

ADA – Riyadh Metro Rail Development – Saudi Arabia

Construction Project Profile

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1. Key Statistics			
Project Value	USD 23000.00 million	Funding	Public/Private
Project Type	Parent	Address	
Construction Type	New	City	Riyadh
Profile Status	Live	Country	Saudi Arabia
Project Stage	Execution	Location Type	OnShore

2. Key Dates	
Announcement Qtr	Q2 2003
Construction Start Qtr	Q2 2014
Construction End Qtr	Q4 2018

3. Sector	
Primary Taxonomy	Secondary Taxonomy
Mass Rapid Transit / Metros	Railway Tunnel

4. Operating metrics	
Length (Kilometers)	176.00 Kilometers (km)
Stations (Number)	85.00 NA

5. Tender Information						
Contract Name	Contract type	Contract value (US\$m)	Tender Issue Date	Tender Submission Date	Contract Award Date	Contract Awarded to
Construction Contract (Electro-Mechanical Services)	Others	332.00	Q2 2016 (Estimated)	Q2 2016 (Estimated)	Q3 2016	Fomento de Construcciones y Contratas S.A.
Construction Contract (Line 4, 5 and 6)	Design Build	7819.00	Q3 2012	Q1 2013	Q3 2013	Alstom SA , Fomento de Construcciones y Contratas S.A. , Freyssinet Saudi Arabia , Samsung C&T Corporation , Setec , Strukton Rail , TYPSA Group
Construction Contract (Tracks Line 1 and 2)	EPC	161.00	Q2 2015 (Estimated)	Q3 2015 (Estimated)	Q3 2015	Larsen and Toubro (L&T) Engineering and Construction
Construction Contract (Line 1 and 2)	Design Build	9447.00	Q3 2012	Q1 2013	Q3 2013	AECOM , Almabani General Contractors , Bechtel Corporation ,

5. Tender Information						
Contract Name	Contract type	Contract value (US\$m)	Tender Issue Date	Tender Submission Date	Contract Award Date	Contract Awarded to
						Consolidated Contractors Company , Siemens AG
Construction Contract (Line 3)	Design Build	5211.00	Q3 2012	Q1 2013	Q3 2013	Ansaldo STS S.p.A. , Bombardier Transportation GmbH , Larsen and Toubro (L&T) Engineering and Construction , Nesma and Partners Contracting Co Ltd , Salini Impregilo S.p.A.

6. Scope
<p>The project involves the construction of a metro rail network across various locations with an approximate length of 176km and including 85 stations in Riyadh, Saudi Arabia.</p> <p>The US\$23,000 million project includes the following:</p> <ol style="list-style-type: none"> 1. Construction of a 38km long metro rail with 22 stations under Line 1 2. Construction of a 25km long metro rail with 13 stations under Line 2 3. Construction of a 41km long metro rail with 22 stations under Line 3 4. Construction of a 29km long metro rail with 8 stations under Line 4 5. Construction of a 13km long metro rail with 10 stations under Line 5 6. Construction of a 30km long metro rail with 8 stations under Line 6 7. Construction of 85 stations 8. Installation of signaling system 9. Installation of safety and security system

7. Description
<p>The Arriyadh Development Authority (ADA) is undertaking the Metro Rail project in Saudi Arabia.</p> <p>The project involves the construction of a metro rail network across various locations in Riyadh. The metro will have six main routes covering a total length of approximately 176km and include 85 stations being implemented on a design-build basis. The 176km-long system will have 85 stations in total, including underground, ground level and elevated stations.</p> <p>Six routes will be designated by different colors: Line 1 (Blue), Line 2 (Red), Line 3 (Orange), Line 4 (Yellow), Line 5 (Green), Line 6 (Purple).</p> <p>The first line (Line 1) will run in the North-South direction alongside and under Olaya and Bat’ha streets. The line will start from the north at Prince Salman bin Abdulaziz Street and end at Hayer Road in the south, 38km-long with 22 stations.</p>

7. Description

The second line (Line 2) will run in the East-West direction, from King Abdullah Road to King Fahad Stadium, 25km-long with 13 stations.

The third line (Line 3) will run in the East-West direction along and under portions of the Al-Madinah and Al-Munawwararh roads, between Jeddah Expressway and the Second Ring Road near the National Guard Complex at Khashm el A'an area, for a length of 41km with 22 stations

The fourth line (Line 4) will run north to south alongside Prince Saud bin-Muhammad bin Muqrin Street, from the King Khaled International Airport to the new King Abdullah Financial District (KAFD), for a length of 29km with 8 stations.

The fifth line (Line 5) will run in the North-South direction alongside and under King Abdulaziz Street. The line will run between KAFD and Bat'ha Street, for a length of 13km with 10 stations.

The sixth line (Line 6) will run in an East-West direction along Abdulrahman bin Aouf Street and Sheikh Hassan bin Hussein bin Ali Street. It will extend between Prince Saad bin Abdulrahman Street and King Abdullah road, 30km with 8 stations.

The project is being funded through the Public Investment Fund.

The bids for the preliminary design consultancy contract were submitted in April 2004. Beirut-based Dar Al Handasah Shair and Partners and France's Egis Rail secured the contract in 2006.

Preliminary designs, a feasibility study, traffic study, environmental impact assessment, cost estimate and performance design specifications have already been drawn up by design consultant Dar Al Handasah Shair and Partners. The detailed designs were completed in January 2010.

In April 2012, the Saudi Cabinet approved the plans to develop a new public transport network in Riyadh.

On May 15, 2012, ADA issued the design-build tenders with the submission deadline on June 20, 2012. Around 38 consortia submitted bids to the ADA in June 2012.

On July 26, 2012, four international consortia were shortlisted to offer financial and technical bids to implement the project. The consortia are made up of a total of 33 companies from 15 countries.

In September 2012, request for proposal (RFP) was invited for the shortlisted bidders (four consortia), to submit their financial and technical bids by December 1, 2012.

However, upon the request of shortlisted bidders, the ADA extended the tender submission deadline to February 20, 2013.

The four consortia were prequalified for the whole metro project.

On February 20, 2013, ADA received bids from three groups out of four consortia.

In April 2013, due to the complexity of the project, Strabag (one among the four consortia) pulled out of a bid to build the project.

In May 2013, ADA selected the winning designs for Riyadh Metro's three main stations. For the KAFD station, Zaha Hadid Architects was appointed as an architect, Buro Happold as structural services, transport and civil engineer, Davis Langdon as cost consultant, NewTecnica appointed as façade consultant and BFG International as the roofing contractor. KAFD station will serve the lines 1, 4 and 6 of the metro.

Gerber Architekten was appointed as an architect, Bollinger Grohmann as the structural engineer, bw-engineers as building services engineer, Drees & Sommer AG as the planning consultant, Currie & Brown Holdings Ltd as the cost consultant, Karajan Ingenieure GmbH as the traffic consultant for the Olaya Metro Station. The station will be located at the intersection of the Metro Lines 1 and 2.

7. Description

Snohetta was appointed as an architect for Downtown Metro Station. The station will act as a transport hub for the metro lines 1 and 3.

On July 29, 2013, the design and build contract for the lines 1 and 2 was awarded to BACS consortium led by Bechtel and including Almagbani General Contractors, Consolidated Contractors Company, Aecom, Vinci SA and Siemens. The contract value is US\$9,447 million.

The US\$5,211 million design and build contract for Line 3 was awarded to ArRiyadh New Mobility consortium led by Salini Impregilo. The consortium comprises two groups named Electrical Work Group and Civil Work Group and also includes Hyder Consulting, Idom and Worley Parsons. Electrical Work Group comprising Ansaldo STS and Bombardier Transportation will supply electrical and mechanical equipment. Civil Work Group comprising Salini-Impregilo, Larsen & Toubro and Nesma & Partners will deliver infrastructure works, Idom and Worley Parsons as Design Consultants.

The US\$7,819 million design and build contracts for Line 4, 5 and 6 were awarded to the FAST consortium led by Spanish construction group FCC. The consortium comprises Samsung, Alstom, Strukton, Freyssinet Saudi Arabia, Typsa and Setec. There are 26 stations involved in the three lines.

Dogus Insaat Ve Ticaret AS has been appointed as sub-contractor for tunneling works.

In August 2013, EGIS, SYSTRA and Parsons joint venture was awarded the project management and construction (PMC) contract. The contract covers project management and construction supervision for Lines 1, 2 and 3.

On August 28, 2013, Louis Berger and Hill International joint venture was awarded the project management and construction (PMC) contract. The contract covers design and construction deliverables through the project life-cycle for Package 3, which consists of Line 4, 5 and 6.

On October 8, 2013, WS Atkins plc was awarded the US\$120 million design contract for the Line 4, 5 and 6.

On October 10, 2013, Siemens was awarded the US\$2,020 million contract to supply 74 metro trains and the complete signal and communications equipment on Line 1 and 2 of the project.

On April 4, 2014, the construction works commenced.

On October 13, 2014, Advanced Construction Technology Services (ACTS), a consulting organisation specializing in construction materials and geotechnical engineering was awarded the geotechnical survey contract.

On October 27, 2014, Bombardier presented final design to ADA. Bombardier will supply 47 two-car driverless train sets for Line 3.

On January 5, 2015, ADA awarded Indra a US\$366 million contract to provide fare collection and access control systems for Riyadh's future network of six metro lines and 1,000 buses.

On January 29, 2015, Voestalpine appointed as supply contractor for rails and turnouts for the metro lines 1 and 2. Voestalpine Schienen GmbH will provide heat-treated premium rails, and Voestalpine VAE Group will deliver turnouts and signaling technology.

On March 16, 2015, BACS consortium appointed Eversendai Corporation Bhd to construct the East, North and South Depots of Line 1 and Line 2 of the proposed project. The scope of works includes connection design, supply, fabrication, erection of steel work, application of intumescent fireproofing, includes complete envelope cladding works for roofing and walling.

Salcef – Rhomberg JV has been appointed as sub-contractor of Line 3.

In May 2015, tunneling work commenced. Seven tunnel boring machines were used for the project to create tunnels of 35km in length at a depth of 30m.

7. Description

In July 2015, tunneling works commenced on Line 3.

On September 1, 2015, Larsen and Toubro (L&T) Engineering and Construction was appointed as the contractor for the for track construction on the first two lines worth US\$161 million.

On October 7, 2015, FCC Consortium completed the drilling work on the first tunnel section of Line 5 (Green line).

In October 2015, 21% of construction works completed.

On November 15, 2015, Dayton Superior Corporation won the Formwork Supply Contract for Line 1 and Line 2.

On June 8, 2016, ADA completed the tunnel excavation works for the Line 5.

In June 2016, 36% of construction works completed.

On July 22, 2016, FCC was awarded the US\$332 million electromechanical installation contract.

On January 10, 2017, Alstom delivered the first series of train sets for Riyadh metro. The complete order of train sets is expected to be delivered in the fourth quarter of 2018.

In January 2017, the excavation works of Line 3 has been completed.

In February 2017, 48% of construction works completed.

On March 6, 2017, KONE Corporation won the elevator and escalator supply contract for Line 3. The order will comprise 262 escalators and 156 KONE elevators.

Construction works are underway and the entire project is scheduled to be completed by the fourth quarter of 2018.

Stakeholder Information:

Planning Authority: Ministry of Transport, Saudi Arabia

Design Consultant: Dar Al Handasah Shair and Partners, Egis Rail

Design Contract (Line 4, 5 and 6): WS Atkins

Architect (KAFFD station): Zaha Hadid Architects

Architect (Olaya Metro Station): Gerber Architekten

Architect (Downtown Metro Station): Snohetta

Structural, Services, Transport and Civil Engineer (KAFFD station): Buro Happold

Roofing Contractor (KAFFD station): BFG International

Structural and Services engineer (Olaya Metro Station): Bollinger Grohmann, bw-engineers

Cost Consultant (KAFFD station): Davis Langdon

Automation Contract (Fare collection and access control systems): Indra

Facade Consultant (KAFFD station): NewTecnic

Supply Contract (Line 1 and 2): Siemens

Supply Contract (Line 1 and 2): Voestalpine

Elevator Supply Contract (Line 3): KONE Corporation

Formwork Supply Contract (Line 1 and 2): Dayton Superior Corporation

Construction Contract (Depots: Line 1 and 2): Eversendai Corporation Bhd

Design Build Contract (Line 1 and 2): BACS consortium led by Bechtel

Design Build Contract (Line 3): ArRiyadh New Mobility consortium led by Salini Impregilo

Design Build Contract (Line 4, 5 and 6): FAST consortium led by Spanish construction group FCC

PMC Contract (Line 1, 2 and 3): Parsons, EGIS, and SYSTRA

PMC Contract (Line 4, 5 and 6): Louis Berger and Hill International

Electromechanical Installation Contract: FCC

Contractor: (Track for first two lines): L&T

Sub-contractor (Line 3): Salcef – Rhombert JV

Planning Consultant (Olaya Metro Station): Drees & Sommer AG

Cost Engineer (Olaya Metro Station): Currie & Brown Holdings Ltd

7. Description

Traffic Consultant (Olaya Metro Station): Karajan Ingenieure GmbH
 Sub-Contractor (Tunneling Works): Dogus Insaat Ve Ticaret AS

8. Latest update

April 2017 – Construction works are underway.

March 6, 2017 – KONE Corporation won the elevator and escalator supply contract for Line 3.

February 2017 – 48% of construction works completed.

January 2017 – Excavation works of Line 3 completed.

January 10, 2017 – Alstom delivered the first series of train sets for Riyadh metro.

December 2016 – Construction works are underway.

July 2016 – Construction works are underway.

July 22, 2016 – FCC was awarded the US\$332 million electromechanical installation contract.

June 2016 – 36% of construction works completed.

June 8, 2016 – ADA completed the tunnel excavation works for the Line 5.

May 2016 – Construction works are underway.

November 2015 – Construction works are underway.

October 2015 – 21% of construction works completed.

October 7, 2015 – FCC Consortium completed the drilling work on the first tunnel section of Line 5.

September 1, 2015 – L&T was appointed as the contractor for the track construction on Line 1 and 2.

July 2015 – Tunneling works commenced on Line 3.

May 2015 – Tunneling works commenced.

March 16, 2015 – BACS consortium appointed Eversendai Corporation Bhd to construct the East, North and South Depots of Line 1 and Line 2.

February 2015 – Construction activities are underway.

January 29, 2015 – Voestalpine appointed as supply contractor for Line 1 and 2.

January 2015 – ADA awarded Indra a US\$366 million contract to provide fare collection.

December 2014 – Construction works are underway.

October 27, 2014 – Bombardier presented final design to ADA for Line 3.

October 13, 2014 – ACTS appointed as the geotechnical survey contractor.

8. Latest update

July 2014 – Construction works are underway.

April 4, 2014 – Construction works commenced.

October 10, 2013 – Train supply and signal and communications equipment contract awarded to Siemens.

October 8, 2013 – Design contract for Line 4, 5 and 6 awarded to WS Atkins plc.

August 28, 2013 – PMC contract for Line 4, 5 and 6 awarded to Louis Berger and Hill International joint venture.

August 2013 – PMC contract for Line 1, 2 and 3 awarded to EGIS, SYSTRA and Parsons joint venture.

July 29, 2013 – Design and Build contracts awarded to BACS consortium, ArRiyadh New Mobility consortium and FAST consortium.

May 2013 – ADA selected the winning designs for Riyadh Metro's three main stations.

April 2013 – Due to the complexity, Strabag pulled out of a bid to build the project.

February 20, 2013 – ADA received bids from three groups out of four consortia.

November 18, 2012 – ADA extended the submission date to February 20, 2013.

September 25, 2012 – RFP invited for the shortlisted bidders (four consortia), to submit their financial and technical bids by December 1, 2012.

July 26, 2012 – Four international consortia were shortlisted to offer financial and technical bids to implement the project.

June 2012 – Around 38 consortia submitted bids to the ADA.

May 15, 2012 – ADA issued design build tenders with submission deadline as June 20, 2012.

April 2012 – Cabinet approved the plans to develop a new public transport network in Riyadh.

January 2010 – Detailed designs completed.

2006 – Beirut-based Dar Al Handasah Shair and Partners and France's Egis Rail secured the preliminary design consultancy contract.

April 2004 – The bids for the preliminary design consultancy contract submitted.

Q2 2003 – ADA announced plans to undertake the Riyadh Metro Rail project in Saudi Arabia.

9. Background

The metro project is part of Riyadh's Public Transport Project (RPTP) plan that was approved by the Council of Ministers on April 23, 2012. The plan has been prepared by the High Authority for the development of the city of Riyadh.

The project is also known as 'King Abdul Aziz Public Transportation Project'.

The current daily traffic demand is 7.4 million traffic trips, out of which almost 90% is met by private automobile, the daily demand is expected to exceed 12 million traffic trips by the year 2030. This huge increase in traffic coupled with high

9. Background

dependence on the automobile has led to severe traffic congestion, especially during peak hours on the major roads of the city's transportation system.

In order to meet growing challenge of the rapid urban growth, the ADA, the City's planning body under the jurisdiction of High Commission for the Development of Arriyadh, has carried out a number of metropolitan strategic studies, with a sustainable public transportation system as a cornerstone, with the aim of reducing automobile dependence and significantly improving the level of service of the transportation system.

The Metro project once complete will incorporate six main routes covering a total length of about 176km. More than 73.4km of the metro in the capital would be underground. The underground tunnels are 41.7 percent of the total length of the project.

10. Key Contacts

Capacity	Company	Description	Address
Traffic Consultant	Karajan Ingenieure GmbH	(+49) 711 669940	Schloßstraße 54 Post Code: 70176 Country: Germany City: Stuttgart www.karajan.de
Supply Contractor	Siemens AG	(+966) 11 2778111	Business Gate, Building C-1
Supply Contractor	voestalpine AG	(+966) 114 733611	Al-Malaz, 2509 Nori Street Post Code: 12836 Country: Saudi Arabia City: Riyadh www.voestalpine.com
Structural Engineer	Bollinger und Grohmann GmbH	(+49) 69 2400070	Westhafenplatz 1 Post Code: 60327 Country: Germany City: Frankfurt www.bollinger-grohmann.com
Structural Engineer	Buro Happold Engineers Ltd.	(+966) 11 4191992	Office 515, 5th Floor Al Akariyah 2, Olaya Street Post Code: 11468 Country: Saudi Arabia City: Riyadh www.burohappold.com
Roofing Sub-Contractor	BFG International	(+973) 17 727063	
Project Owner	ArRiyadh Development Authority	(+966) 11 4883331	Arriyadh Development Authority Building, Amr Bin Umayya Al Damri Street, Embassies Area Post Code: 11614 Country: Saudi Arabia City: Riyadh http://www.ada.gov.sa/
Project Manager	Hill International, Inc.	(+966) 11 2079559, (+966) 540853964, (+971) 2 6277358	Butti Al Otaiba Bldg, 17th Floor
Project Manager	The Louis Berger Group Inc	(+966) 11 480661, (+971) 2 6455494	

10. Key Contacts			
Capacity	Company	Description	Address
Planning Authority	Ministry of Transport, Saudi Arabia (MoT)	(+966) 11 4043000	Malaz - Airport Road Post Code: 11178 Country: Saudi Arabia City: Riyadh www.mot.gov.sa
Planner	Drees & Sommer AG	(+49) 711 1317279	Obere Waldplätze 13 Post Code: 70569 Country: Germany City: Stuttgart www.dreso.com
MEP Sub-Contractor	Ansaldo STS S.p.A.	(+39) 010 655 2458	
MEP Sub-Contractor	Bombardier Transportation	(+1) 514 8619481	800 René-Lévesque Blvd. West Montréal, Québec
Management Contract	Egis Group	(+33) 1 30484400, (+33) 437724050	11, Central Avenue, CS 30530, Saint-Quentin-en-Yvelines Post Code: 78286 Country: France City: Guyancourt cedex www.egis-group.com
Management Contract	Parsons Corporation	(+966) 11 2172134	
Management Contract	SYSTRA S.A	(+971) 4 2940941	Arbift Tower, 8th Floor, Office 803-805 Al Baniyas Road, Deira Post Code: 75009 Country: United Arab Emirates City: Dubai www.systra.com
Installation Sub-Contractor	Fomento de Construcciones y Contratas S.A.	(+34) 934 964900	C/ Balmes, 36 Post Code: 08007 Country: Spain City: Barcelona www.fcc.es
Geotechnical Consultant	ADVANCED CONSTRUCTION AND TECHNOLOGY SERVICES	(+974) 446 01257	
Formwork Supply Contractor	Dayton Superior Corporation	(+1) 800 7453700	
Facade Consultant	Newtecnic	(+44) 20 77392227	12a Perseverance Works Hackney Road Post Code: E2 8DD Country: United Kingdom City: London www.newtecnic.com
Enabling Contractor	Dogus Insaat Ve Ticaret AS	(+90) 216 5381500	Cumhuriyet Cad. No:4, A Blok 34810 Kavacik-Beykoz Post Code:

10. Key Contacts			
Capacity	Company	Description	Address
			34810Country: TurkeyCity: Istanbulwww.dogusinsaat.com.tr
Elevators Supply Contractor	KONE Corporation	(+966) 12 2630055	
Design Consultant	Dar Al-Handasah Consultants (Shair & Partners) (U.K.) Limited	(+966) 11 2013001	King Fahd Rd., Olaya, Al-Mass Centre No. 802Post Code: 11421Country: Saudi ArabiaCity: Riyadhwww.dargroup.com
Design Consultant	Egis Rail Dubai	(+33) 381 853560	29, Avenue CarnotPost Code: 25000Country: FranceCity: Besanconwww.egis-group.com
Design Consultant	IDOM, Professional Services of Engineering	(+966) 11 2611493	
Design Consultant	WorleyParsons Limited	(+966) 13 8813775	Al-Jazirah Building, King Abdullah Bin Abdul Aziz RoadPost Code: 31952Country: Saudi ArabiaCity: Al Khobarwww.worleyparsons.com
Cost Engineer	Currie & Brown Holdings Ltd	(+44) 20 79209220	Dashwood House 69 Old Broad StreetPost Code: EC2M 1QSCountry: United KingdomCity: Londonwww.curriebrown.com
Cost Engineer	Langdon Seah Sdn. Bhd.	(+966) 11 2008686	4 Floor, 4 Tower, Tatweer TowerKing Fahd RoadPost Code: 58006Country: Saudi ArabiaCity: Riyadhwww.langdonseah.com
Contractor	AECOM	(+971) 241 09400	
Contractor	Almabani General Contractors	(+966) 11 4033701	Malaz DistrictPost Code: 11491Country: Saudi ArabiaCity: Riyadhwww.almabani.co
Contractor	Almabani General Contractors	(+966) 2 6516772	Malaz DistrictPost Code: 11491Country: Saudi ArabiaCity: Riyadhwww.almabani.co
Contractor	Alstom SA	(+33) 1 57069000	48, rue Albert DhalennePost Code: 93482Country: FranceCity: Saint Ouenwww.alstom.com

10. Key Contacts			
Capacity	Company	Description	Address
Contractor	Bechtel Corporation	(+966) 114 085100	
Contractor	Bombardier Transportation GmbH	(+39) 02 7262601	Via del Lauro, 3Post Code: 20121Country: ItalyCity: Milanowww.bombardier.com
Contractor	Consolidated Contractors Company	(+966) 11 4161907	King Abdul Aziz Road - Suleimaniya Area, Next to Old Airport FencePost Code: 11411Country: Saudi ArabiaCity: Riyadhwww.ccc.net
Contractor	Eversendai Corporation Berhad	(+971) 11 4944891	Street No.41, New Industrial AreaPost Code: 35283Country: United Arab EmiratesCity: Dohawww.eversendai.com
Contractor	Fomento de Construcciones y Contratas S.A.	(+34) 91 3595400	Federico, Salmon, 13Post Code: 28016Country: SpainCity: Madridwww.fcc.es
Contractor	Freyssinet Saudi Arabia	(+966) 12 6602365	4931 Suq Jiddah-ar-rawdah, Unit No.1Post Code: 23432-7420Country: Saudi ArabiaCity: Jeddahwww.fsa.com.sa
Contractor	Larsen and Toubro (L&T) Engineering and Construction	(+91) 44 22526000	
Contractor	Larsen Toubro Arabia LLC	(+966) 3 8328384	A-201, Mada Tower, Prince Turki Street,
Contractor	Nesma and Partners Contracting Co Ltd		Prince Majed StreetPost Code: 31952Country: Saudi ArabiaCity: Al Khobarwww.nesma-partners.com
Contractor	Salini Impregilo S.p.A.	(+39) 02 44422111	Via dei MissagliaPost Code: 97 - 20142Country: ItalyCity: Milanowww.salini-impregilo.com
Contractor	Samsung C&T Corporation	(+82) 2 21452114	1321 - 20
Contractor	Setec	(+33) 1 82516800	
Contractor	Strukton Rail	(+31) 30 2407200	
Contractor	TYPSA Group		
Contractor	Vinci SA	(+33) 2 38836264	Zac des Bichardières, 7 rue de la ForêtPost Code: 45400Country:

10. Key Contacts			
Capacity	Company	Description	Address
			FranceCity: FLEURY LES AUBRAISwww.vinci.com
Consulting Engineer	bw-engineers gmbh	(+49) 711 1317280	
Consulting Engineer	Hyder Consulting (UK) Limited	(+44) 20 30149000	Manning House 22 Carlisle Place LondonPost Code: SW1P 1JACountry: United KingdomCity: Londonwww.hyderconsulting.com
Civil Sub-Contractor	Salcef Costruzioni Edili e Ferroviarie S.p.A.	(+39) 06 416281	
Civil Sub-Contractor	Salcef Costruzioni Edili e Ferroviarie S.p.A.	(+39) 06 416281	
Automation System Supply Contractor	Indra Sistemas, S.A.	(+966) 502 717640	Al Khozama Center, 5th Floor Office 508 Olaya StreetPost Code: 11583Country: Saudi ArabiaCity: Riyadhwww.indracompany.com
Architect	Gerber Architekten	(+49) 231 9065	Tönnishof 9-13Post Code: 44149Country: GermanyCity: Dortmundwww.gerberarchitekten.de
Architect	Snohetta Design	(+47) 241 56060	Akershusstranda 21, Skur 39Post Code: N-0150Country: NorwayCity: Oslowww.snohetta.com
Architect	Snohetta Design	(+47) 241 56060	Akershusstranda 21, Skur 39Post Code: N-0150Country: NorwayCity: Oslowww.snohetta.com
Architect	WS Atkins plc	(+966) 12 6527534	
Architect	Zaha Hadid Architects	(+44) 20 72535147	10 Bowling Green LanePost Code: EC1R 0BQCCountry: United KingdomCity: Londonwww.zaha- hadid.com
Architect	Zaha Hadid Architects	(+44) 20 72535147	10 Bowling Green LanePost Code: EC1R 0BQCCountry: United KingdomCity: Londonwww.zaha- hadid.com
Source: Timetric			

11. General News, Project News		
Title	Publish Date	Description
University graduates to serve as volunteer ambassadors for Riyadh Metro	16-Apr-2017	University graduates from King Saud University and Princess Noura bint Abdulrahman University will serve as volunteer ambassadors for the Riyadh Metro project, as part of a recently launched campaign to introduce a public transport culture among the residents of the capital, according to the Riyadh Development Authority.
Tunnelling milestone for Riyadh Metro project	18-Nov-2016	<p>Construction of the longest Riyadh Metro line hit a new milestone with the breakthrough of a tunnel boring machine (TBM) at a major station.</p> <p>Leader of the ArRiyadh New Mobility (ANM) consortium Salini Impregilo oversaw the arrival of the machine – named Jazlah – at the Downtown Station site as it neared the end of its 5.</p>
Al Areehd plays key role in Riyadh Metro project	13-Jul-2016	Al Areehd plays key role in Riyadh Metro project :Saudi-based lifting solutions specialist Mohammad Abdullah Al Areehd recently deployed its Terex AC 500-2 all-terrain cranes for a major work in the \$22.5-billion Riyadh Metro project, one of the largest infrastructure projects in the world.
\$23bn Riyadh Metro could be finished ahead of schedule	15-Mar-2016	<p>Saudi Arabia's Riyadh Metro could complete slightly ahead of schedule in late-2018, according to Eng Anas Hamad Almousa, project manager at Arriyadh Development Authority (ADA).</p> <p>Almousa, who is ADA's project manager for Package 2, Line 3 at Riyadh Metro, told Construction Week that the low oil price has not affected progress at the project.</p>
Riyadh Development Authority (ADA) releases a new video showing construction progress on its new \$22.5bn metro development in Saudi Arabia.	11-Jan-2016	<p>Six lines covering 176km, 85 stations and 69 trains. The Riyadh Metro is the biggest infrastructure project in the world and this new 12-minute video takes you underground to see progress at this exciting project, which is set for completion in 2019.</p> <p>The multi-billion dollar contract is divided into three parts, awarded to three different consortia in 2013:</p> <p>Lines 1 and 2</p> <p>The BACS consortium led by Bechtel and including Alrabani General Contractors, Consolidated Contractors Company and Siemens is to design and build lines 1 and 2, totalling 63.3 km.</p>
First Alstom metro cars for Riyadh under construction	16-Nov-2015	<p>Production of the first of 69 two-car Metropolis trainsets for Riyadh metro lines 4, 5 and 6 has begun at Alstom's Katowice plant in Poland.</p> <p>Metro project promoter Arriyadh Development Authority expects to unveil a full-size mock-up of a trainset in Riyadh shortly, and is scheduled to take delivery of the first three completed Alstom trainsets in 2017.</p>
FCC consortium finishes first	07-Oct-2015	The consortium Fast, which is led by FCC Citizen Services Group and also comprises Samsung C&T, Alstom, Strukton, Freyssinet Saudi Arabia, Typsa and Setec, is responsible for

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Riyadh Metro tunnel section		<p>the construction of lines Four, Five and Six of the metro.</p> <p>FCC said these works represent a new milestone for the consortium after becoming the first team to reach a station having excavated the most distance of the tunnel so far - 1.</p>
ANM starts Riyadh Metro tunnelling work	10-Jul-2015	<p>ArRiyadh New Mobility Consortium (ANM) has started tunnelling works on the Orange Line of the 176-km Riyadh Metro.</p> <p>The consortium, which is led by Salini Impregilo, an Italian industrial group specialising in the construction and civil engineering business, includes Ansaldo STS of Italy, Larsen & Toubro of Italy, Nesma of Saudi Arabia and Bombardier of Canada.</p>
Riyadh Metro, Orange Line: TBM Launching Ceremony	08-Jul-2015	<p>Prince Faisal bin Bandar, Governor of Riyadh, has officially launched the giant Tunnel Boring Machine (TBM) named Jazlah to be used on the Orange Line of the Riyadh Metro currently under construction by the ArRiyadh New Mobility Consortium (ANM). Jazlah, 10 m in diameter and weighing approx.</p>
Fomento de Construcciones y Contratas : FCC begins construction of first Riyadh metro tunnel	08-May-2015	<p>FCC has started boring the first tunnel of the Riyadh metro. This forms part of the megaproject that was awarded to the FAST Consortium last year in which Citizen Services Group is the leading company in charge of the design and construction of Package 3, which covers lines 4 (yellow), 5 (green) and 6 (purple).</p>
Tunneling work begins on six Riyadh metro lines	03-May-2015	<p>Tunnel boring work has commenced on the \$22.5bn Riyadh Metro project in Saudi Arabia.</p> <p>Seven bespoke and purpose-built machines are currently being used to burrow beneath the Saudi capital as contractors construct six interconnecting lines to help carry commuters around the city.</p>
Giant tunnel-drilling machine for Riyadh metro launched	03-May-2015	<p>A giant tunnel-boring machine (TBM) for the Riyadh metro was launched in Riyadh recently.</p> <p>Launching the TMB at a meeting here, Riyadh Gov. Prince Faisal bin Bandar said it would speed up the metro work.</p> <p>Seven TMBs have been manufactured especially for the project, and will create tunnels of 35 km in length at a depth of 30 meters.</p>
Work on Riyadh Metro tunnel to start in 2 months	14-Feb-2015	<p>Work on the tunnel for the first line of the Riyadh Metro is expected to start after two months with the arrival of the spare parts of the tunnel boring machine (TBM) imported from Germany.</p>
Riyadh Metro opens career routes to Saudi graduates	19-Dec-2014	<p>The multibillion-riyal Riyadh metro project has already seen hundreds of Saudi graduates employed and trained, said Riyadh Gov. Prince Turki bin Abdullah bin Abdul Aziz.</p> <p>Prince Turki said those employed had graduated from</p>

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		universities abroad where they had studied under the King Abdullah Scholarship Program.
ADA lists Riyadh Metro benefits for residents	01-Dec-2014	ADA lists Riyadh Metro benefits for residents :The Arriyadh Development Authority (ADA) unveiled a host of new benefits of the Riyadh metro to the capital city's residents, in addition to what had earlier been announced.
Riyadh metro Orange Line train design revealed	27-Oct-2014	<p>Bombardier Transportation has presented the final designs for its Riyadh Metro Line 3 trains to Prince Turki Bin Abdullah Bin Abdulaziz, Governor of Riyadh and Chairman of project promoter the ArRiyadh Development Authority.</p> <p>Bombardier is to supply 47 two-car driverless trainsets for Line 3 (Orange) as a member of the ArRiyadh New Mobility Consortium.</p>
Construction begins on US\$22.5 billion Riyadh metro	04-Apr-2014	<p>Work on the 178km-long Riyadh metro has commenced with project officials estimating that the rail network should be completed by 2018</p> <p>Digging began at five junctions in Riyadh including for the metro stations at King Khaled International Airport, Al-Olaya Station, its control centre and a railway maintenance station.</p>
Riyadh metro project to start soon	01-Feb-2014	Riyadh region governor Prince Khalid bin Bandar announced Friday (January 31st) that work will begin within eight weeks on Riyadh's metro project, Saudi Arabia's Al-Riyadh daily reported.
73 km of Riyadh metro to be underground	24-Jan-2014	<p>More than 73.4 km of the metro in the capital would be underground.</p> <p>One of the world's largest metro projects, this automatic driverless network will be over 170 km and have 87 stations on six lines, and is scheduled for completion in 2018, said the High Commission for the Development of Riyadh (HCDR).</p>
Work on Riyadh Metro to start 'within few months'	02-Nov-2013	<p>Riyadh Gov. Prince Khaled bin Bandar has announced that the actual field work for the Riyadh Metro will begin within months, a local Arabic daily reported.</p> <p>The three coalitions for the project committed its implementation on time so that "everyone will see the work on this project within a few months," the report said.</p>
Construction of Riyadh Metro to begin in Q1 2014	31-Aug-2013	Work on the \$22.5bn (SAR: 84.4bn) Riyadh Metro will start in the first quarter of 2014, Ibrahim Al-Sultan, president of ADA and member of the High Commission for the Development of Arriyadh (HCDA).
Riyadh metro construction contracts awarded	29-Jul-2013	<p>Arriyadh Development Authority announced the winners of three turnkey contracts for the construction of a 176 km six-line driverless metro network in Riyadh on July 29.</p> <p>The overall budget for the metro is €16.3bn, making it one of the world's largest public infrastructure projects.</p>

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Riyadh Metro station designs revealed	22-May-2013	<p>The Arriyadh Development Authority (ADA) has selected the winning designs for Riyadh Metro’s three main stations.</p> <p>These iconic stations will transform Riyadh streets as they become the most visible elements of the city’s new world-class public transport system.</p>
Sine waves inspire Riyadh metro station design	20-May-2013	<p>SAUDI ARABIA: Riyadh metro promoter ArRiyadh Development Authority has awarded the contract to design a landmark station for King Abdullah Finance District to a consortium of Zaha Hadid Architects; structural, fire and services engineer Buro Happold; cost consultant Davis Langdon; and façade consultant NewTecnic.</p>
Riyadh's metro rail project inches closer to reality	20-Jan-2010	<p>Prince Salman Bin Abdul Aziz, Riyadh Governor, has revealed that the design work and studies carried out for the construction of the kingdom's ambitious metro rail project have been completed.</p>
Work set to begin on Riyadh metro project	13-Nov-2006	<p>Riyadh: Arriyadh Development Authority (ADA) is completing final preparations to implement the mega electric train project in the Saudi Arabian capital.</p>
Metro Planned for Riyadh	15-Jun-2003	<p>Efforts are under way to reduce congestion in the capital by establishing a metro system. The system, which will operate in two main areas of the capital, will be established by the Arriyadh Development Authority (ARD).</p>
Source: Timetric		

12. Appendix

About Timetric

Timetric is a premium information solutions provider focused on providing critical business intelligence on key global sectors and economies.

Our business spans four main areas:

Business Information:

Our business intelligence services provide powerful premium industry briefing and intelligence tools covering key global industries, market data, forecasts, opinion and analysis. We provide independent economic analysis and macroeconomic data targeted at the needs of institutions and corporate clients around the globe. Our focus is on providing unparalleled insight and data on emerging economies, delivered through an innovative and powerful software platform.

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