

“Application of Geospatial Technology for Sustainable Public Transport –North Western Karnataka Road Transport Corporation Hubli Initiatives”

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NWKRTC –At a glance

Sl. No.	Particulars	1997-98	2015-16	2016-17 (up to Jan - 2017)
1	No. of Districts	7	6	6
2	No. of Divisions	7	8	8
3	No. of Depots	36	48	49
4	No. of Divisional Workshops	5	8	8
5	Regional workshop	1	1	1
6	No. of Bus stands	136	164	165
7	Regional Training Institute	1	1	1
8	No. of schedules	2907	4581	4654
9	No. of trips	23129	36340	37340
10	No. of buses	3227	4735	4816
11	Daily Kms operated (in lakhs)	9.58	16.46	15.51
12	Passengers Carried (in lakhs)	11.25	22.65	23.00
13	Total revenue (Rs. in crore)	368.73	1733.80	1715.47
14	Margin (Rs. in crore)	0.22	-38.70	-4.93



STAKEHOLDERS EXPECTATIONS

- Government: Meet the demands of public and get positive return on investments
- Management: Prevent wastage of resources, maximum utilisation of inputs like fuel, staff, capital, spares, finance and technological advancement
- Passengers: Zero waiting time, services at door step, accessibility to information, first and last mile connectivity and hassle free travelling
- Employees: Periodical wage revision, Security and welfare



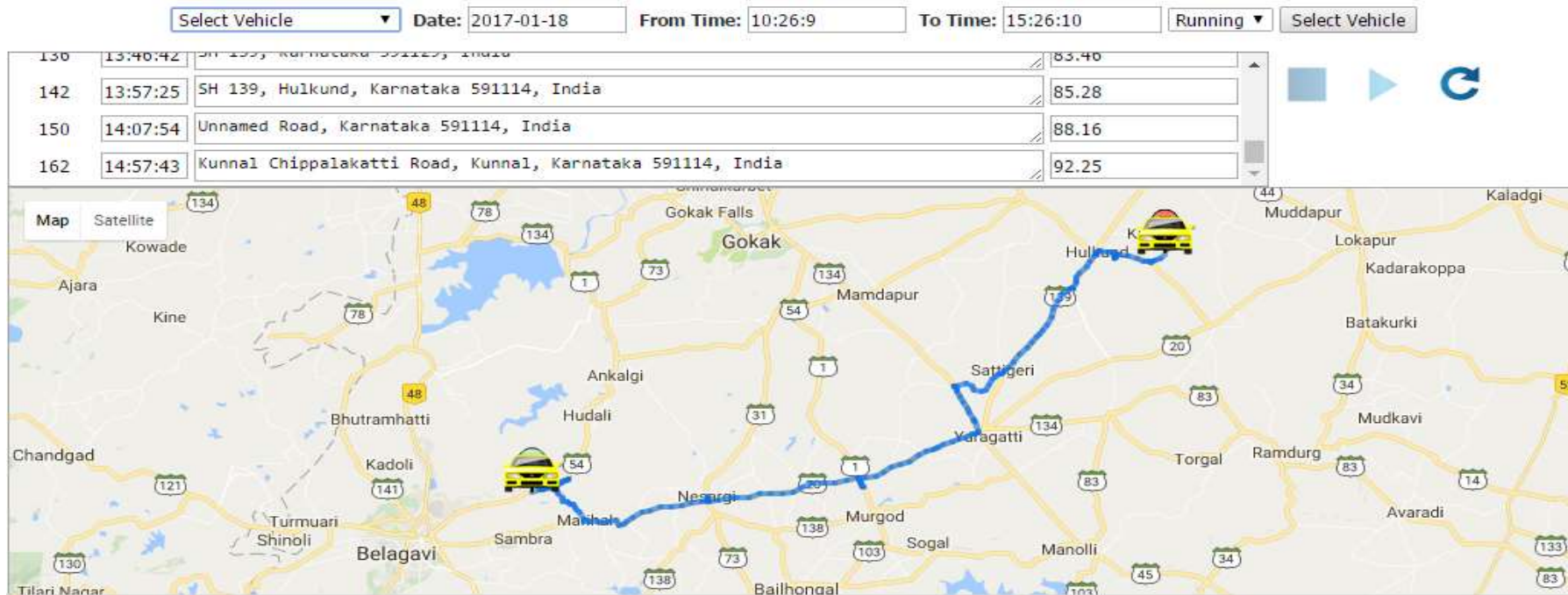
Vehicle Tracking & Monitoring System (VTMS):

- Dash Board
- Daily Report
- Monthly Report
- Speed Report
- Stop & Halt Report
- Engine Report
- Current Tracking Info
- Geotag Location Report
- Fence Violation Report
- Panic Alert Report
- Fuel Graph Report
- Fuel Report
- Travel Replay Report
- Track History Report



APPLICATION OF GEO SPECIAL TECHNOLOGY CONTD..

VEHICLE TRACKING SYSTEM



CONTD..

VEHICLE MONITORING SYSTEM



Bus Driver Console (BDC)



Single Control Unit (SCU)



Security Network and Camera PIS Display

CONTD..

PASSENGER INFORMATION SYSTEM



Voice announcement system: Next stop, arrived bus stop (Bilingual)

Passenger Information Display System: Destination, next bus stop, arrived bus stop and slogans



Contd..

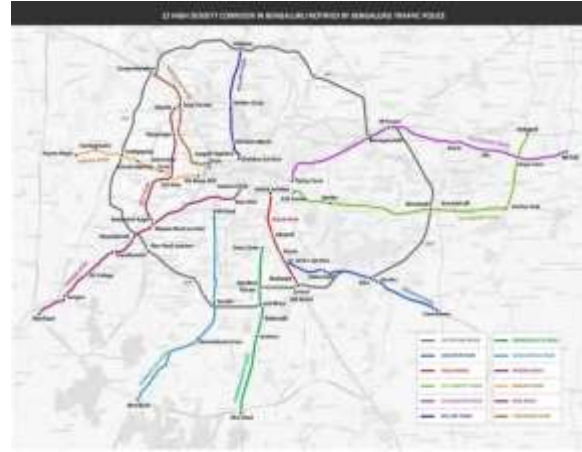
Public Address System at Hubli new bus station



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Route rationalisation



North Western Karnataka Road Transport Corporation

Welcome To NWKRTC

CORONA A/C SLEEPER

Toll Free Number - 0894 421 0000

WELCOME TO NWKRTC

Departure Time: 07:00 AM

Departure Time: 08:30 AM

Departure Time: 09:00 AM

Online grievance application



BENEFITS OF GEOSPATIAL TECHNOLOGY IN PUBLIC TRANSPORT

- Prevention of Operational Indiscipline
- Vehicle Health Monitoring System
- Improvement in fuel performance
- Reduction in accidents and breakdowns
- Real time passenger information
- Prevention of Wastage of Resources
- Maximize utilisation of resources
- Accountability of management and employee



THANK YOU..

