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Bridge Technology History

2010

- 02. 'Bridge Technology Co.,Ltd' established
- 03. License acquisition on specialized construction business operator (Reinforced concrete)
- 10. Selected to Venture enterprise (Korea Technology Finance Corporation)

2011

- 03. Establishment of company-affiliated R&D centers
- 07. Concluded research agreement with Ministry of land, Infrastructure and Transport, Korea Agency for Infrastructure Technology Advancement on curved PSC Box girder bridge
- 08. First 'SB20 Railway bridge' constructed.
(Seoul-Pusan HighSpeed Railway roadbed construction 6-3 area)
- 10. First 'Edge Girder Bridge' constructed (Jooksanbo YeongSanGag river)

2012

- 05. Curved PSC Box Girder Bridge (SB40) Construction test
- 09. EX-Girder Non-Exclusive License agreement (Korea Expressway Corporation)
- 10. Edge Girder Bridge (Railway bridge) Construction test (Korea Railroad Research Institute)

2013

- 06. Multi PSC Box Girder Bridge (SB20) first order obtained
(Hwajukcheon flood repair site, First 'Public Procurement Service' supply contract)
- 07. 'INNO-BIZ' certified (Small and Medium Business Administration)
- 08. Selected to 'Best R&D 20' by Ministry of Land, Infrastructure and Transport)
- 11. Awarded the 'IR52 Jangyeongsil award'
(Curved PSC Box Girder, SB40, Ministry of Science, ICT and Future Planning)

2014

- 03. Awarded the 'Technology prize' (Korean Society of Civil Engineers)
- 05. Certificated 'Land and Transport research Award'
(Curved PSC Box Girder, SB40, Ministry of Land, Infrastructure and Transport)
- 05. First 'Curved PSC Box Girder bridge (SB40)' constructed (Jageum IC Ramp-A bridge)
- 06. Invite investment (Korea Technology Finance Corporation, AJU IB Investment, Neoplux Co, Ltd., HYUNDAI Venture Investment Corp.)
- 11. Certified 'MAIN Biz'

2015

- 02. Acquired 'Green Technology' (SB40)
(Ministry of Land, Infrastructure and Transport)
- 03. Acquired 'NEW EXCELLENT TECHNOLOGY' (SB20)
(Ministry of Land, Infrastructure and Transport)

Business Field



■ Multi PSC Box Girder (SB20)



■ Curved PSC Box Girder (SB40)



■ Precast Through PSC Girder

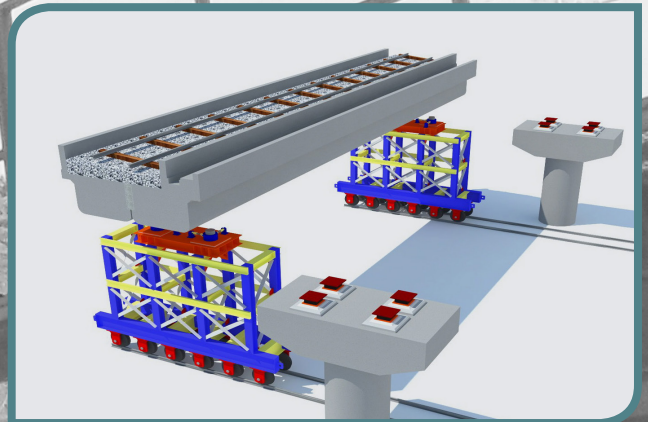


■ PSC I Girder

Mechanized Construction



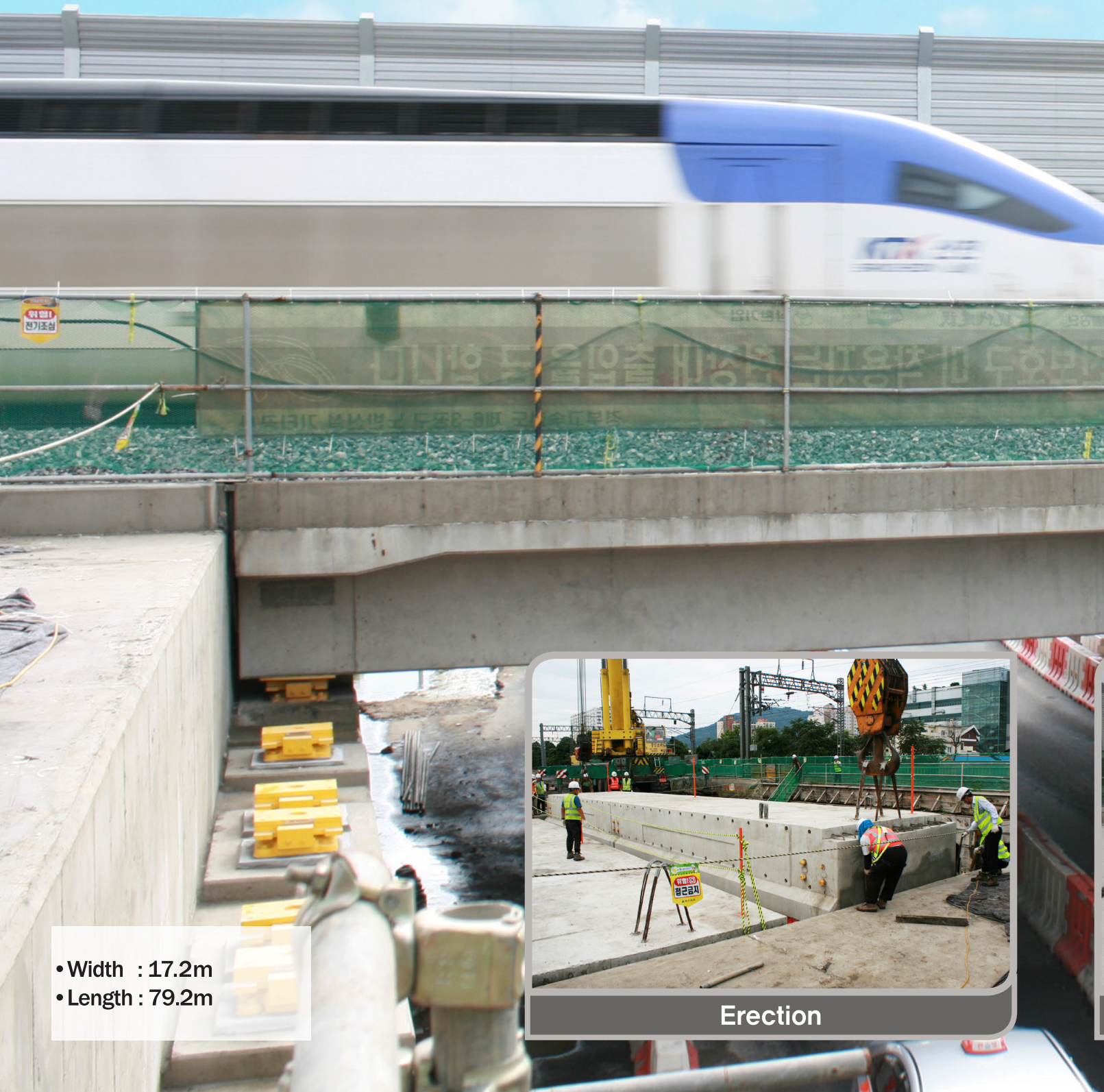
■ Edge Girder Erection Method



■ Moving Lift

Wondong Underground

Multi PSC Box Girder



- Width : 17.2m
- Length : 79.2m



Erection

Roadway

- Customer :  한국철도시설공단
KOREA RAIL NETWORK AUTHORITY
- Contractor :  HYUNDAI
ENGINEERING & CONSTRUCTION
- Constructor :  BRIDGE TECHNOLOGY
- Technology : Multi PSC Box Girder Railway



Cast in place



Lateral PT work

Pan Am 1 Railway Bridge

Multi PSC Box Girder (SB20)



- Width : 6.3m
- Length : 26@25=650.0m

Production

je

- Customer :  한국철도시설공단
KOREA RAIL NETWORK AUTHORITY
- Contractor :  HYUNDAI
ENGINEERING & CONSTRUCTION
- Constructor :  BRIDGE TECHNOLOGY
- Technology : Multi PSC Box Girder



Transport



Erection

Pan Am 3 Railway Bridge

Multi PSC Box Girder (SB20)



- Width : 6.3m
- Length : 23@25m=575.0m



Production

je

- Customer :  한국철도시설공단
KOREA RAIL NETWORK AUTHORITY
- Contractor :  HYUNDAI
ENGINEERING & CONSTRUCTION
- Constructor :  BRIDGE TECHNOLOGY
- Technology : Multi PSC Box Girder



Transport



Erection

Song Jeong Railway Bridge

Multi PSC Box Girder (SB20)



- Width : 5.5m
- Length : 1@40.0m

- Width : 6.6m
- Length : 1@41.0m



Transport

dge

- Customer :  한국철도시설공단
KOREA RAIL NETWORK AUTHORITY
- Contractor :  GS 건설
- Constructor :  BRIDGE TECHNOLOGY
- Technology : Multi PSC Box Girder



Erection



Cast in place

Mu do cheon gyo

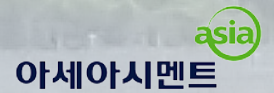
Multi PSC Box Girder (SB20)

- Width : 6.0m
- Length : 4@35m=140.0m



Production

• Customer :



• Constructor :



• Technology : Multi PSC Box Girder



Transport



Erection

Hwa Juk 2 gyo

Multi PSC Box Girder (SB20)



- Width : 8.0m
- Length : 2@26.5m=53.0m



Production

• Customer :



• Constructor :



• Technology : Multi PSC Box Girder



Transport






Erection

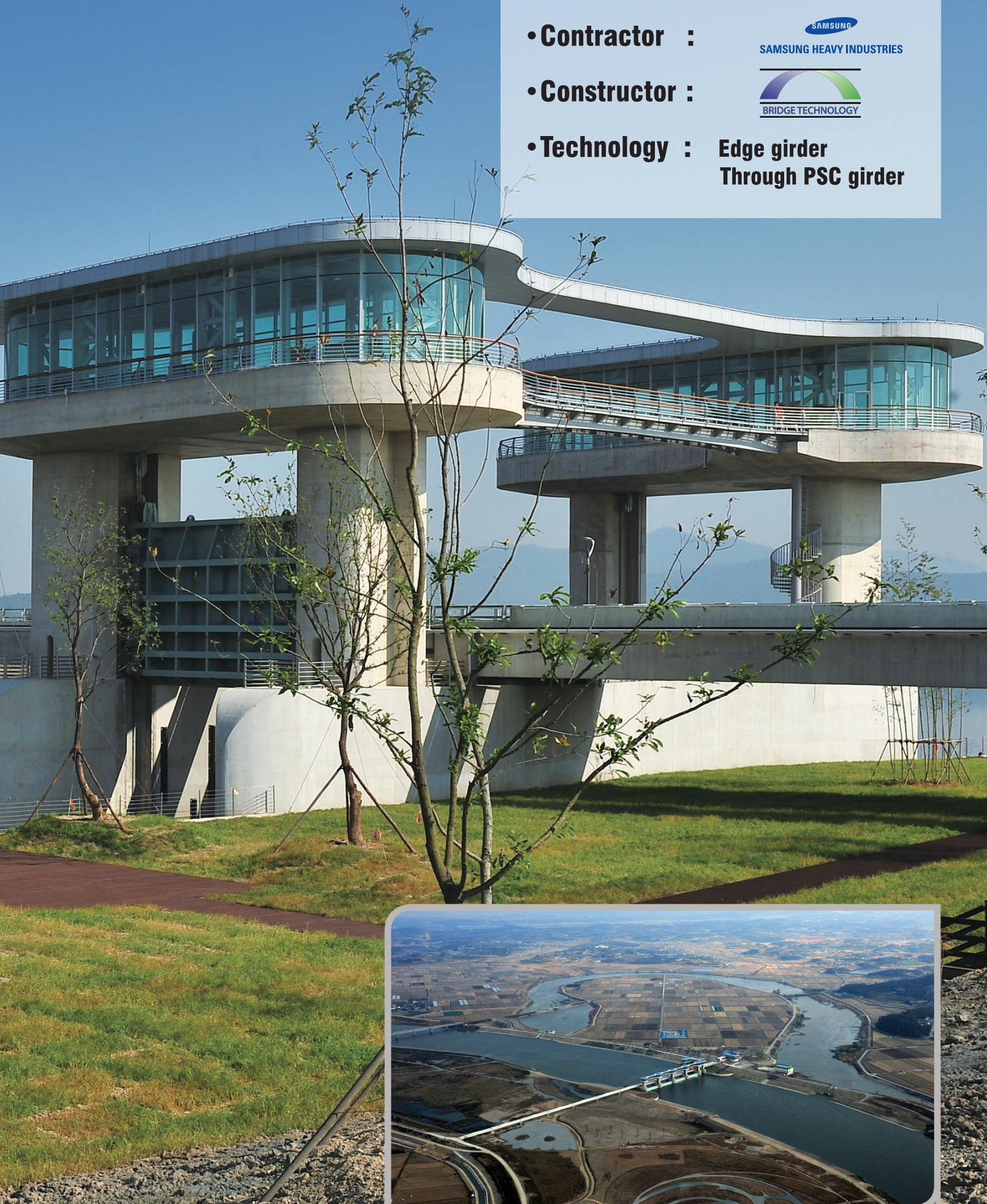
JOOKSANBO

Edge Girder



- Width : 5.4m
- Length : 622.0m
- Radius : 56.0m

- **Customer** :  국토교통부
국토교통부
국토교통부
- **Contractor** :  SAMSUNG
SAMSUNG HEAVY INDUSTRIES
- **Constructor** :  BRIDGE TECHNOLOGY
- **Technology** : Edge girder
Through PSC girder



Aerial photograph of JOOKSANBO

Gusannongrogyo

Edge Girder



Before Consruction



Double Length, Equal Height

• **Customer** :



정읍시
JEONGSEUP-SI

• **Constructor** :



• **Technology** : Edge girder
Through PSC girder



• **Width** : 4.40m
• **Length** : 39.6m
• **Max Length** : 19.8m

Heungbugyo

Edge Girder



- Width : 8.4m
- Length : 71.0m
- Max Length : 23.3m

• Customer :



• Constructor :



• Technology : Edge girder
Through PSC girder



Erection of Edge girder



Erection of Precast Slab

45m Railway Through

45m 철도 하로형
주관연구기관 GS 건설
2012. 10. 10(수) 14:00~18:00
BRIDGE TECHNOLOGY
토웅건설(주)
공동연구기관



- Width : 12.9m
- Length : 45.0m
- Actuator : 5000KN -2ea

P- δ Graph of static load

Ja Geum IC Ramp-A gyo

Curved PSC Box Girder (SB40)



- Width : 7.9m
- Length : 40.1m
- Radius : R=220m



Production

- Customer :  국토교통부
서울지방국토관리청
- Contractor :  KUKDONG
ENGINEERING & CONSTRUCTION
- Constructor :  BRIDGE TECHNOLOGY
- Technology : **Curved PSC Box Girder**



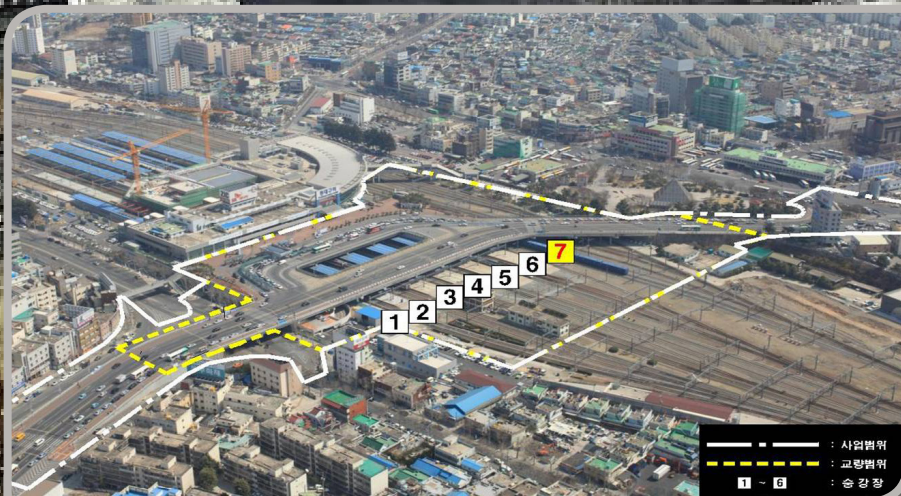
Transport



Erection

Dream Square

SB40, Beam Launcher



Aerial photograph of "DONGDEAGU" Station



Edge Girder E

• Customer :



• Contractor :



• Constructor :



• Contract amount : 230 billion

• Technology : Curved PSC Box Girder
Edge Girder Erection Method

• Width : 170.0m
• Length : 338.8m
• Radius : 218~∞ m



rection Method



completion



Dongbusan IC

PSC Box Girder (SB40)

- Width : 17.5m~23.7m
- Length : 145m (33.8m~40m)
- Max Length : 40m



Production

- **Customer** :  BMC Busan Metropolitan Corporation
- **Constructor** :  BRIDGE TECHNOLOGY
- **Technology** : **PSC Box Girder**



Production



Erection

Curved PSC Box Girder

40m Full-scale Test

- Width : 5.0m
- Length : 40.0m
- Radius : 100.0m

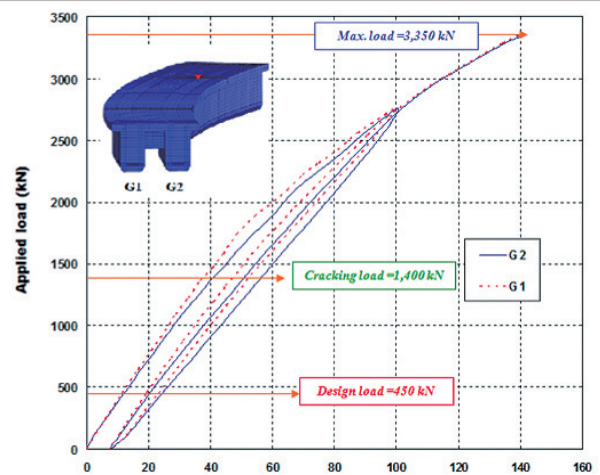
•Customer :



•Main Research Institute :



Ultimate Behavior TEST



P- δ Graph of static load