

Leaders-5 Mid Term Review



City Bus Intelligent Transport System(CBITS) in Chhattisgarh



Presented By Surender Kumar Mriga Dy Project Manager State Urban Development Authority

Current Scenario of City Bus System in Chhattisgarh

- 35 Standard NAC(TATA) & 65 Midi NAC(Mahindra) Buses Procured under JnNURM Phase 1 in 2012- Only for Raipur City
- Under JnNURM –II, Project for Procurement of 451 Buses & Development of Ancillary Infrastructure Sanctioned on 13.01.2014.
- Project sanctioned for 21 Clusters, 70 Cities (21 Core Cities & 49 Link Towns) serving about 80% of Urban Population.
- 21 Clusters are further regrouped into 09 Urban Agglomeration Duly Notified in Gazette.
- Nine separate SPVs established under chairmanship of Collector of Lead District.
- 09 Urban Public Transport Societies have been registered.
- All the concerned ULBs and department officials like RTO, Supt. of Police etc. are members of SPV.
- The District Collector is the Chairman of the Society and the Municipal Commissioner of the Lead ULB is the Member Secretary.

PROJECT FACT SHEET

Urban Agglomerations		0	9				
Clusters	21						
Number of Towns	70 (21 0	Core & 4	9 Link T	owns)			
	Population	Central	State	ULB			
Financial Structure	< 10 Lacs	80%	20%	0%			
	>10 Lacs	50%	20%	30%			
Number of Buses Sanctioned		451					
Typology	45 Mini, 292 N	/lidi & 11 S	tandard Non	Ion- AC Buses			
	52 Midi & 51 Semi Low Floor AC Buses						
Project Cost	IN	NR 183.94	45 Crores				
Cost of Buses	II	NR 147.3	89 Crores				
Ancillary Infrastructure Cost (Depot/Depot Cum Terminal/Workshops)	I	INR 26.0 ⁻	7 Crores				
Intelligent Transport System(ITS)		INR 7.98	Crores				
			9 .0	Orban Mobility India Iference & Expo 20 Planning Mobility for City's Susta			

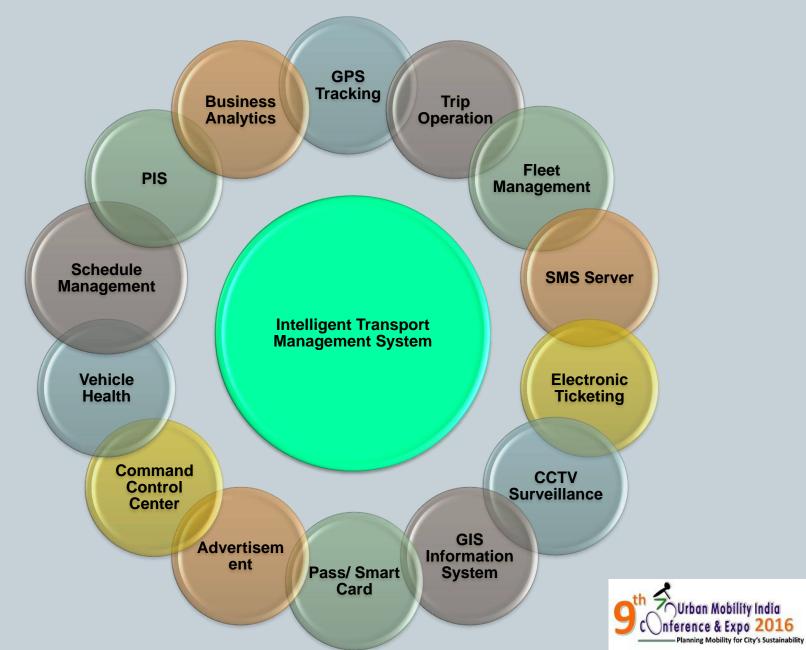
Planning Mobility for City's Sustainability

CBITS - An Overview

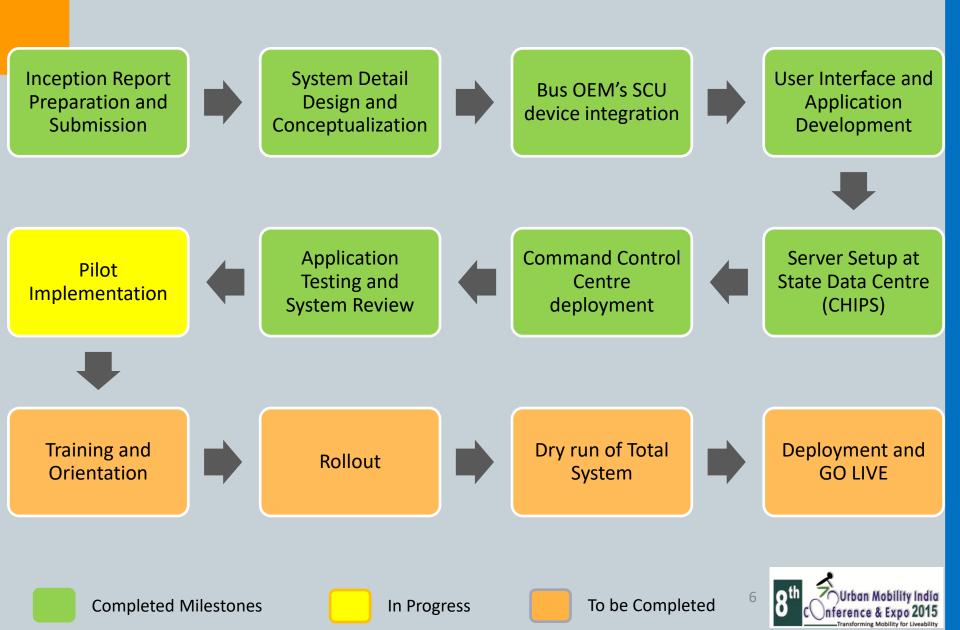
- Real-time monitoring and tracking of buses to reduce road congestion and other transport issues.
- Performance monitoring of Bus Operator.
- Dynamic Passenger Information System (PIS-Bus Q shelter & Citizen interface) based on Geographical Positioning System (GPS)
- Advanced display and communication technologies, Central Control Station (CCS) and intelligent display boards.
- ITS improves passenger safety, fleet efficiency, services and traffic situation through transmission of real time information.
- Audio- Visual Advertisement through ITS.
- Depot and operation management.
- Panic Button for Emergency Response System.
- Bus fare and on board ticketing system.



ITS Overview of Modules



CBITS: Overall Project Status



CBITS: Command Control Centre Raipur



CBITS: Deployment at Bilaspur



LOCATION: Bilaspur Core City Level UPTS unit at Bilaspur Municipal Corporation



LOCATION: Bilaspur Depot Command Centre at Koni Ramkrishna Ashram



LOCATION: LED Display at Collectorate, Bilaspur



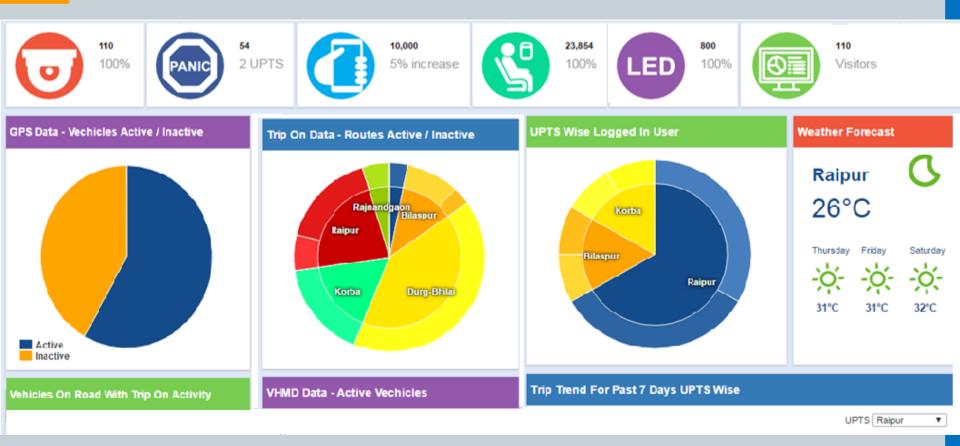
LOCATION: LED Display at Nehru Chowk, Bilaspur



Urban Mobility India

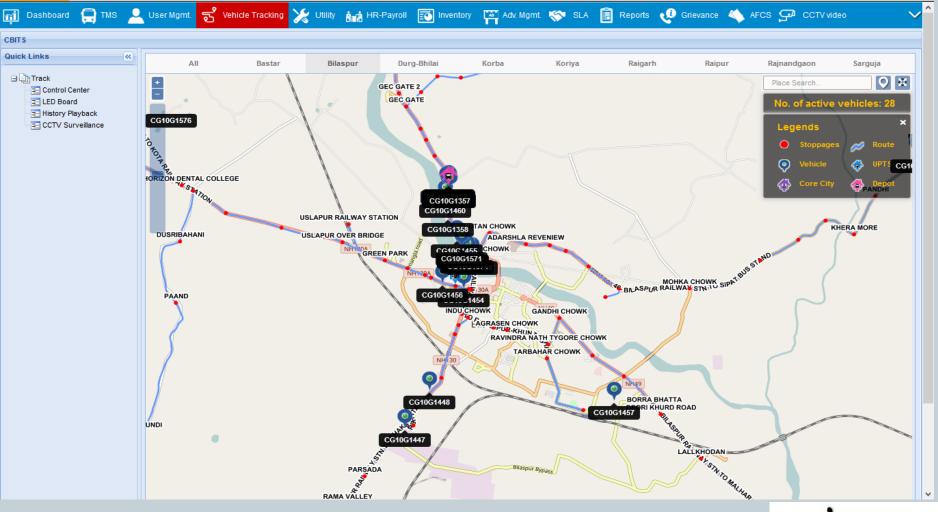
nference & Expo 2015

CBITS Application: Main Dashboard





CBITS Application: Command Control Module





CBITS Application: Vehicle Instant Dashboard



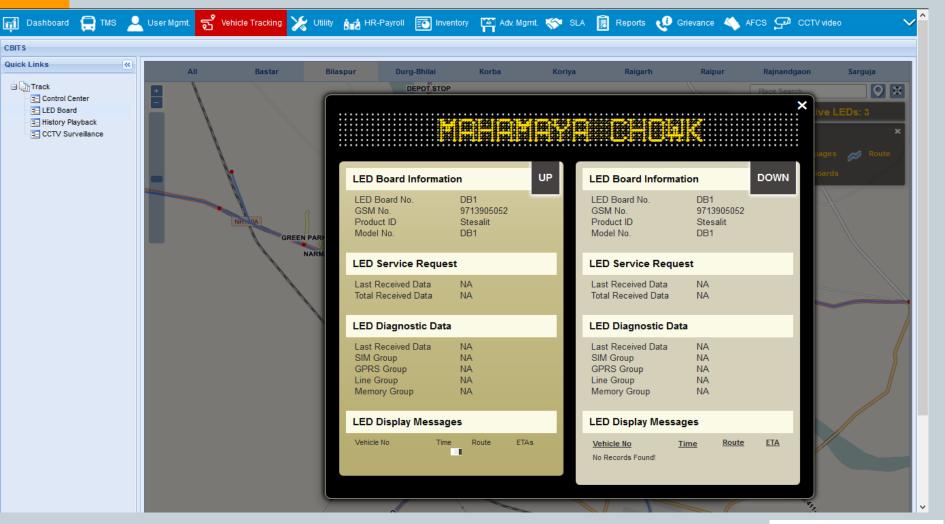


CBITS Application: CCTV Footage Module

BITS						
uick Links «	Date:	23-09-2016 Ve	ehicle No: CG	04EA0323 UPT	S: Raipur Depot: Pandari Back	
E Control Center LED Board History Playback	S.No	Time From	Time To	Action	CAM 1	<page-header><image/><image/><image/><image/><image/><image/><section-header><image/><image/><section-header><section-header><image/></section-header></section-header></section-header></page-header>
CCTV Surveillance	1	14:01:10	14:03:52	Play Video	2116-09-23 14/01 16	
	2	1 <mark>4:01:11</mark>	14:03:40	Play Video		
	3	14:01:35	14:04:22	Play Video		
	4	1 <mark>4:03:4</mark> 1	14:05:49	Play Video		
	5	14:03:53	14:06:05	Play Video		
	6	14:04:23	14:07:36	Play Video		
	7	14:05:50	14:07:50	Play Video		
	8	14:06:06	14:08:26	Play Video		
	9	14:07:51	<mark>14:10:18</mark>	Play Video		
	10	14:08:27	14:11:07	Play Video	CAM 3	CAM 4
	11	1 <mark>4:10:20</mark>	1 <mark>4</mark> :12:12	Play Video	2016-09-23 14:01 35	
	12	1 <mark>4</mark> :11:08	14:13:22	Play Video	A DECEMBER OF THE DECEMBER OF	
	13	14:12:13	1 <mark>4</mark> :14:26	Play Video		
	14	14:13:22	14:15:41	Play Video		
	15	1 <mark>4:14:2</mark> 8	14:16:21	Play Video		
	16	1 <mark>4:15:4</mark> 1	14:17:46	Play Video		-
	17	14:16:22	14:18:32	Play Video		
	18	1 <mark>4:17:4</mark> 7	14:19:47	Play Video	AN A	
	19	14:18:32	14:20:26	Play Video		



CBITS Application: LED Display Control Module





CBITS Application: History Playback Module

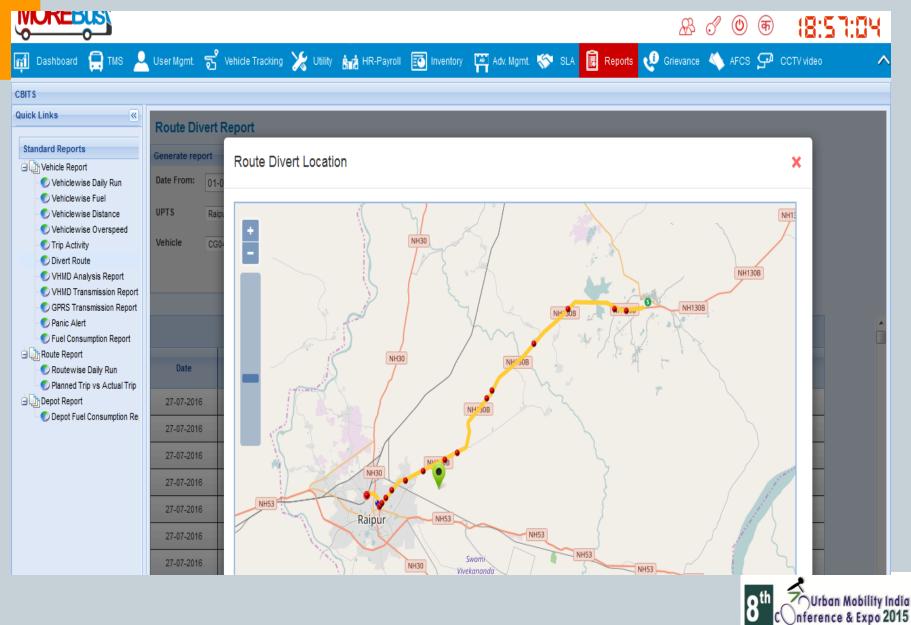
History details for vehicle CG04E3524 on 18-10-2016

Start time	End time	Distance	668	10:23:46	21.27538833,81.63625	11.33 km	•
09:00:00	11:00:00	11.70 km	669	10:23:49	21.27567833,81.63620667	11.37 km	
			670	10:23:52	21.27593667,81.636185	11.40 km	
			671	10:23:55	21.27616167,81.63616333	11.42 km	
	1 and the		H13 672	10:23:58	21.27631167,81.63614167	11.44 km	
			673	10:24:01	21.27634333,81.63614167	11.44 km	
1 m			674	10:24:04	21.27637667,81.63614167	11.45 km	
			675	10:24:07	21.27641833,81.63614167	11.45 km	
		NH130B	676	10:24:10	21.27648333,81.63612167	11.46 km	
			677	10:24:13	21.27654667,81.63612167	11.47 km	
AND			678	10:24:16	21.27655833,81.63612167	11.47 km	
NH53		1130B	679	10:24:19	21.27656833,81.63612167	11.47 km	-
	Raipur NH53	NH53 NH53		R			

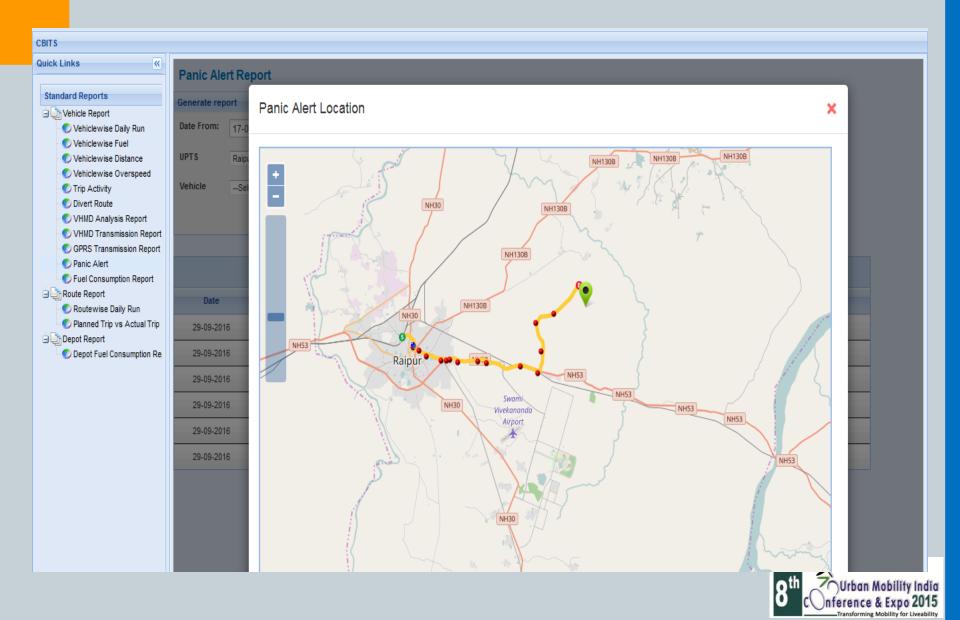


Back

CBITS Application: Route Diversion Reporting



CBITS Application: Panic Alert Reporting



CBITS Application: Fuel Consumption Reporting

: Links 《	VHMD Analysis Report		
ndard Reports	Generate report		
) Vehicle Report Vehiclewise Daily Run	Date: 18-10-2016		
Vehiclewise Fuel Vehiclewise Distance	UPTS Raipur y Depot Pandari y		
Vehiclewise Overspeed			
🕐 Trip Activity 🖤 Divert Route	Vehicle: CG04E3524 V Param: Fuel Level V		
VHMD Analysis Report	Generate Download PDF Export to CSV		
VHMD Transmission Report			
Panic Alert Fuel Consumption Report	Fuel Level Rep	port For Vehicle CG04E3524 At Depot Pandari On I	Date 18-10-2016
Route Report			
Coutewise Daily Run Planned Trip vs Actual Trip	100		Fuel
Depot Report	75	mon my her had a man for more thank when the	Level
🕐 Depot Fuel Consumption Re			Min
	50		Max
	25		
	0		المراجع مراجع مراجع م
		Time	
		Fuel Level - Min Value : 0 % - Max Value : 100 %	
	Time	Fuel Level (Average)	Unit
	06:29:00 - 06:29:59	100	%
	06:31:00 - 06:31:59	98.91	%
	06:32:00 - 06:32:59	98.98	%
	06:33:00 06:33:50	97.05	0/

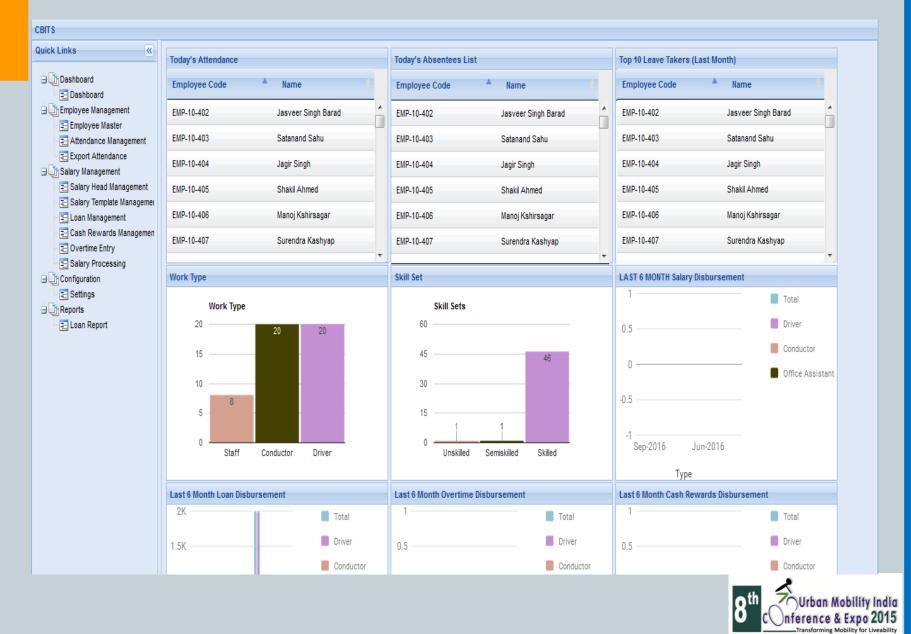
CBITS Application: Vehicle Scheduling Module

🚮 Dashboard 🚍 TMS 👱 User	r Mgmt. 🕤 Vehicle Tra	icking 🄀 Utility 👬 🕯	HR-Payroll	🕤 Inventory 🛛	🏹 Adv. Mgmt. SLA	🔋 Reports	🤨 Grievance	🔌 afcs 뎍	CCTV video
CBITS									
Quick Links									
Manage Administrator	iew Schedule								
E City UPTS Management Depot Management	Date From	01-01-2016	Date To	31-12-2	2016				
E VHMD Type Management	Shift	А	TaskJob N	o 0268.R	I-51-A				
THMD Management	Up	Route		Down	Route				
 Vehicle Management Vehicle Maker Management Manage Route 	Up-Route: 51U-Korba	Railway Station-Rajgamar	Down-R	oute: 51D-Rajgam	nar-Korba Railway Station				
E Route Management Manage Display Board Show displayboard Display Board Registration	Route Time Schedu	ıle							
Manage Bus Stoppage	Departure Time	Arrival Time	Depa	ture Time	Arrival Time				
Manage SCU Device SCU Device SCU Device Registration	06:00:00	06:40:00	0	6:45:00	07:25:00				
SCU Maker Management Manage Schedule	07:40:00	08:20:00	0	3:25:00	09:05:00				
E Bus Scheduling Dailyjob Scheduling Assign Bus to Jobcard	09:20:00	10:00:00	1	0:05:00	10:45:00				
	10:55:00	11:35:00	1'	1:40:00	12:20:00				
	12:35:00	13:15:00	1	3:20:00	14:00:00				
	14:15:00	14:55:00	1	5:00:00	15:40:00				
	15:55:00	16:35:00	1	6:40:00	17:20:00				
	17:35:00	18:15:00	1	3:20:00	19:00:00				
	19:15:00	19:55:00	2	0:00:00	20:40:00				

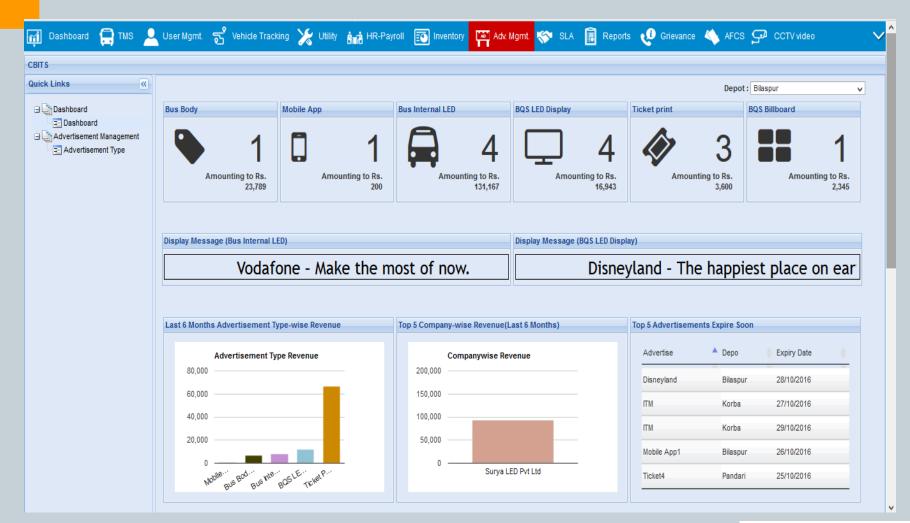
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CBITS Application: HR & Payroll Dashboard

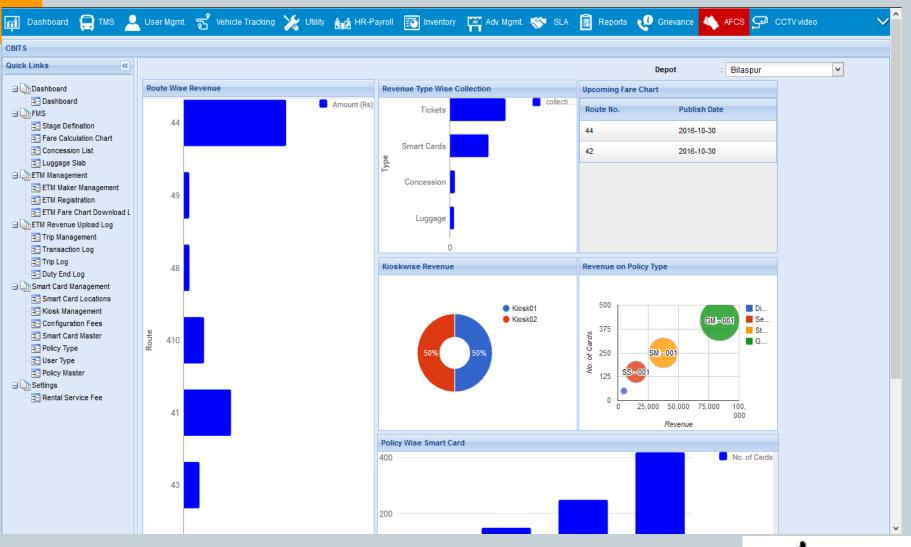


CBITS Application: Advertisement Dashboard



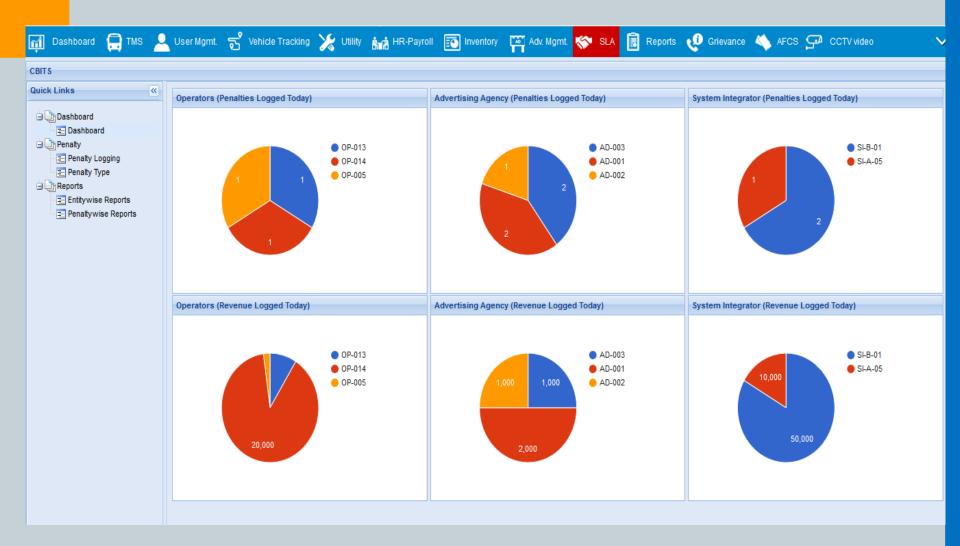


CBITS Application: Fare Management Revenue Dashboard





CBITS Application: SLA Dashboard

















City		
Bilaspur		
Route		
Bilaspur Railway	Station-Chakarbhata	
UP ROUTE	DOWN ROUTI	
Dep Time 06:00	00 -> Arr Time 00.50.00	
Dep Time 07:00	00 -> Arr Time 07.50	1
4	о п	













Progress of Project

- $\checkmark\,$ A common card for city buses of 4 cities launched.
- ✓ Mobile app has been developed vendor advised to add
- Self ticketing
- QR code/ magnetic card/ contactless card ticketing through NCPI enabled digital wallet modules in the app.
- ✓ First Round discussions with the Financial Institutions
 for payment gateway /NPCI Card completed.



Next Steps-

✓ Primary and legacy Data Collection completed.
 ✓ Parallel real time data analysis ongoing.
 ✓ CBITS application launched on 1st November 2016.
 ✓ A common card for city buses of 4 cities launched.
 ✓ Beta Version of Mobile app launched on 1st November.

- Data Collection and analysis to be completed by 15 November.
- Additional modules in the app are in process of development
- CBITS project -to be rolled out and go-live by December End.
- NPCI enabled Multimodal payment solution to be onboard by June 2017 under Smart Cities mission.



City Bus Smart Card for 4 Cities



CASH CARD Card No.: A0006278

Terms & Conditions:

- Minimum recharge amount and the discount would be as per prevailing rules of Operator.
- Smart Card recharge value is non-refundable and non-transferable. Operator reserves the right of the card.
- Smart Card holders will abide by all the rules and regulations prevailing fir the issue of Smart Card.
- Operator has the right to cancel or withdraw the scheme at any time without any prior notice.
- Smart Card allowed in Raipur, Bilaspur, Korba, Durg-Bhilai, Dhamtari, Nawapara, Mahasamund and Baloda Bazar.





