

HUBLI DHARWAD BRTS COMPANY LIMITED

Project Details Asia BRTS Conference

29th Sept to 1st Oct 2014



PROJECT LOCATION

Twin cities separated by about 20 km.

Single Municipal area: 202 Sq.km

Population: 0.94 million(2011)

Density: 4678 persons per sq.km.

Hubli: Commercial centre and business hub of the region.

Dharwad: Administrative seat of District and Educational hub of the region.

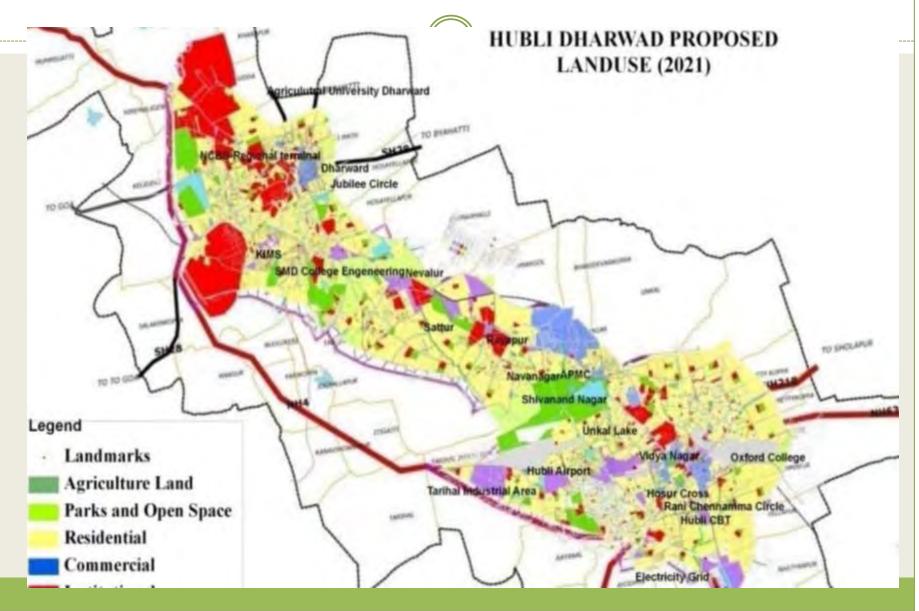
Hubli-Dharwad the 2nd largest urban agglomeration.

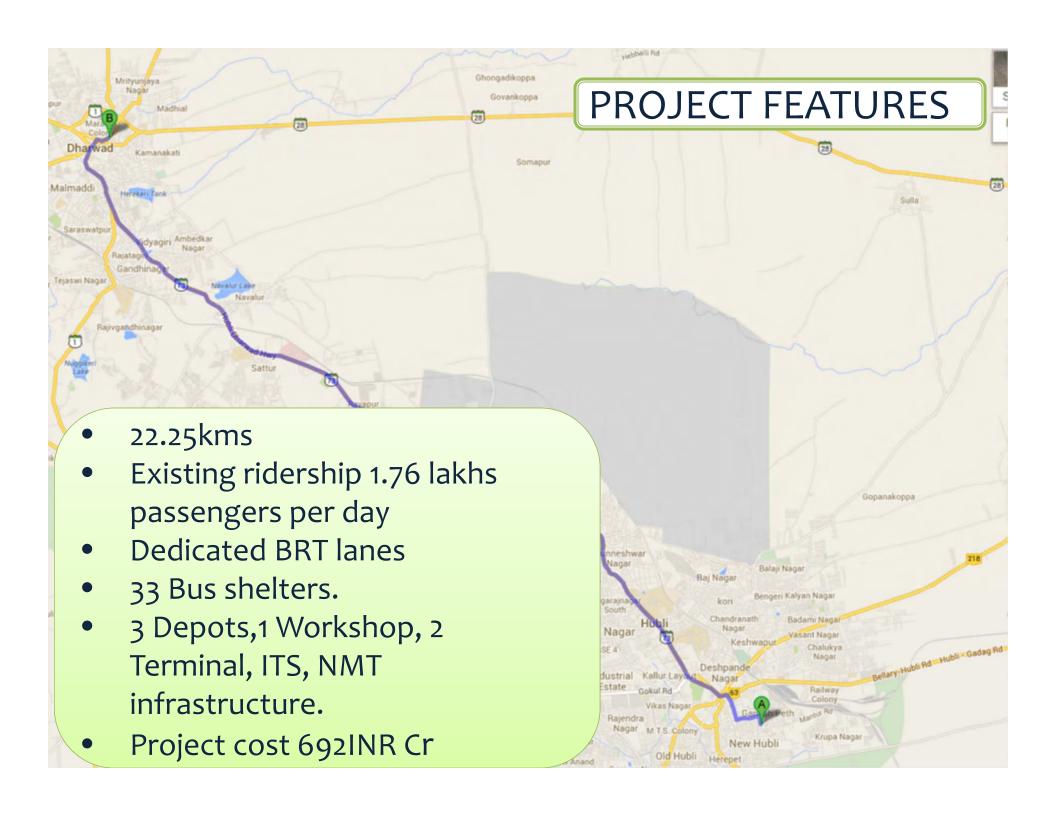


INDIA

KARNATAKA

GROWTH DIRECTION: ALONG THE CORRIDOR BETWEEN THE TWO CITIES





PROJECT PARTNERS



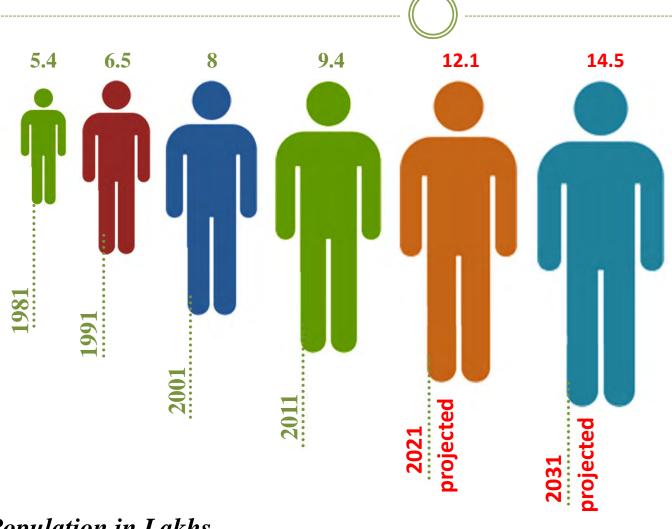




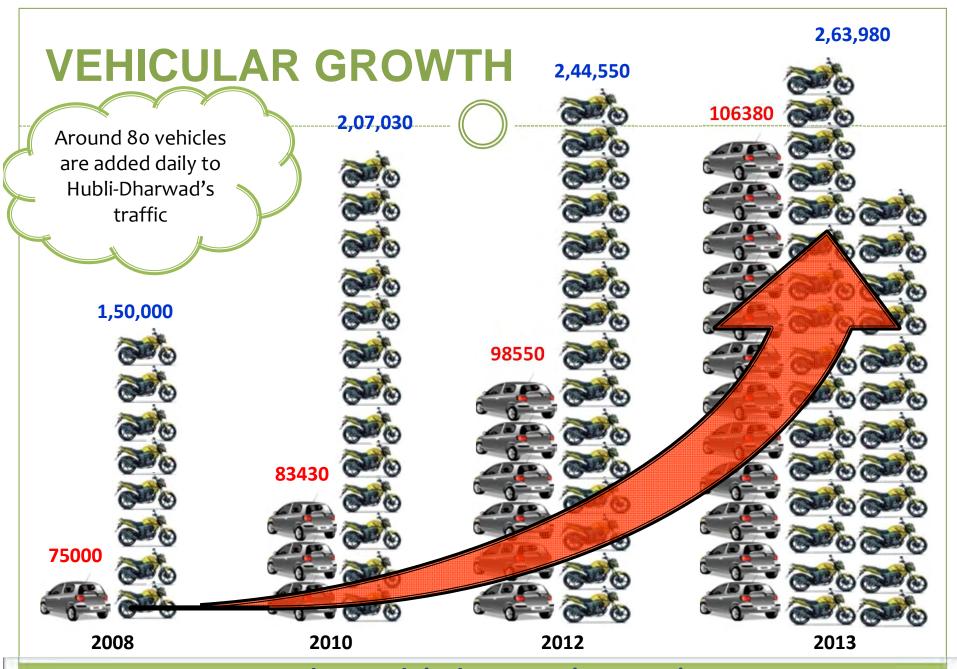


- Implemented by Hubli-Dharwad BRTS Company Ltd
- Acquisition of Land and Development of BRTS corridor by KRDCL
- Key Partners
 - NWKRTC (Bus Operator)
 - HDMC (Municipal Corporation)
 - HDUDA (Urban Development Authority)
- Guidance and Support from DULT, MOUD, GOK, & World Bank

POPULATION GROWTH IN HUBLI-DHARWAD



Population in Lakhs



Yearly Vehicle Registration

More
Vehicle and
More
Congestion

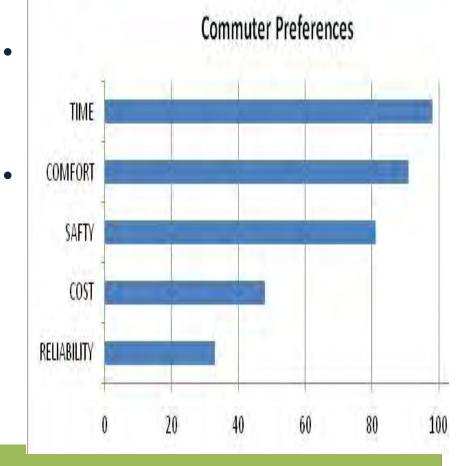


PUBLIC TRANSPORT USAGE

PT operator: North Western Karnataka Road Transport Corporation (NWKRTC), a state government undertaking.

Numbers	Description		
2.15 lakh	daily bus passengers		
279	city buses operated		
62%	intercity commuters		
5270 INR	average earnings per bus		
92%	fleet utilization		
1.75 lakh	corridor passengers		
1 minute	corridor NWKRTC frequencies		
>6,000	corridor peak hour peak direction passengers		
30%	Overall PT mode share for the twin cities		

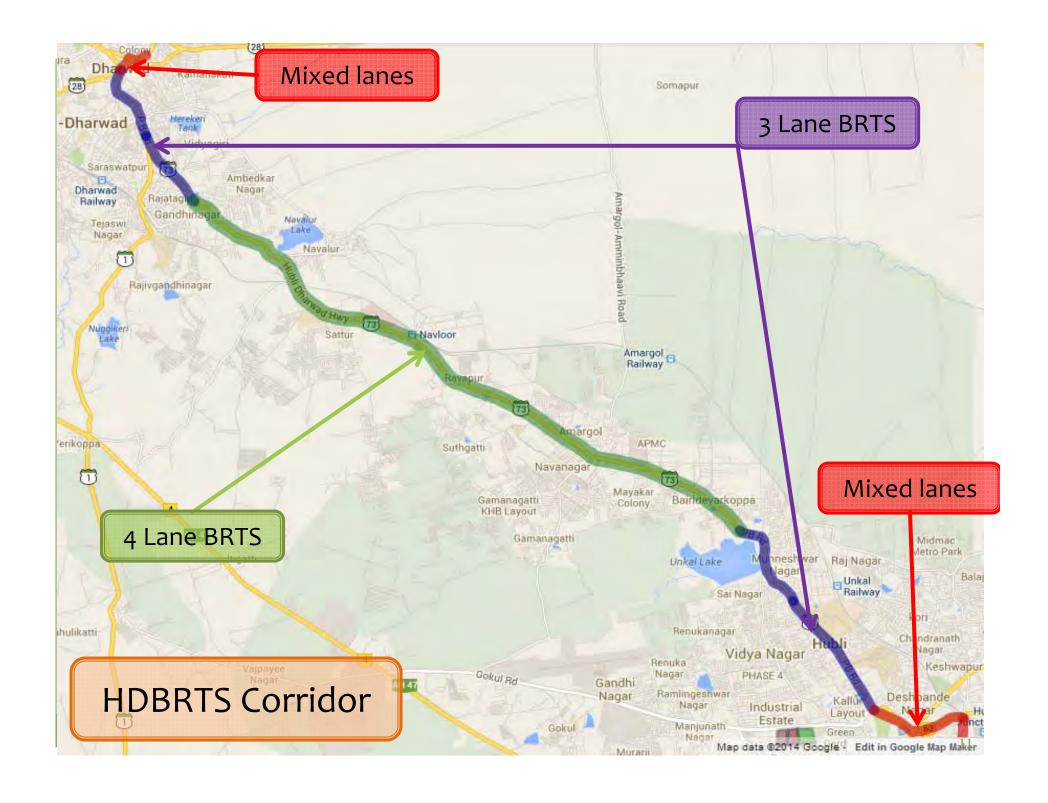
Buses with 7% vehicle share carry around 70% of the people on PB

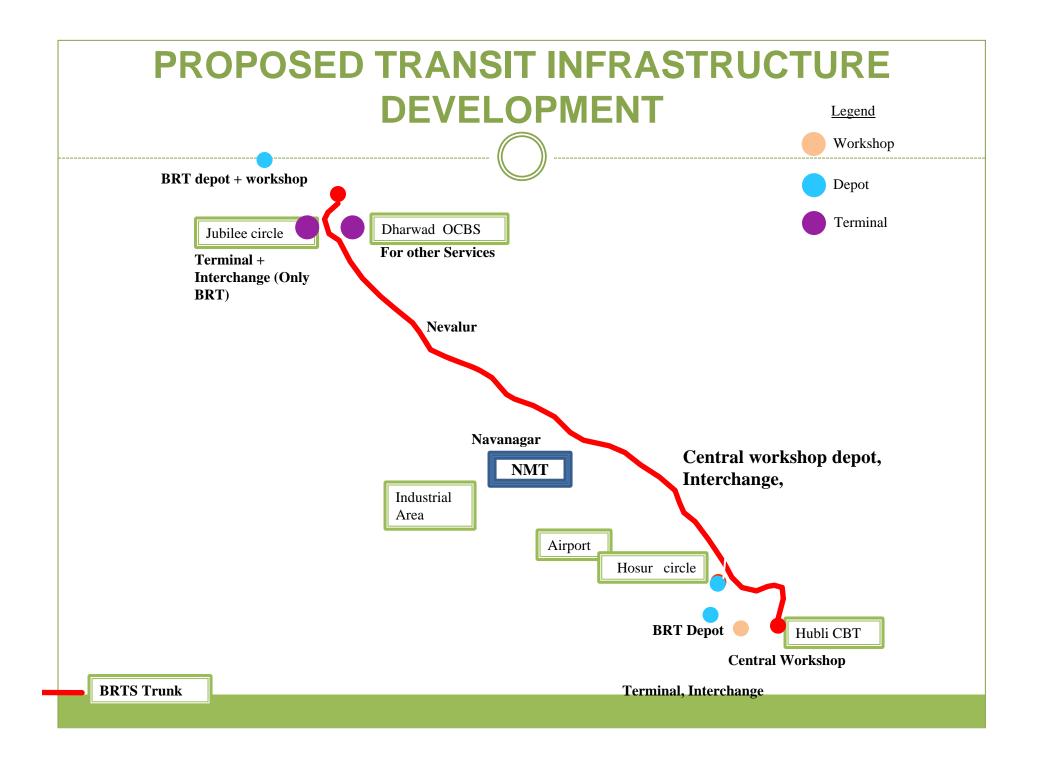


BRTS PROJECT - RIGHT ON TIME



- State Govt. sanctioned proposal for
 2 LANE TO 4 LANE WIDENING of
 Hubli -Dharwad highway in 2009.
- Mobility Plan recommended BRTS
- SUSTAINABLE URBAN TRANSPORT PROJECT (SUTP) INTIATED BY GOVT OF INDIA – Funding available for improvements to public transport.





BRT FEATURES

Designed for ~12000 PHPDT





Bus fleet – 12m, 900 mm standard buses and Articulated buses.



Level boarding &

alighting

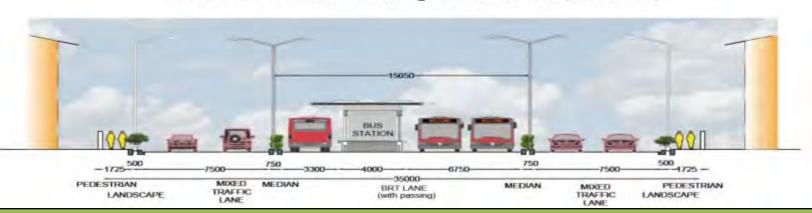
ITS for BRTS and ATCS for traffic management along the corridor.

PROJECT CORRIDOR - 35M SECTION

Width	Distance	From	То
35 m	4.2 km	Hosur Cross, Hubli	Naveen Hotel, Hubli
35 m	2.9 km	Gandhinagar Cross, Dharwad	Jubilee Circle, Hubli

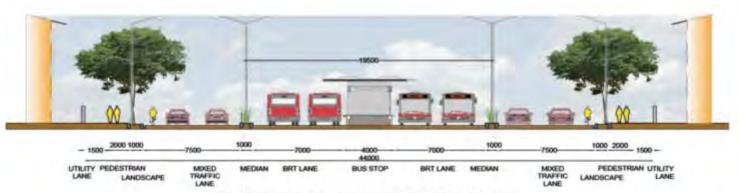


TYPICAL CROSS SECTIONS FOR 35m ROW @ MID-BLOCK LOCATION (WITH PASSING)

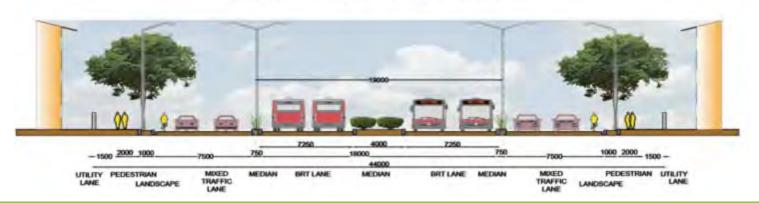


PROJECT CORRIDOR - 44M SECTION

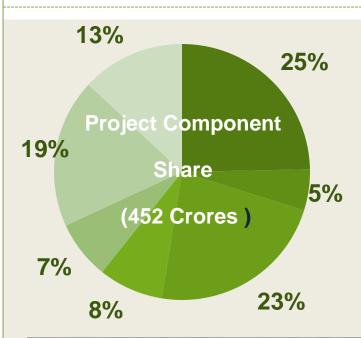


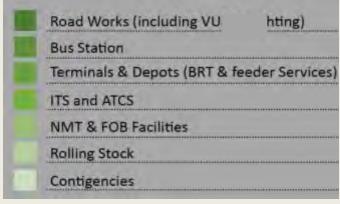


TYPICAL CROSS SECTIONS FOR 44.0m ROW @ BUS STOP LOCATION



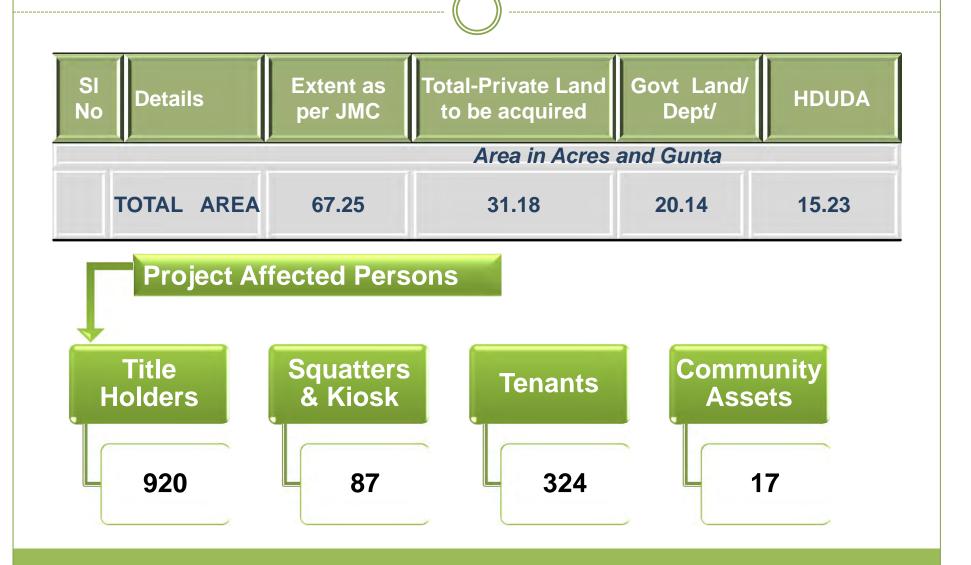
PROJECT FUNDING





- Estimated cost of project 692
 Crores INR
- Funded under the Sustainable Urban Transport Project (SUTP)
- Support from World Bank and GEF
- World Bank funding USD 55 million

DETAILS OF LAND ACQUISTION



PRICE NEGOTIATION MEETINGS OF HUBLI CITY DATE: 14.07.2014









COMMUNITY ASSETS SHIFTED



Place of within COI

Hanuman Temple at FCI

Bhairidevarakoppa

Shifted Place





Ganapati Temple

Bhairidevarakoppa

Place of within COI

Dismantling partially affected part



Income Generation Activities Training

On: 06.08.2014, at: RUDSET Training Institute, Dharwad



Free Health Checkup Camp

On: 17.07.2014, at: SDM Medical College









BRTS BUS SHELTER

Model Image of BRT Bus Stand

Fixing of Barricade under progress.

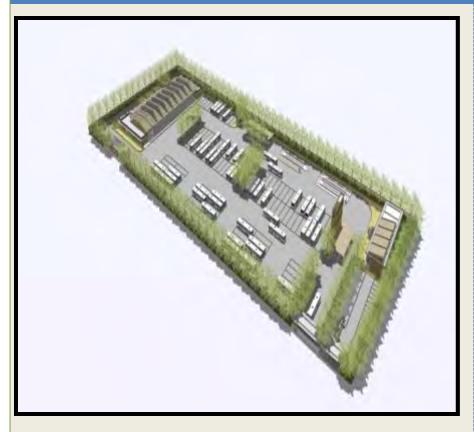




BRT DEPOT AT HUBLI

Model Image of BRT Depot Hubli

Work Under progress





DIVISIONAL WORKSHOP AT HUBLI

Model Image of Divisional Workshop

Work is under progress

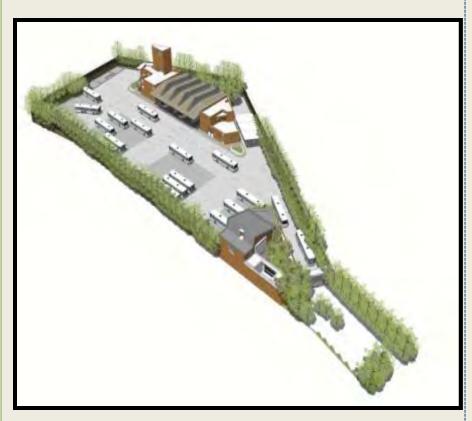




BRTS DEPOT AT DHARWAD

Model Image of BRTS Depot at Dharwad

Footing works under progress





OCBS (PW - 9)



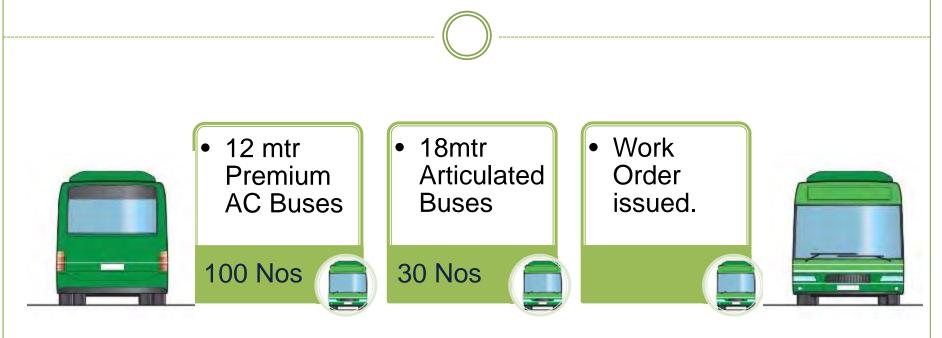
Site clearance under progress



Model Image of OCBS



PROCUREMENT OF BUSES FOR BRTS





2. Design of Plaza - ಸಾರ್ವ ಜನಕ ಅಂಗಳ



3. Design of Temple & Pond - ಅಮರ್ಗೊಳ ದೇವಾಲಯ ಮತ್ತು ಕೆರೆ



Proposed View of Temple and Amargol Pond



3. Design of Temple & Pond - ಅಮರ್ಗೊಳ ದೇವಾಲಯ ಮತ್ತು ಕೆರೆ





PROJECT CHALLENGES



COMPETING PRIORITIES OF THE STATE GOVERNMENT OVER PUBLIC TRANSPORT AND ALLOCATION OF FUNDS FOR THE PROJECT

- Presentations to key decision makers
- Visits to Janmarg, Ahmadabad by political leaders
- Sourcing funds through value capture, stakeholder contributions, JNNURM etc.

WIDENING PROJECT / MULTI-AGENCY CO-ORDINATION

- Onsite consultant team
- Weekly Coordination meeting with KRDCL
- Technical issues solved by Technical Advisory Committee, KRDCL
- Service level agreement between SPV and KRDCL

PROJECT CHALLENGES

INSTITUTIONAL ARRANGEMENTS

- Special purpose vehicle created for implementing the project:
 Hubli-Dharwad BRTS Company Limited
- Key Stakeholders represented on the Board of Directors
 - **OHDMC** Local Body
 - HDUDA Urban Development Authority
 - ONWKRTC PT Operator
 - KRDCL (4- laning project)
 - Traffic Police Dept
 - **OPWD**
- BRT bus operations by NWKRTC.

Service level agreement between NWKRTC and SPV

PROJECT CHALLENGES

LAND ACQUISITION

RoW

RoW in City built up area 35m RoW in undeveloped areas 44m

- Consent Award
- RAP, Grievance Redresal, Public consultations, FGD, Public Outreach
- **ENVIRONMENTAL IMPACT EMP and GREEN BRTS Programme**
- **INTEGRATED TICKETING TRUNK and FEEDER Exploring options**
- □ CHANGING BEHAVIOUR AND ATTITUDE TOWARDS PUBLIC

TRANSPORT - Communication and Outreach strategy for promoting public transport and NMT

COMPREHENSIVE DEVELOPMENT OF THE CITY TRANSPORT INFRASTRUCTURE

TRANSIT
INFRSTRUCTURE HIGH QUALITY BUSES
DEVELOPMENT

BRTS PROJECT

ITS DEVELOPMENT

NMT DEVELOPMENT

TRUNK AND FEEDER INTEGRATION

Interchange facilities between sub-urban and city service.

Integrated ticketing: Trunk – feeder.

Route rationalization



DEVELOPING A CITY PLAN FOR HUBLI- DHARWAD

Planning framework for the City

Planning tramework 101 and Developing Urban design guidelines for the BRT corridor OBLOS

TRANSIT ORIENTED DESIGN

Demonstration Project for ToD –Shaping Hubli-Dharwad as a CONNECTED CITY Improving BRT station accessibility, developing public plaza Integrating NMT, IPT facilities with BRT stops and NMT improvements



GREEN BRTS PROGRAMME

Around 3500 trees cut for the Project Action plan prepared for GREEN BRTS

- 18,000 saplings to be planted

 Avenue Plantation
 - Transit infrastructure plantation
 - Plantation in Schools, Colleges, Parks and other Public Spaces.

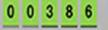
GREEN BRTS Committee set up consisting of representatives of local environmental groups

Incentivizing planting in schools –Namma Thota @ GREEN BRTS

GREEN COUNTER on Website







WORKING WITH COMMUNITY

FGD's and Public consultation
Relocating community structures
Discussion on BRT Designs/ TOD Designs
Income generation activity training

PUBLIC OUTREACH ACTIVITES

Campaign Plan for BRT

Presentation in colleges, schools etc

Organizing, competitions, events campaigns, street plays, etc

Information dissemination through Public information centre, Monthly news letter, website, press releases, media conferences,







