TraffiConsult

Middle East Traffic Consulting L.L.C

QUALITY
INTEGRITY
INNOVATION
PROFESSIONALISM

COMPANY PROFILE

A local Qatar registered consulting company specialized in providing traffic engineering, ITS planning and design, transportation planning and roadway design to public and private sector clients. Since its founding in January 2009, TraffiConsult emphasized the development of creative, cost-effective, and results-oriented solutions to planning and design transportation problems.

We strive to be the most competent traffic/ITS consultant in the region and be a client preferred traffic engineering, transportation planning, and ITS consulting services provider.

OUR STRATIGY

TraffiConsult integrated approach have earned the trust of public and private sector clients. Our in-house multi-disciplinary expertise and local presence enable us in delivering high-quality solutions for our clients and paving way for our long lasting business relationship with our valuable clients. We provide consultancy services across the transport sector, including planning, modelling designing, engineering and management. Whether the project involves multi-modal modelling, urban transport planning, Highway engineering, Intelligent Transportation Systems or Temporary Traffic Management or any other element within the rapidly advancing transport sector, we can apply state-of-the-art technology to effect modern solutions to problems of any complexity.

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TraffiConsult is ISO 9001:2008 Certified

Applus VQMI

RvA MGMT. SYS. RvA C 407

ISO 9001:2008 C 503
MGMT. SYS. CERTIFIED

PROVIDING CREATIVE, COST EFFECTIVE AND ENVIRONMENTALLY FRIENDLY TRANSPORTATION SOLUTIONS BASED ON 21ST CENTURY'S NEEDS

ITS INTELLIGENT TRANSPORTATION SYSTEMS

Intelligent Transportation Systems (ITS) improvements have become vital to the public agencies and large private developments as they employ the latest innovative technologies to address the problems of today and tomorrow. In addition to being on Ashghal's list of prequalified suppliers of ITS, TraffiConsult staff have extensive experience in various forms of ITS planning, design and implementation for small and large agencies throughout the United States and the Middle East. Our senior staff possess vast expertise in many specialized areas of ITS including:

- Strategic/Deployment Plans
- ITS Architecture
- ITS Master Plans
- ITS Design
- Traffic Management Systems (ATMS)
- Tunnel Management Systems
- Incident Management Systems
- Design of Real Time Traffic signal Systems
- Freeway/Urban Traffic Management Systems
- Parking Management Systems

HIGHWAY DESIGN

Our specialist **Highway Design** Section delivers both Road Design and Temporary Traffic Management Design from the inception to completion of major and minor highway schemes in accordance with local authority requirements and compliant to State of Qatar Standards and Specifications. Our specialist design services are tailored to the following engineering elements of construction projects:

- Highway / Detour Road Design
- Drainage Design
- Intersection Design
- Roundabout Design
- Traffic Control Plans
- Traffic Signal Design
- Signal Interconnect Systems
- Signing and Pavement Marking
- Temporary Traffic Management Plans

TRAFFIC AND TRANSPORTATION ENGINEERING

Transportation planning & demand modeling
Our staff has experience and Expertise in providing transportation planning for improvements to transportation systems in the USA, UK and prominently in the Middle East. Our role in these types of projects varies from utilizing the state of the art software based travel demand forecasting or manual count based forecasting for limited areas. Our tailored approach allows us to meet the client's requirement and to achieve project objective. Through our Transport Planning / Modelling services we strive to provide our client unique, value-added services that are also socially beneficial.

Traffic operations & Microsimulation
TraffiConsult staffs are experts in the area of Traffic Operational Analysis and Microsimulation, which aid in devising the recommendations to solve a range of urban transportation issues.

Parking Design, Audit & Management System
TraffiConsult staff has conducted numerous parking studies for public, private, and institutional clients throughout the United States and the Middle East. We focus on vehicular access as well as the safety and convenience of pedestrians and bicyclists.

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PROJECTS	PROJECTS IN	STAFF	EXPERTISE FROM
300+	25+ Cities	30+	15+ Countries

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INTELLIGENT TRANSPORTATION SYSTEMS

ITS Projects

New Orbital Highway & Truck Route P023 C3 Detailed ITS Design

Leighton and Al Jaber Engineering JV appointed TraffiConsult to develop ITS Concept of Operations, Preliminary Design and Detailed Design including communication network for the New Orbital Highway & Truck Route Expressway Project P023 Contract 3, based on Ashghal's operational requirements. This is one of four contracts, where Contract 3 connects with Contract 1 from the south and east and Contract 2 from the north. This project is a 55 km new dual carriageway with a unique geometric design that separates trucks from normal traffic. It also has five grade-separated interchanges. It is located to the west and south of Doha City. It provides direct connection to major truck generators such as New Doha Port, Mesaieed Industrial City and Ras Laffan indurtial City, where it serves as the cities bypass for trucks.

Lusail Expressway P003 ITS Detailed Design

TrafficTech Gulf appointed TraffiConsult as the ITS designer for Lusail Expressway Project P003, based on Ashghal's requirements and standards. The Lusail Expressway project includes the reconstruction and development of the current Lusail Expressway. It consists of a 5.3km highway of four lanes in addition to extra lanes to facilitate traffic between intersections. The project consists of three major interchanges, each one is three level interchange, and six tunnels. TraffiConsult's scope include the development of ITS detailed design for ITS design-build project of the Lusail Expressway. The design was based on an ITS concept design that needed to be revised as per Ashghal's latest ITS standards, then develop the ITS preliminary and detailed design. In addition, TraffiConult scope includes the development of shop drawings for the construction stage of the project.

Managing Contractor Services for Operation and Maintenance of Strategic Highways ATMS Design of Salwa and Dukhan Highways

TraffiConsult was appointed by **Carillion** to develop the ITS design for the ATMS system for two of the most strategic rural highways in the State of Qatar. The project includes developing the concept of operation and system's requirement, preparation of preliminary and detail **design of the ATMS system and the traffic control center**, preparation of project specifications, **tender documents** and cost estimates. It also includes providing the support to client with the **tender technical evaluation** during tender stage and support Carillion with the **site supervision** on the implementation & deployment of the ATMS design during construction. The first highway is Salwa International Highway, a 90kms dual four lanes limited access highway having 11 interchanges, connecting the Capital City Doha with the neighboring country at the southern borders with kingdom of Saudi Arabia. The second highway is Dukhan Highway, a 40kms dual four lanes highway, connecting east coast with the west coast of the State. This project is intended by the client to complete stage 1 out of several more stages planned for future expansion of the ATMS system. Stage 1 consisted of designing and implementing an ATMS system for both highways with one control center, with the objective to collect information.

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ITS Projects

Rayyan Road P007 Phase 2 Design Support Services

TraffiConsult is appointed by **ITS Qatar** for the design support services of Ashghal's Rayyan Road Expressway Project P007 Contract 2. This project consists of the reconstruction and upgrade of the main Al Rayyan Road together with the construction and upgrade of associated side roads and service roads. The project includes the construction of a new 5.5Km long four lane dual carriageway which will consist by 6 major interchanges and the construction of approximately 6.0 Km of side roads and 11.0 km associated service roads. TraffiConsult was appointed to provide support during construction related to shop drawings development. This includes studying the ITS design and determining conflicts with the existing or proposed utilities, proposing conflict resolutions, determining the feasibility of the intricate ITS design details, and the development of the ITS corridor shop drawings, tunnels's detailed cross sections and **ITS shop drawings** and **gantries foundation design** and detailed design drawings.

Ashghal Contract 5 ITS Planning Consultancy- Phase 1

TraffiConsult was part of a team, lead by **Gannett Fleming,** in charge of the development of a State-wide ITS Architecture and Master Plan that incorporates all modes of transportation. The primary purpose of this ITS Master Plan is to develop a comprehensive strategy to set the direction and pace of ITS investments within the State over the next 10 years and beyond. The strategy intends to accommodate any existing system components and be scalable to accommodate future growth of the country and its transportation network.

Ashghal's Contract 5 ITS Consultancy- Phase 2

Ashghal's Contract 5 project had three phases; phase 2 is the design phase, where detailed **design of ITS schemes** for the Doha Expressway projects were developed, it also included any other ITS design assignments requested by Ashghal. The Design projects completed by TraffiConsult under this phase are:

- ITS Detail Design of Huwailah Link Road
- ITS Preliminary Design of Al Rayyan St & Jassim Bin Mohd St
- ITS Preliminary Design of Al Corniche St
- ITS Preliminary Design of C-Ring Road

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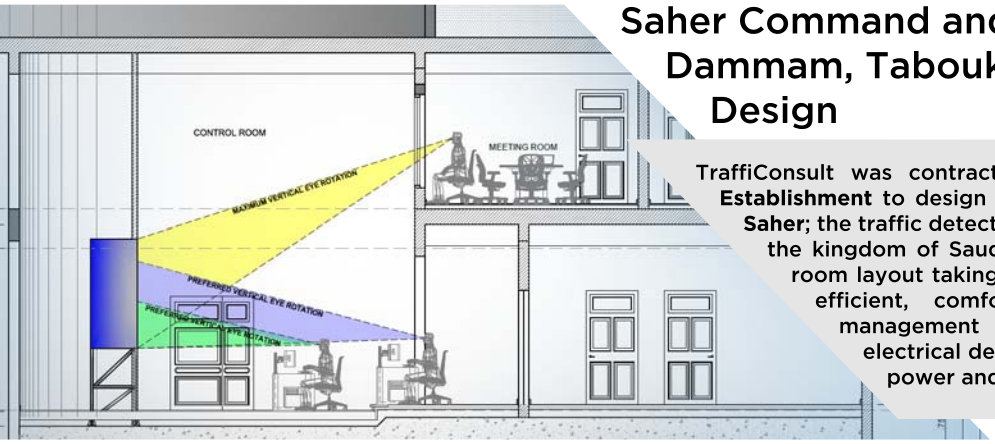
INTELLIGENT TRANSPORTATION SYSTEMS

ITS Projects



Saher Command and Control Center: Dammam, Tabouk and Aseer Control Center Design

TraffiConsult was contracted by **Al Afandi Trade Industry & Contracting Establishment** to design the layout of the command and control center for **Saher**; the traffic detection and violation system of the Ministry of Interior in the kingdom of Saudi Arabia. The work included designing the control room layout taking into consideration all equipment necessary for the efficient, comfortable operation and control of the traffic management system. TraffiConsult scope also included the electrical design of the control room that comprising of lighting, power and outlets.

MOT's Package 26 & 27: ITS Concept Design & Signal Design

TraffiConsult was appointed by **Khatib & Alami** for the development of ITS Concept Designs for all major roads within the packages 26 and 27 and the signal design for major intersections within the project limits. Package 26 & 27 are **transportation planning projects** that cover a considerable number of major roads in the heart of the City Doha. The roads included in the packages are C-Ring road, D-Ring road, Almansoura road and Haloul road. TraffiConsult's responsibility included collecting the existing, proposed/planned ITS data surrounding the roads within these two packages, Develop the ITS concept design and the **Signal design** of all junctionsbased on the proposed road geometric improvements developed by Khatib & Alami as part of over all traffic study.

Lusail City ATMS /ITS Master Plan

TraffiConsult is part of a team that is developing and implementing ATMS/ITS Master Plan and System Design for Lusail City. The project has three stages. The objective of the Stage 1 is to develop the Concept design of ATMS/ ITS Master Plan and System Architecture design. As part of Stage 1, TraffiConsult was involved in identifying and coordinating with stakeholders, conducting a user needs analysis workshop to gain input from stakeholders and preparation of Existing Systems Inventory Report to document the existing and being constructed ITS systems/devices within Lusail City

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HIGHWAY DESIGN

Road Design & Temporary Traffic Management Projects

Lusail Expressway (P003) Traffic Detour Design and Network Impact Assessment

Hyundai Engineering & Construction (HEC) appointed TraffiConsult to develop detour design, temporary traffic management plans, area-wide network impact assessment and temporary utility diversion plans, to facilitate construction of Ashghal's Lusail Expressway project. The Lusail Expressway project involves widening / up- grading of approximately (6 km) long, 4-lane divided, existing Al Istiqlal road, i.e. Lusail road, into 8-lane divided Lusail Expressway, including provision of service roads on each side of proposed expressway and grade separated interchanges at three junction locations. TraffiConsult's Scope of Work included preparation of Traffic Impact Study and VISSIM Modeling to verify and validate the impact due to proposed diversion and preparation of detailed design of approximately 6km long, three lanes divided temporary detour road, with drainage and street lighting, and temporary utility diversion plans. The scope also included the design of five (5) new, 4-legged traffic signal junctions on existing road, up-grade of three (3) existing roundabouts and six (6) right-in, right-out junctions, to facilitate construction of Lusail Expressway. The scope also included getting approval from various authorities including Ashghal and Traffic Police.

Al Muntazah Street Extension (P012) Traffic Detour Design and Network Impact Assessment

Al Jaber Transport & General Contracting (L.L.C) appointed TraffiConsult to develop detour design, temporary traffic management plans and area-wide network impact assessment to facilitate the construction of Ashghal's Al Muntazah Street Extension Project (P012). P012 Project involves widening / up-gradation of approximately 6.8km long, 3-lane divided, existing Al Muntazah Street, into 8-lanes divided Al Muntazah Expressway, including provision of service roads on each side of proposed expressway and grade separated interchanges. TraffiConsult's scope of work included preparation of Traffic Impact Study and VISSIM Modeling to verify and validate impact due to proposed diversion and preparation of detailed design of approximately 6.8km long, three lanes divided temporary detour road, with drainage and street lighting. The scope also included the design of three (3) new 4-legged traffic signal junctions on existing roads, up-grading of three (3) existing roundabouts and six (6) right-in, right-out junctions. The scope also included getting approval from various authorities including Ashghal and Traffic Police.

Al Rayyan Road Phase 1A TDP

TraffiConsult is contracted by **Hyundai/HBK JV** to conduct a **Traffic impact assessment, preparation of detour road design and temporary traffic management plan**, to facilitate construction of Al Rayyan Phase 1A in Musheireb Heart of Doha Project for Doha Land. The scope of includes evaluating impact of partial and full closure of Al Rayyan Road between Jassim Bin Mohammed St. and Abdullah Bin Thani Street and and assessing performance of the signalized junction at the intersection of Al Rayyan Road with Al Asmakh Street for before and after scenarios of the proposed traffic management. The objective of the study was to develop a Traffic impact assessment report, utilizing Synchro software, of the proposed traffic management plan along Al Rayyan Road and to Develop Detour Design Plans for three phases of temporary traffic diversion. The scope also includes getting approval from various authorities including Ashghal and Traffic Police.

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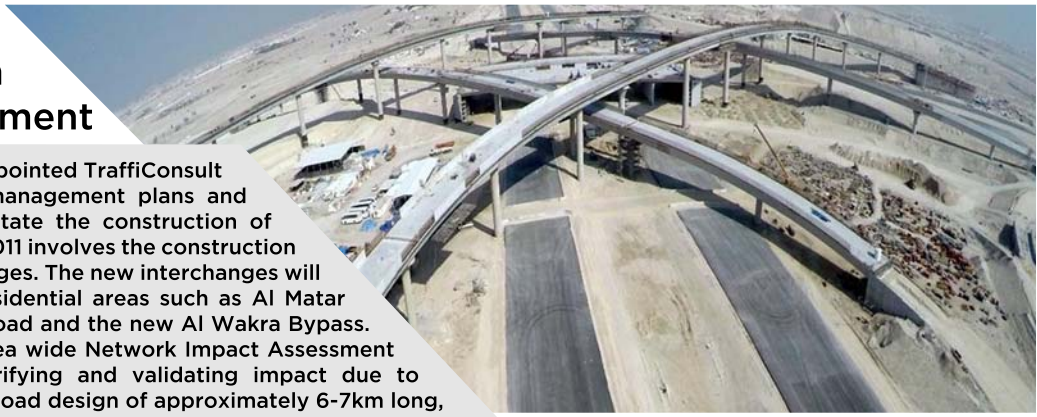
HIGHWAY DESIGN

Road Design & Temporary Traffic Management Projects

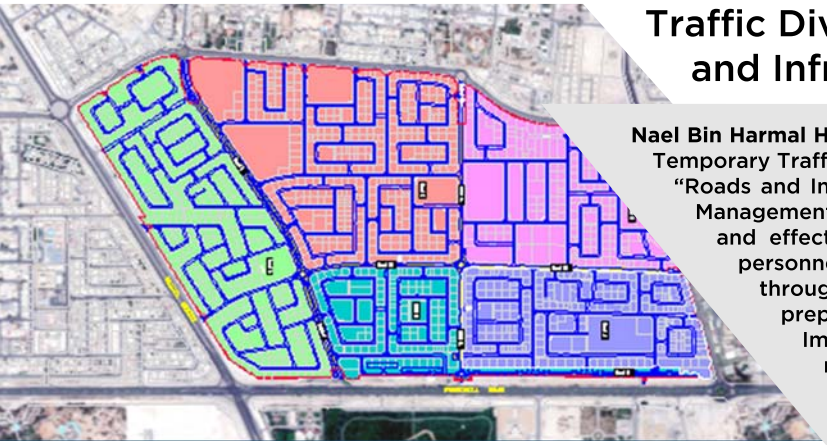
Traffic Management Plans for IDRIS MTS01 and MTS03

Bouygues-UCC JV, an unincorporated Joint Venture between Bouygues Travaux Pubmics SA, Urbacon Trading & Contracting, CSM Bessac and Bouygues Construction, appointed TraffiConsult to develop Temporary access design and Temporary Traffic Management Plan for 2 contracts of Ashghal's IDRIS Project. The works under the contract, covers Northern Branches of the Main Trunk Sewer Network. The MTS01 contract segment of the Main Trunk Sewer (MTS01) is approximately 16.34 KM in length and is divided into three branches. MTS01 comprises 9 discrete work areas located along Al Matar Street, E-Ring Road and Madeed Street. The access shafts and work shafts under MTS01 are mostly located in developed and busy areas, some of them are located very close to existing or proposed highways. The MTS03 contract segment of the Main Trunk Sewer (MTS03) is approximately 14.3 KM in length. MTS03 contract comprises 8 discrete work areas. All the 9 shafts under the MTS03 contract are located on open land. The access and detour design and Traffic Management plans are prepared in accordance with Qatar Highway Design Manual, new Work Zone Traffic Management Guide and Qatar Construction Specifications.

East Corridor Expressway (P011) Traffic Detour Design and Network Impact Assessment



China Harbour Engineering Company (CHEC) appointed TraffiConsult to develop detour design, temporary traffic management plans and area-wide network impact assessment to facilitate the construction of Ashghal's East Corridor Project (P011). Project P011 involves the construction of a new 8 to 10 lane expressway and 4 interchanges. The new interchanges will provide new access to other key roads and residential areas such as Al Matar Street, Najma Street Extension, Barwa Access Road and the new Al Wakra Bypass. TraffiConsult's scope involves preparation of area wide Network Impact Assessment Desktop Study and VISSIM modelling for verifying and validating impact due to proposed diversion and preparation of detailed road design of approximately 6-7km long, two to three lanes of divided temporary road, with temporary drainage and street lighting design. The scope also included the detailed design of one new temporary traffic signal junction and amendment and re-configuration/timing of three existing signalized junctions. The scope also included preparation of temporary sub-diversion designs and tie-in works and assisting CHEC in getting approvals from authorities including Ashghal O&M and Traffic Police.



Traffic Diversion Plans for Construction of Roads and Infrastructure in West Muaither (DW002)

Nael Bin Harmal Hydroexports Qatar LLC (NBHH) appointed TraffiConsult to develop Temporary Traffic Diversion Plans to facilitate the construction of Ashghal's DW002 "Roads and Infrastructure in West Muaither" project. The purpose of the Traffic Management/ Traffic Diversion is to ensure that the work can be managed safely and effectively by providing safe work zone environment to the working personnel while maintaining traffic movement safely and smoothly throughout the work site. TraffiConsult's Scope of Work includes preparation of TDP plans for 5 phases and conducting limited Traffic Impact Study to validate impact of proposed diversion on surrounding road network due to upgradation works. The detour design and Traffic Management plans are prepared in accordance with Qatar Highway Design Manual, new Work Zone Traffic Management Guide and Qatar Construction Specifications.

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HIGHWAY DESIGN

Road Design & Temporary Traffic Management Projects

Traffic Management Plan for Qrail Station at Hamad International Airport (HIA)

Khatib and Alami (K&A), appointed TraffiConsult to develop temporary traffic management plans to facilitate the construction of underground Q-Rail station near Hamad International Airport. TraffiConsult's scope included preparation of Temporary Traffic Management plan; suggest improvements to existing access arrangement and assist contractor in getting approval from HIA and traffic police. The new temporary traffic management plan was developed with a section of the road closed to facilitate the construction activities. The temporary access design and traffic management drawings were prepared in accordance with Qatar Highway Design Manual, Qatar Work Zone Traffic Management Guide and Qatar Construction Specifications.

Traffic Management Plan for Enabling Works of West Bay Metro Station

HSP Enabling JV, through **Khati and Alami** appointed TraffiConsult to develop detour design and temporary traffic management plans (TMP); to facilitate enabling works, i.e. re-locating existing utilities, in and around proposed West Bay Metro Station area in West Bay, Doha, Qatar. The enabling works involved re-location of existing utilities such as TSE, Water lines, sewer lines, storm water, power lines, fiber optic cables such as Ooredoo, Vodafone etc, present at West Bay Metro Station site. TraffiConsult's Scope of Work included preparation of detailed geometric design of temporary detour road and temporary traffic management plans to facilitate utility diversion work. The enabling work was carried out in four Phases, i.e. Phase 1A, 2, 3 and 4. The Phase 1A included preparation of median by closing both sides inside lanes. The Phase 2 included shifting of northbound carriageway into median. The Phase 3 included shifting northbound carriageway back to normal and the Phase 4 included shifting southbound carriageway into median.

Traffic Management Plan for Mesaieed Roadways Upgrade

Al Jaber Engineering/KEO appointed TraffiConsult to develop Temporary Traffic Management Plan (TMP) to facilitate construction of new roads and re-construction of existing roads within the community area of Mesaieed Industrial City (MIC) in State of Qatar. The project covers approximately 35km of roads, varying from dual arterial to residential streets, including construction of signalized junction. TraffiConsult scope started by preparing a TMP plan divided in to nos. of phases, per MIC requirement, to safely allow Al Jabber / KEO to complete project as per schedule. Once the overall TMP was approved by MIC, TraffiConsult prepared typical & detailed drawings showing plans/cross sections identifying existing conditions and proposed conditions for the traffic diversions, phasing and access/egress arrangements during the whole period of the contract. The Traffic Management plans were prepared in accordance with MIC Traffic Management Guide and approval was obtained from QP and MIC.

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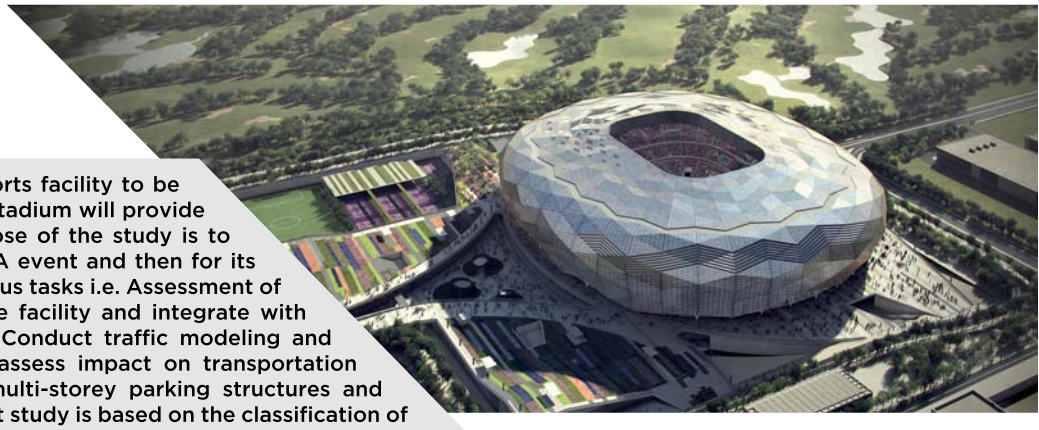
TRAFFIC AND TRANSPORTATION ENGINEERING

Traffic Studies & Master Planning Projects

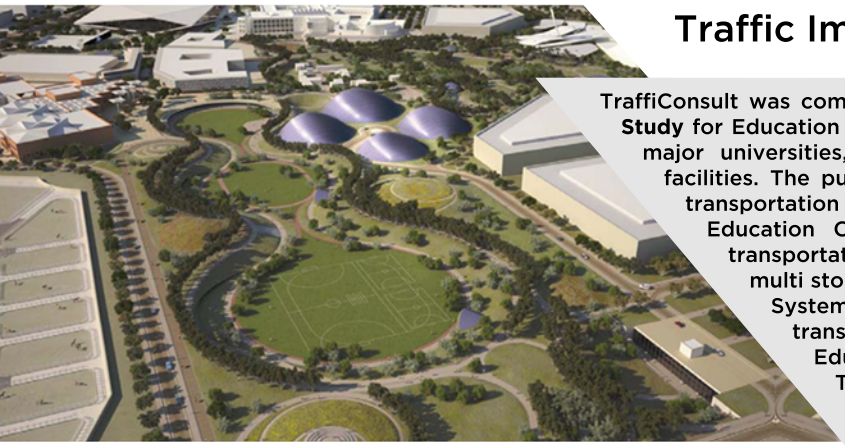
New Port Project

TraffiConsult was commissioned by **WorleyParsons** in coordination with **The New Port Steering Committee** to undertake a **Traffic Impact Study** for the proposed New Port in the State of Qatar. The new port will augment the growing logistic need for the country. It has been constructed at an entirely new coastal site located to the north of the Mesaieed Industrial City and south of Al Wakra. The port is planned for total GFA of 1,781,640 m^2 on land area of 13,758,000 m^2, which will be developed in phases. A comprehensive Traffic Impact Study (TIS) covering several elements was carried out by TraffiConsult and approved by Ministry of Transport and Communications - MOTC (formerly, MMUP). The TIS included development plan review, conducting traffic surveys and analysis, future traffic forecasting using strategic TMPQ VISUM Model, Operational Analysis, Micro-simulation of Traffic Operations and proposing the mitigations in order to maintain efficient traffic operations during the design life.

Traffic Impact Study for 2022 FIFA World Cup, Qatar Foundation Stadium



Qatar Foundation FIFA stadium is an iconic sports facility to be constructed for the 2022 FIFA World Cup. The stadium will provide forty five thousand seating capacity. The purpose of the study is to assess the transportation network for 2022 FIFA event and then for its Legacy use. The project involved preparing various tasks i.e. Assessment of multimodal transportation network to serve the facility and integrate with general road network for event management, Conduct traffic modeling and pedestrian modeling for various scenarios to assess impact on transportation network, parking management by providing multi-storey parking structures and temporary transit parking facilities. The transport study is based on the classification of spectators, Traffic management for VIP route and parking based on FIFA standards for security, accessibility and traffic standards. Transportation network was assessed for entire Education City road network to optimize the travel time for all modes of transportation.



Traffic Impact Study for Education City

TraffiConsult was commissioned by **Qatar Foundation (QF)** to conduct **Traffic Impact Study** for Education City in Doha, Qatar. Education City is a mixed used campus with major universities, student residences, research hospital and other recreations facilities. The purpose of the traffic study is to provide a robust and adequate transportation network required for the fast growing development of the Education City. The project involved review of existing and proposed transportation infrastructure in Education city which includes road network, multi storey parking structures, metro, long distance rail and People Mover System (PMS). The purpose of the study is to assess the multi modal transport network for its adequateness for the future development of Education City. The proposed study will integrate Education City Transport network to public roads and transport facilities in the neighbourhood. In order to reduce the environmental impact of traffic, public transit use has been encouraged by providing four multi storey parking facilities and PMS for private car users.

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TRAFFIC AND TRANSPORTATION ENGINEERING

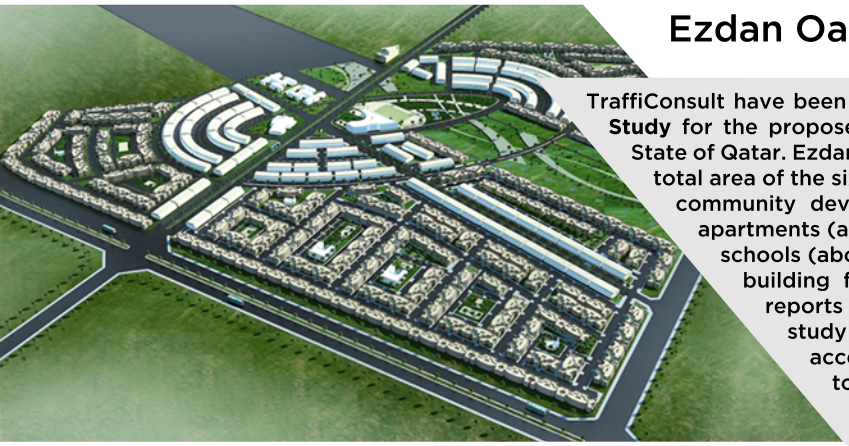
Traffic Studies & Master Planning Projects

Professional Consultancy Service for Traffic Data Collection in Qatar

TraffiConsult was awarded a three year contract by **Public Works Authority** (Operations and Maintenance Division) to conduct various traffic surveys, analysis and archiving the data. The contract further includes supply, installation and maintenance latest version of the following software: Sidra intersection, Sidra Trip, Highway Capacity Software / manual, Transmodeler and software training to PWA engineers. The professional service of traffic engineers on an ad hoc basis has been also provided by TraffiConsult. The traffic surveys were conducted for several hundred hours on various locations (Roadway links and junctions) spanned across State of Qatar and includes Automatic Traffic Counts, Manual Turning Movement Counts, Manual Classification Counts, Saturation Flow Surveys, Travel Time and Delay Survey, Pedestrian Counts, Headway and Gap Acceptance Surveys, Spot Speed Studies and Existing Queue and Backup, etc.

Road Marking Manual and Road Marking Design for Major Corridors across Jeddah

Jeddah Municipality intends to prepare a **Pavement Marking Manual** for the City of Jeddah and to prepare the design and Contract Documents for the major corridors across Jeddah which shall enable the Amana to execute these works through construction bids. Jeddah Municipality are seeking to improve the safety of the road network by producing a consistent and uniform road markings design manual that can be applied across the road network of Jeddah. The guidelines of the design manual will provide the citizens of Jeddah a safer road network by clearly defining the carriageway and intersection and thereby encouraging lane discipline and making best use of the available road. The scope consists of three stages which include: carrying out the study of existing road markings for 14 major corridors of Jeddah City, preparation of the "Jeddah Design Manual for Road Markings" and preparation of road marking design drawings for the 14 major corridors of Jeddah City.



Ezdan Oasis Residential Community TIS

TraffiConsult have been appointed by **SAK Holding Group** to conduct the **Traffic Impact Study** for the proposed Ezdan Oasis Residential Community Development in Wukair, State of Qatar. Ezdan Oasis development is composed of six plots numbered 1 to 6. The total area of the six plots is 964,420 m^2. Ezdan Oasis will be a mixed used residential community development. The proposed development will provide residential apartments (about 8,800 units), shops (about 600 units), one hypermarket, two schools (about 2800 student capacity), one Jumma prayer mosque and office building for administration. The project involves preparation of various reports for different aspects of traffic analysis. The purpose of the traffic study is to integrate the internal and external road netwrok, optimise accesibility, parking demand / supply and to provide adequate access to public facilities such as schools, hypermarket and commercial shops.

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TRAFFIC AND TRANSPORTATION ENGINEERING

Traffic Studies & Master Planning Projects

Qatar Economic Zone 1 (QEZ1)

Qatar Economic Zone 1 (QEZ1) is a 4.1 km² site to the south west of Hamad International Airport. This project is made up of two parcels divided by the continuation of Doha Expressway. High technology industries, aviation supported industries, assembly operations, logistics, air parcel services, food processing, tools & machinery, commercial offices and support facilities. **Dorsch Qatar** is the appointed consultant for the design of the QEZ-1 external accesses and to supply ASHGHAL with a Tender Documents package for Design & Build Tender. TraffiConsult has been commissioned by Dorsch Qatar to do two major tasks. The first task is to review master plan documents and traffic studies while the second task is to validate and update of transport system components. These tasks are subdivided to include Traffic Support during Design and Master planning for one of the parcels, TIS amendment after external accesses/ internal road network modifications, Traffic Signals Engineering, Traffic Management Plan and Intelligent Transportation systems.

Qatar Economic Zone 3 (QEZ3)

Qatar Economic Zone 3 (QEZ3) is a 34 km² site north of Mesaieed Industrial City (MIC) and adjacent to the New Port Project (NPP). This project will focus on Logistics, Metals, Petrochemicals, Building Materials, Food Processing, Tools & Machinery, Transportation and Automotive industries and other. **Worley Parsons Qatar (WPQ)** have been commissioned by MANATEQ to undertake master planning of the Qatar Economic Zone 3 (QEZ3) development. As part of the commission, WPQ are required to undertake a Traffic Impact Study for the QEZ3 development. WPQ appointed TraffiConsult as sub-consultant to undertake the detailed Traffic Impact Study (TIS) for the QEZ3 development. The outcomes of TIS were based on very wide study area and it recommended several mitigations for horizon years 2017 (opening), 2021 and 2031.

MOI Immigration Headquarters TIS

TraffiConsult has been commissioned by CEG International to conduct a Traffic Impact Study (TIS) for the proposed 'Immigration Headquarters' on a vacant land adjoining Al Tarfa Street, located in Wadi Al Banat area of Doha, Qatar. The total plot area is 59,846 m2 which predominantly will serve as Immigration Centre / Visa Office for the State of Qatar. It also includes a club house exclusively for MOI employees. Once fully built, the project is anticipated to generate around 3300 two way trips in critical peak hour. The traffic analysis suggested several mitigations in the project study area, in order to maintain the desired LOS criteria as specified by MOTC-LTPD.

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