

**REFERENCE LIST**  
**LAUNCHING GANTRY (LG) For Segmental Bridges**

Update : August 2016

Country/Bridge project	Client	Length	Width	Main features	Delivery
<b>QATAR</b>					
Green Doha Metro	Saudi BinLaden Group - Porr - SPH JV	Single Bridge: 2.585km	10.60m	One(1) Overhead LG. Construction Type: Span by span segmental construction. Max. span 35m. Min. hor. radius 1000m. Superstructure : U type Precast-Girder Width of segment: 10.6 m. Max. height of segment: 2.20 m. Max. Segment weight: 50 t. Max. Span weight: 590 t.	2015 - 2016
<b>KUWAIT</b>					
Jahra Road Project	The Arab Contractors	4-Bridges (double bridges), Total Length: 9.6km	Total Width 25.55m	Three(3) Overhead LG Construction Type: Free Cantilever construction. Max. span 57m. Min. span 34.15m Min. hor. radius 1300m. Max. longitudinal slope : 5.94 % Superstructure: P.S.C. Box-Girder Width of segment: 13.60 m. Max. height of segment: 5.868 m. Max. Segment weight: 120 t.	2011 - 2016
<b>BAHRAIN</b>					
Isa Town Gate Project	Sungwon Corporation,	1.8 km	16 m	One(1) Overhead LG. Max. span 70m. Min. hor. radius 500m. Construction Type: Free Cantilever construction. Max. longitudinal slope : ± 4.5% Superstructure : Precast Segmental Box-Girder Width of segment : 16.0 m. Max. height of segment : 3.75 m. Max. Segment weight : 160 t	2007 - 2008
<b>MALAYSIA:</b>					
Middle Ring Road Package II (Missing Link) Kuala Lumpur	PERSYS Sdn Bhd Kuala Lumpur	Total 3.2 km	12.2 m	One(1) Overhead LG. Launching girder for Pre-cast element erection. Curves with min. radius approx. 500m. Max Span 45m. Single box section. Max. segment weight 90 t.	2000
Light Rail Transit 2, Kuala Lumpur	PATI Sdn Bhd Kuala Lumpur	Total 30 km	7.6 m	Five(5) Underlane LG Launching girders for the LRT 2 project in Pre-cast element erection. Min. hor. radius approx. 100 m. Max. span 36m. Single box section.	1994/95

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Light Rail Transit 2, Kuala Lumpur	PATI Sdn Bhd Kuala Lumpur	Total 30 km	7.6 m	One(1) Underlane LG Launching girders for the LRT 2 project in Pre-cast element erection. Min. hor. radius approx. 100 m. Max. span 63m, Single box section.	1994/96
Light Rail Transit 2, Kuala Lumpur	PATI Sdn Bhd Kuala Lumpur	Total 30 km	7.6 m	One(1) Underlane LG Launching girders for the LRT 2 project in Pre-cast element erection. Min. hor. radius approx. 100 m. Max. span 60m, Single box section.	1994/95
<b>SINGAPORE:</b>					
C 810, LRT systems Sengkang & Punggol New Towns	BBR Singapore	Total 20 km	8.1m - 12.1m	Two(2) Underlane LG Launching girder for the C810, LRT System in Singapore. Curves with min. hor. radius approx. 75 m. Max. span 37 - 40 m. Max. Segment weight 43 tons.	1999
<b>U.S.A.:</b>					
I-90/93 C19BI, Boston, Massachusetts	Modern Continental Cambridge, Massachusetts	4 km	12.1 m	One(1) Overhead LG. Overhead launching gantry for precast element erection and balanced cantilever construction. Single box section.	1998
Spaghetti Bowl I-15/US 95 Interchange, Las Vegas,	Walter & SCI Construction, Ltd. Seattle, Washington	4 km	11.6 m	One(1) Overhead LG. Overhead launching gantry for precast element erection and balanced cantilever construction. Max. span 49 /65 m, min. hor. radius 130m, Single box section.	1998
<b>BANGLADESH:</b>					
Paksey Bridge	MBEB Wuhan	1.9 km	18.0m	One(1) Overhead LG. Launching gantry for balanced cantilever construction. Max. span 109.5 m. Max. Segment weight 165 t.	2001
<b>THAILAND:</b>					
Wat Nakorn In Bridge	SRA	Several km		Design review of the overhead Launching gantries for balanced cantilever construction. Max. span 39.7 - 42 m. Max. Segment weight 80 t. 8 bridges, 94 spans.	2001

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<b>INDIA:</b>					
Badapur Elevated Highway	Hindustan Construction Co.		11.76 m	One(1) Overhead LG Max span wt. 886T. Max. segment wt. 70T. Max span length 46m. Wt. of LG 866T	2009 - 2012
Wazirabad Project, Delhi	Gammon (India) Ltd		10.2m to 13.3 m	One(1) Overhead LG Max span wt. 1050T, Max. Segment wt. 80T. Max span length 50m. Wt. of LG 740T	2009
Railway Bridge at Cochin	Afcons Infrastructure Limited	8 km	6.92 m	Beam Launcher for precast girder. I girder weight 250T, Span 40m U-girder weight 280T, Span 40m. Min. hor. radius 350m. Beam Launcher (BL) capacity 300T	2008
Bangalore Metro	Navayuga Engineering Co. Ltd.	3 km	8.8 m	One(1) Underlane LG Launching gantry for span by span precast viaduct erection. Max. Span 31m Min. hor. radius 200m, 450ton capacity.	2007
Delhi Metro	IJM (India) LTD.	32 m	10.8 m	Design review of the overhead Launching gantries.	2003
<b>CHINA</b>					
Guangzhou LRT Project	No. 4th Navigation Engineering Bureau	35m	9.3m	One(1) Underlane LG. Launching Gantry for span-by- span precast segmental construction. Span weight 490 tons, hor. radius 300m	2006 - 2008
Guangzhou LRT Project	No. 13th Bureau of Ministry of Railway	35m	9.3m	One(1) Underlane LG. Launching Gantry for span-by- span precast segmental construction. Span weight 490 tons, hor. radius 450m	2006
Guangzhou LRT Project	Guangdong 2nd Hydroelectric Engineering Bureau	35m	9.3m	One(1) Underlane LG. Launching Gantry for span-by- span precast segmental construction. Span weight 490 tons, hor. radius 600m	2005
Sifeng Project (Beijing interchange)	Beijing Gonglian	50 m	8-12 m	One(1) Overhead LG Overhead launching gantry for span-by-span precast viaduct erection. Max span 50m, min. hor. radius 150m, 900t capacity.	2003

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<b>KOREA</b>					
Uijeongbu LRT Project	CCL Korea	11km	7.5-8.5 m	Two(2) Overhead LG (LG#3 & LG#5) Type of construction : Span by span Simple & Continuous span) Span Length: 22-45m. Min. hor. radius 59m Max cross fall (super elevation) : +/-2.5% Deck width : 7.5~8.5 m. Deck height : 1.66~2.45 m. Segment weight : 57 Ton (max) Max. span weight : Approx. 500t (Continuous 45m.)	2009 - 2012
Mok Po Bridge	VSL Korea	1100m	22.8m	One(1) Overhead LG Overhead launching gantry for 2200T span-by-span precast viaduct construction/erection. Max span 60m, Min. hor. radius 1300m, single box section	2008 - 2009
Uijeongbu LRT Project	CCL – Korea	11 km	7.5-8.5 m	Two(2) nos. Overhead LG (LG#1 & LG#2) Max span, single span 35m. Min. hor. curve, special procedure 60m	2008
<b>SPAIN</b>					
Asturias Viaduct LG to MSS	FCC SA, Spain	approx. 1.3km	14m	One(1) Overhead LG. Launching gantry for precast erection and and cantilever construction. Max span 75m, Min. hor. radius 700m, Single box section.	2008 - 2009