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Curriculum Vitae (CV) of Team Members

Name of the Staff		Rakesh Kumar Singh			
Current Designation in the Organization	Manager-ITS				
Proposed Role in the Project	Solution Architect – Traffic and Transport				
Proposed Responsibilities in the Project	<ul style="list-style-type: none">• Solution Design for ATCS• Architectural Framework Creation• Project Monitoring/Management for ATCS Solution				
Date of Birth	15 th Aug. 1974				
Education	<ul style="list-style-type: none">▪ B. Tech. (E&C), J R N Rajasthan University Udaipur, Rajasthan, 2010▪ Diploma in Electronics (Three year Engineering), U.P.B.T.E. Lucknow, 1999				
Summary of Key Training and Certifications	SCOOT , Time Management				
Language Proficiency	Language		Reading	Writing	Speaking
	English		Excellent	Excellent	Excellent
	Hindi		Excellent	Excellent	Excellent



DELHI INTEGRATED MULTI-MODAL TRANSIT SYSTEM LTD.

(A joint venture of the Govt. of NCT of Delhi and IDFC Foundation)

An ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 & ISO 27001 certified company

CIN No. U60232DL2006PLC148406

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	Employment Record (For the total relevant experience)	<p>From Oct. 2009 Employer</p> <p>Position held</p> <p>From Apr. 2000 Employer</p> <p>Position Held</p> <p>From Sep. 1999 Employer</p> <p>Position held</p>	<p>: To date</p> <p>: Delhi Integrated Multi Modal Transit System Ltd.</p> <p>: Manager – ITS</p> <p>: Oct. 2009</p> <p>: CMS Traffic Systems Ltd</p> <p>: Field Engineer, Sr. Field Engineer, Sr. Tech Support & Asst. Manager Maintenance & Operation</p> <p>: Apr. 2000</p> <p>: SD College of Engineering and Technology</p> <p>: Lab Instructor in Electronics Telecommunication Department</p>
0	Total No. of Years of Work Experience	Eighteen years (18+)	
1	Total No. of Years of Experience for the role proposed	Eighteen Years (18)	



Name of Assignment or Project:	DPR Preparation and Bid Process Management for Implementation of <u>Intelligent Transit Management System</u> and <u>Intelligent Traffic Management System</u> for Jabalpur Smart City Limited
Year	2017 – Ongoing
Location	Jabalpur (Madhya Pradesh)
Client	Jabalpur Smart City Limited
Main Project Feature	<p>Jabalpur desires to foster the development of a robust and intelligent Transit and Traffic Management System Infrastructure that is reliable and IT enabled. Intra city transit is a crucial component in the development of a city and its citizens.</p> <p>The final output of this assignment shall consist of Detailed Project Reports (DPR) in two volumes: Intelligent Traffic Management System and Intelligent Transit System respectively, bid documents and an implementation partner engaged with Jabalpur Smart City Limited (JSCL) for executing the DPRs</p>
Position Held	ITMS expert
Activities Performed	<ul style="list-style-type: none"> • Carry out baseline and as-is study of Jabalpur City. • Carry out detailed study of the junctions, signals, existing Traffic Management System and other ICT enabled transportation solutions etc. • Conducting tech scan with latest technologies present in the market • Demand assessment for horizon years to assess the extent of ITMS and ITS infrastructure. • Site Surveys for Preparation of BoQ and BoM of ITS Equipment, Network Cable etc. • Based on the studies and assessment surveys carried out, prepare a feasibility report.
Name of Assignment or Project:	Design, Supply, Installation, Testing & Commissioning including Operation & Maintenance of <u>ATCS Project</u> in Jammu City.
Year:	2016 – Ongoing
Location:	Jammu City
Client:	Jammu Municipal Corporation
Main Project Feature:	<p>Design, Supply, Installation, Testing & Commissioning including Operation & Maintenance of ATCS Project with Control Room in Jammu City.</p> <p>Number of Signals: 64</p>



	Technology used: CDAC COSICOST Project Cost: Rs. 14. 25 Cr
Position Held:	Project Manager
Activities Performed:	Survey, Solution Design , Procurement , Installation, Testing & commissioning, Operation & Maintenance;
Name of Assignment or Project:	Bid Process Management & Project Management Consultancy of <u>Highway Traffic Management System (HTMS)</u> on Noida- Gr. Noida Expressway for New Okhla Industrial Development Authority (NOIDA)
Year:	2014-2015 Completed under O&M Stage
Location:	NOIDA
Client(s):	New Okhla Industrial Development Authority (NOIDA)
Main Project Features:	<p>The project involves the Consultancy for Implementation of HTMS on Noida-Gr. Noida Expressway</p> <p>Design report with specification and cost estimation for Noida - Gr. Noida Expressway Highway Transport Management System (HTMS)</p> <p>Part A- Bid Process Management (Evaluation of Technical & Price Bids of participating bidders)</p> <p>Part B- Project Management Consultancy (Monitoring the Implementation of HTMS by successful bidder)</p> <p>No. of Variable Message Sign – 13</p> <p>No. Video Incident Detection – 15</p> <p>No. of CCTV Surveillance – 46</p> <p>No. of ANPR Based Speed Monitoring & Speed Violation Detection System – 24</p>
Position Held:	ITS Expert
Activities Performed:	Evaluation of Technical and Price Bids, Detailed Site Reconnaissance, Evaluation of Work Plan, Review of Strategic Locations for installation of Field Equipments, Weekly Progress Reports, Verification of Technical Specification of supplied material/equipment as per BOQ, Quantity Surveying for ITS equipment, optical fiber cable, Inspection of installed Field Equipments, FAT visits to OEM Facility, Certification for satisfactory commissioning of HTMS sub-systems and control room.
Name of Assignment or Project:	Development, Supply, Installation & Maintenance of <u>ATCS</u> for <u>BRTS Junctions</u> in Surat City
Year:	2014 –May 2015 (Implementation)
Location:	Surat
Client:	Surat Municipal Corporation
Main Project Features:	<p>Development, Supply, Installation, Maintenance & Operation of ATCS for BRTS Junctions in Surat City</p> <ul style="list-style-type: none"> • Wireless Traffic Controller based Traffic Signals at 46 Junctions • Vehicle Detection Cameras at each Junction • Area Traffic Control System (ATCS) with state of the art Control Room



	Number of Signals: 46 Technology used: CDAC COSICOST Project Cost: Rs. 13.63 Cr
Position Held:	ITS Expert
Activities Performed:	Activities involved Survey, Design, Local Office Set-up, Procurement of equipment, Hiring of Sub-Contractors, Traffic Management Architecture design , Vehicle Operators & Vendors, SITC, Maintenance and Operation of ATCS on BRT Corridor in Surat
Name of Assignment or Project:	Design, Development & Implementation of <u>Automatic Vehicle Tracking System</u> in Cluster Buses
Year:	2011 – 2012
Location:	Delhi
Client:	Transport Department, Govt. of NCT of Delhi
Main Project Features:	Automatic Vehicle Tracking System (AVTS), Passenger information inside Bus, Passenger information system on BUS station LED boards, SMS, Web , covering over 6000 buses, 500 PIS boards, Over 5000 bus stops and 1200 routes.
Position Held:	ITS Expert
Activities Performed:	<ul style="list-style-type: none"> • Ensuring that Backend Application Software is tested and is ready for deployment within six months from the date of approval of SRS by Transport Department • Development of the integration software for tracking of buses in the GIS route-map of Delhi through web based access • Fare Integration with Electronic Ticketing Machine through Web based mechanism • Setting up of data centre • Resource Mobilisation • Schedule Quality Checks on the entire system • Project Management & Monitoring
Name of Assignment or Project:	Implementation of <u>Intelligent signaling System</u> & <u>CCTV Cameras</u> with state of the art Control and command Centre at ISBT, Delhi for SCOOT system on Ambedkar Nagar- Delhi Gate BRT corridor
Year:	2009 – 2011
Location:	Delhi
Client:	Transport Department, Govt. of NCT of Delhi
Main Project Features:	Installation & Commissioning of Intelligent Signalling System for Optimization, Synchronization, and Reduced journey Time with SCOOT, CCTV Surveillance & Control Room Setup. Number of Signals: 17



	Technology used: SCOOT Project Cost: Rs. 12 Cr
Position Held:	ITS Expert
Activities Performed:	Responsible for Installation and commission of ISS including CCTV Camera, Security System, Solution Architecture design and also involved in Operation and Maintenance of the system.
Name of Assignment or Project:	Design, Implementation and Operation and Management <u>Control and Data Centre at ISBT Kashmere Gate</u>
Year:	2010 – ongoing
Location:	Delhi
Client:	Transport Department, Govt. of NCT of Delhi
Main Project Feature:	<p>DIMTS has developed a state of the art Operations Command & Control (OCC) Centre including a Data Centre (DC) at its premises at Kashmere Gate. There has been a quantum leap in terms of the Information and Communications Technology (ICT) based transportation projects. Each being interlinked with the other, a need was felt to develop a Command and Control Center to integrate and manage, monitor the transportation system and intervene in case of a crisis.</p> <p>The OCC and DC shall operate and control the following systems:-</p> <ul style="list-style-type: none"> i) Intelligent Signaling System (ISS) ii) Bus Rapid Transit (BRT) Corridor iii) Automatic Vehicle Location System (AVL) iv) Automatic fare collection Systems (AFCS) v) Private Stage carriage in 17 Clusters <p>OCC and DC are equipped with servers that are linked to the ISS, AVL and AFCS components in the field, in real time through GPRS and Optical Fiber Cable (OFC). The activities will be monitored on Barco screens installed in the OCC and LCD panel in addition to the work stations of the respective staff. The Command Centre shall be manned 24 hours for real time monitoring of all activities. For the ISS the OCC will work towards facilitating a smooth flow of traffic. It will capable of:</p> <ul style="list-style-type: none"> • Live traffic monitoring on BARCO Screen • On line fault detection system • Advanced traffic information and management system • CCTV recording system • Management & Operation of entire signaling system
Position Held:	Manager - ITS
Activities Performed:	Site survey, Procurement, budgets, billing, FAT, Monitoring, installation, testing & commissioning Project Management and supervision
Name of Assignment or	Maintenance of <u>Intelligent Signalling System</u> in Delhi and upgraded



Project:	new junctions with state of the art <u>Control and command Centre</u> at TEEN Murti Police Line New Delhi for SCOOT system, Installation & Commissioning of Variable message Sign & Parking System in Connaught Place Circle with VMS system
Year:	2000 – 2009
Location:	Delhi
Client:	Delhi Traffic Police , PWD & NDMC
Main Project Feature:	<p>Signals Optimization, Synchronization of corridors, Reduced Journey Time, operation & control Facilities from Control Room.</p> <p>Number of Signals: 100 ATCS, 250 Fixed Time/Vehicle Actuated</p> <p>Technology used: SCOOT</p>
Position Held:	Assistant Manager (Operation & Maintenance)
Activities Performed:	Responsible for Maintenance of different type of Traffic Signals as like Fixed Time, Vehicle Actuated and Area Traffic Control (ATC) System, System integration in ITS projects, GSM based Variable Messaging System, Automatic Vehicle Counter and Classifier & CCTV Surveillance system & Parking system with Control Room. Liaising with Delhi Traffic Police field Officials, Public work Department, and Delhi Development Authority, Municipal Corporation of Delhi & NDMC.

