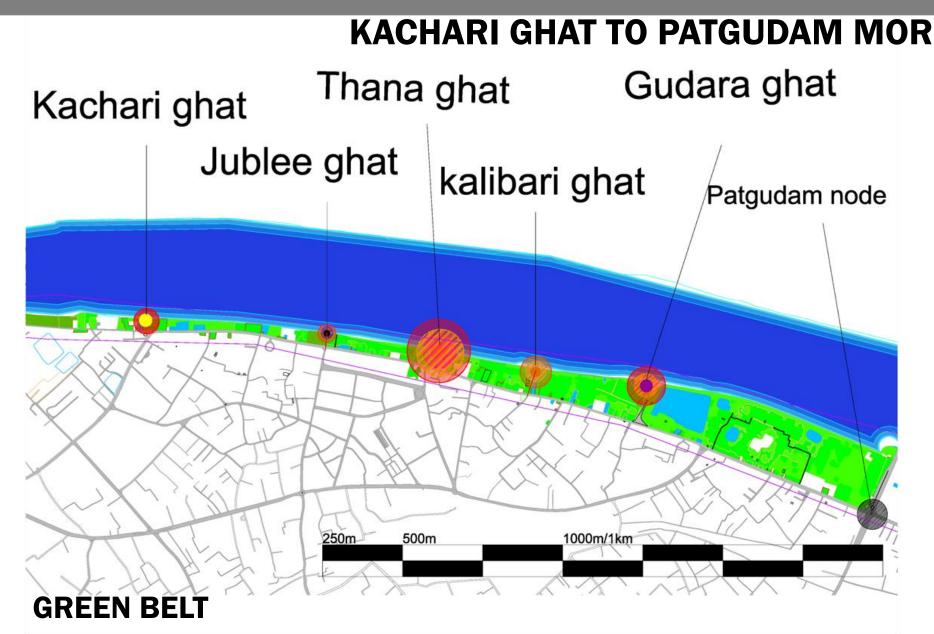
CONNECTING THE GHATS DIRECTLY WITH ROAD

- CREATING VISTA
- MAKING DIRECT LINK WITH THE HERITAGE
- CONNECTING MAJOR INFRASTRUCTURE WITH THE RIVER
- SKYLINE

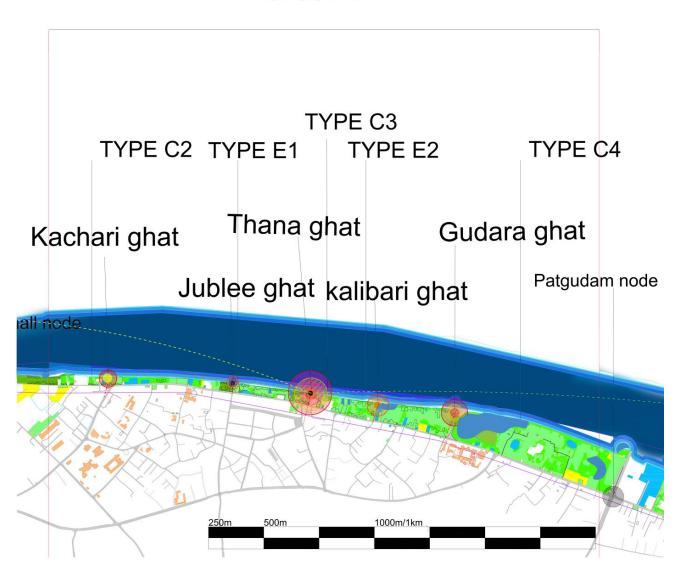
CONNECTING THE WHOLE RIVERFRONT VIA

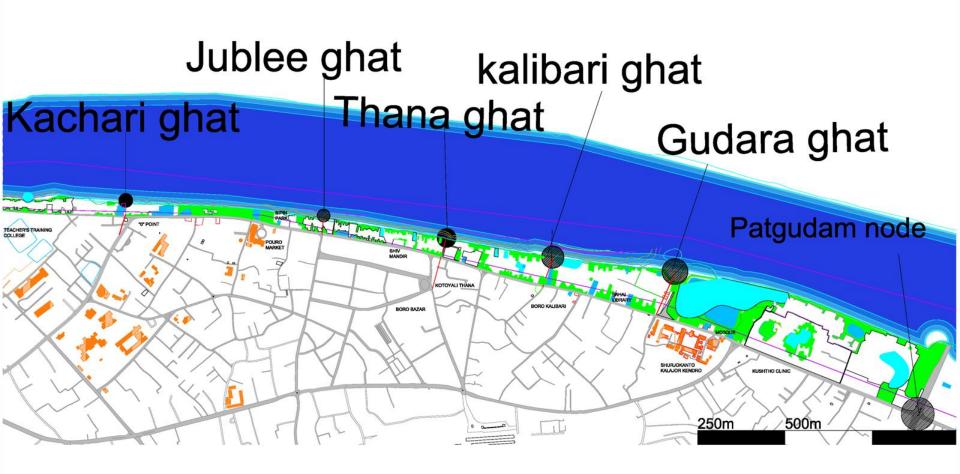
- A PEDESTRIAN WALKROUTE
- -BI-CYCLE ROUTE
- WATER TAXI ROUTE





CLUSTER 4





URBAN SOLID - VOID RELATION







