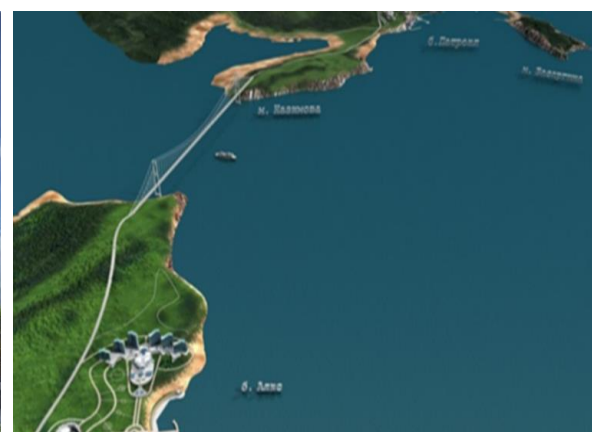
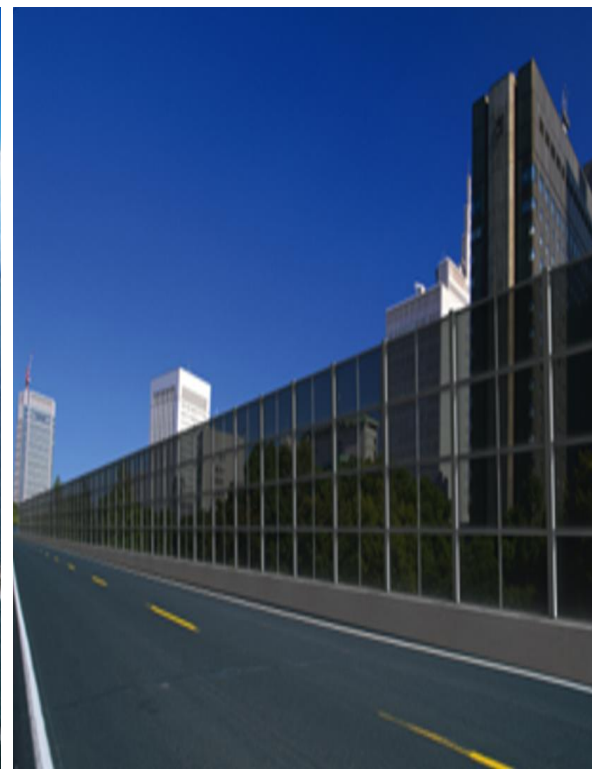


Overseas Project References List





Major Overseas Experience

-  **1. Middle East Kuwait** - Sheikh Jaber Al-Ahmad Al-Sabah Causeway Project
-  **2. Middle East Saudi Arabia** - Riyadh Metro Project
-  **3. ASEAN Brunei** - Temburong Bridge Project
-  **4. ASEAN Malaysia** - Jalan Duta Plus Highway
-  **5. ASEAN Malaysia** - IPOH Plus Highway / KL City Main Road
-  **6. ASEAN Philippines** - Iloilo Flood Control PKG 2
-  **7. ASEAN Thailand** - No.41 Highway / Motor way
-  **8. Others Russia** - APEC Road Project



Major Overseas Experience

1. Middle East Kuwait - Sheikh Jaber Al-Ahmad Al-Sabah Causeway Project

Client	STATE OF KUWAIT MINISTRY OF PUBLIC WORKS
Consultant	Dar Al-Handasah
Main Contractor	HYUNDAI E&C, GS E&C
Contract Amount	1) Main Link: US\$26,000,000 2) Doha Link: US\$426,000
Duration	1) Main Link: Nov 2012~Nov 2017 2) Doha Link: Oct 2014~Oct 2018
Project Description	FSLM Sea-Crossing Bridge 1) Main Link: L=36.1km 2) Doha Link: L=12.4km (Sea-Crossing Section L=7.7km Elevated Section L=4.7km) 3) Span L=35~60m 4) 6 Lanes (W=30.6m)
DASCO's Scope of Works	Supply & Installation of Bridge Rail - Safety Grade: TL4A / TL3 1) Main Link (Hyundai) : L=36.1km (Four-track) 3) Doha Link (GS) : L=12.4km (Four-track / Supply only)



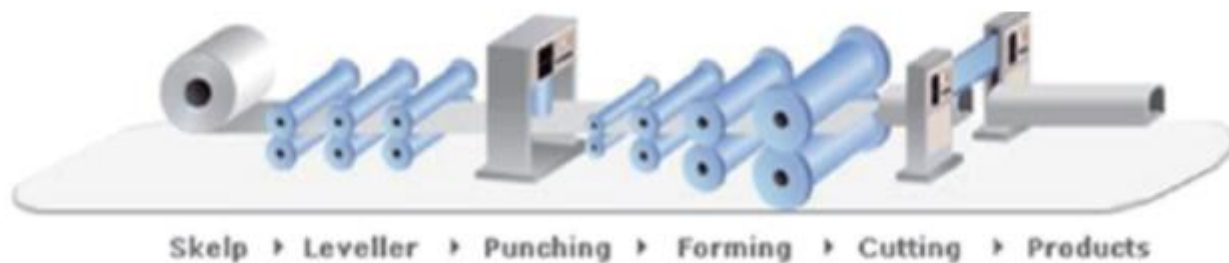
Kuwait Causeway Project is a mega bridge construction project hosted by state of Kuwait ministry of public works. This is a large bridge that spans **over 30 km between the city of Shuwaikh in Kuwait and the new town of Subiyah.**

Major Overseas Experience

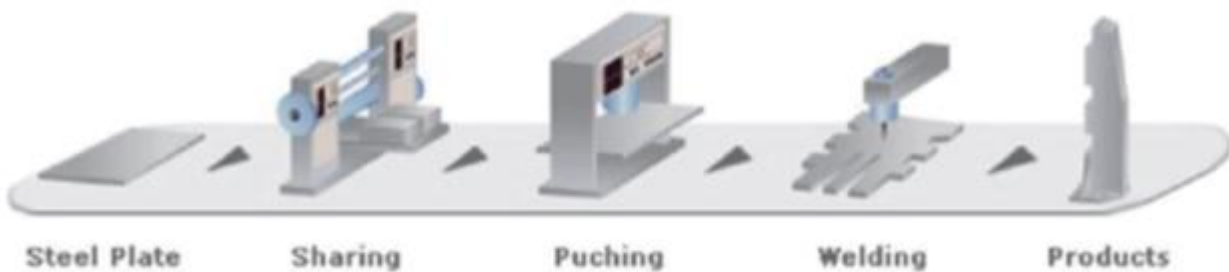
1. Middle East Kuwait - Sheikh Jaber Al-Ahmad Al-Sabah Causeway Project

Images from project

Rail Production Process



Post Production Process



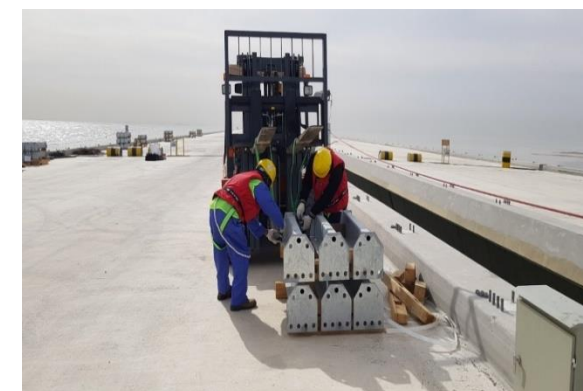
Images of Major Items



1. Material unloading



2. Material setting



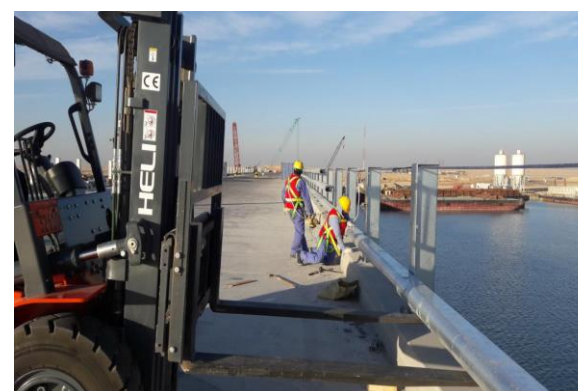
3. Post installation



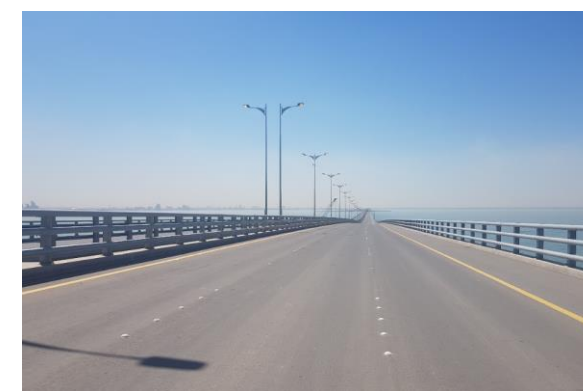
4. Post installation completed



5. Rail installation



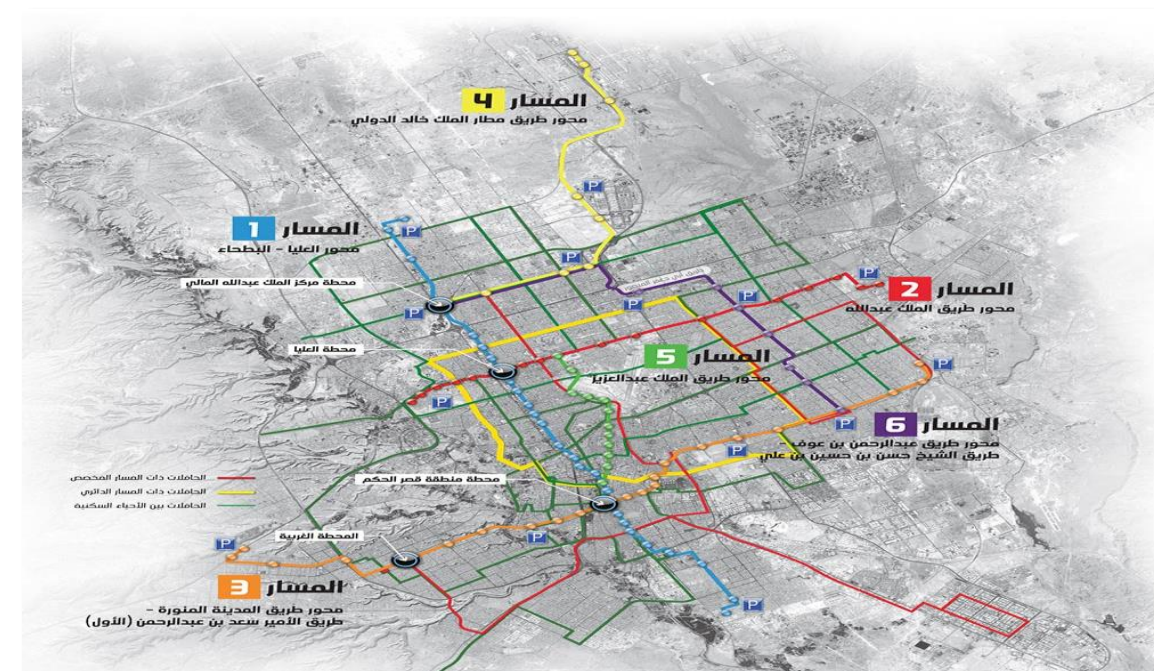
6. Rail installation completed



Major Overseas Experience

2. Middle East Saudi Arabia - Riyadh Metro Project

Client	ADA (Ar-riyadh Development Authority)
Consultant	RMTC + RAMPED
Main Contractor	FAST Consortium (FCC, Samsung C&T, Alstom, Strukton, Freyssinet SA, Atkins, Tyspa, Setec)
Contract Amount	USD 82,900,000
Duration	Oct 2013 ~
Project Description	Driver-less Metro System & M&E Works (TBM, At-Grade & Viaduct L=60km) 1) Line 4: L=30km 2) Line 6: L=30km
DASCO's Scope of Works	Supply and Installation of edge unit: <ul style="list-style-type: none"> - Main steel structure - Cladding - Noise barrier - Checkered Plate - Handrail & Guardrail



Yellow line (line4)

King Khalid int'l airport corridor

Length : 30 kilometers

Purple line (line6)

Abdulrahman bin Oaf-Hassan

- bin Hussain bin ali corridor

Length : 30 kilometers

Major Overseas Experience

2. Middle East Saudi Arabia - Riyadh Metro Project

What we supplied and installed



Main steel structure

Line4 5,592ton
 Line6 5,462ton
 Total 11,054ton



Noise barrier

Line4 7,832ea
 Line6 42,696ea
 Total 50,528ea



Cladding

-Aluminum Cladding Panel
 Line4 31,886m²
 Line6 31,148m²
 Total 63,034m²



Checkered Plate

Line4 1,816ton
 Line6 1,774ton
 Total 3,590ton



Hand rail & Guard rail

Line4 31,600m
 Line6 30,280m
 Total 61,880m

Major Overseas Experience

2. Middle East Saudi Arabia - Riyadh Metro Project

Installation Method



MWP
(Mobile working platform)

Save work period

Special equipment
for edge unit work



MSWP
(Mobile scaffold working platform)

Save cost

Where it is impossible
to work by MWP



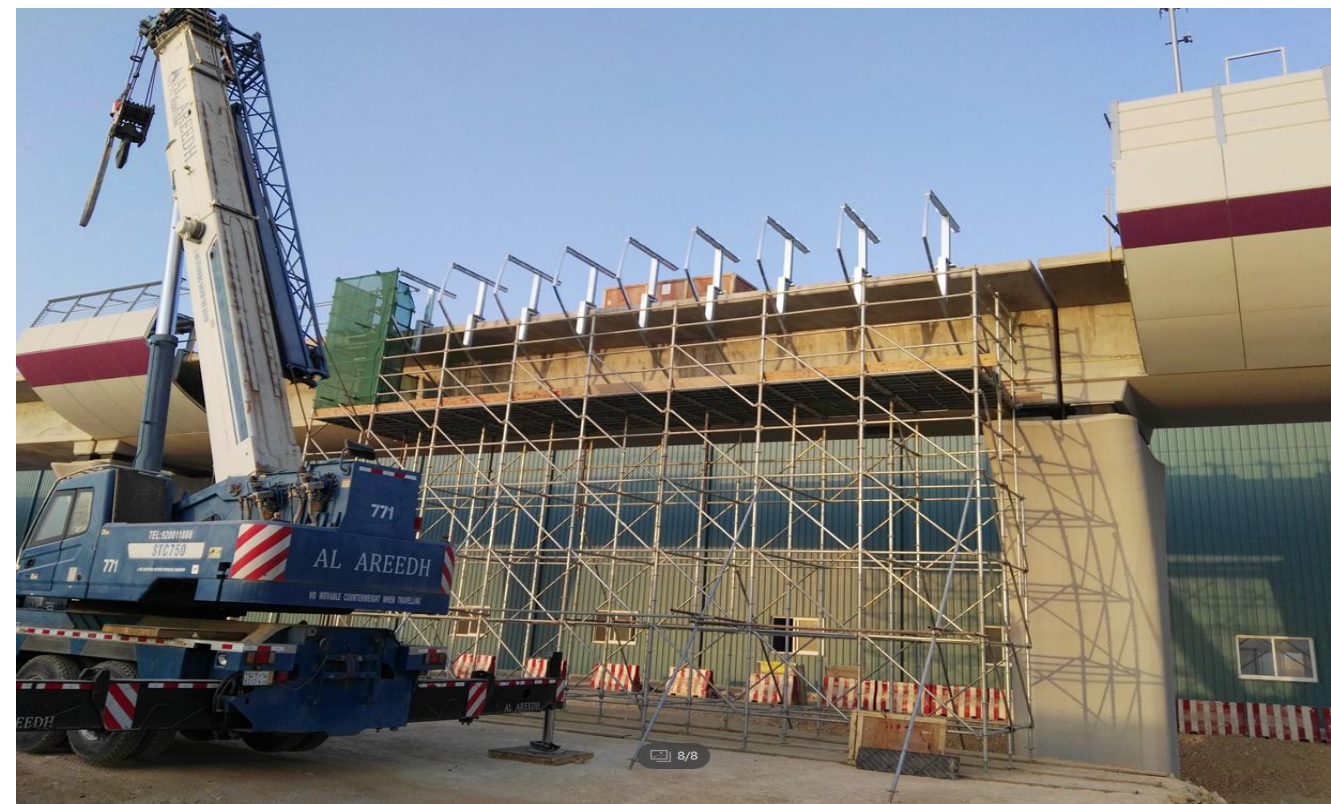
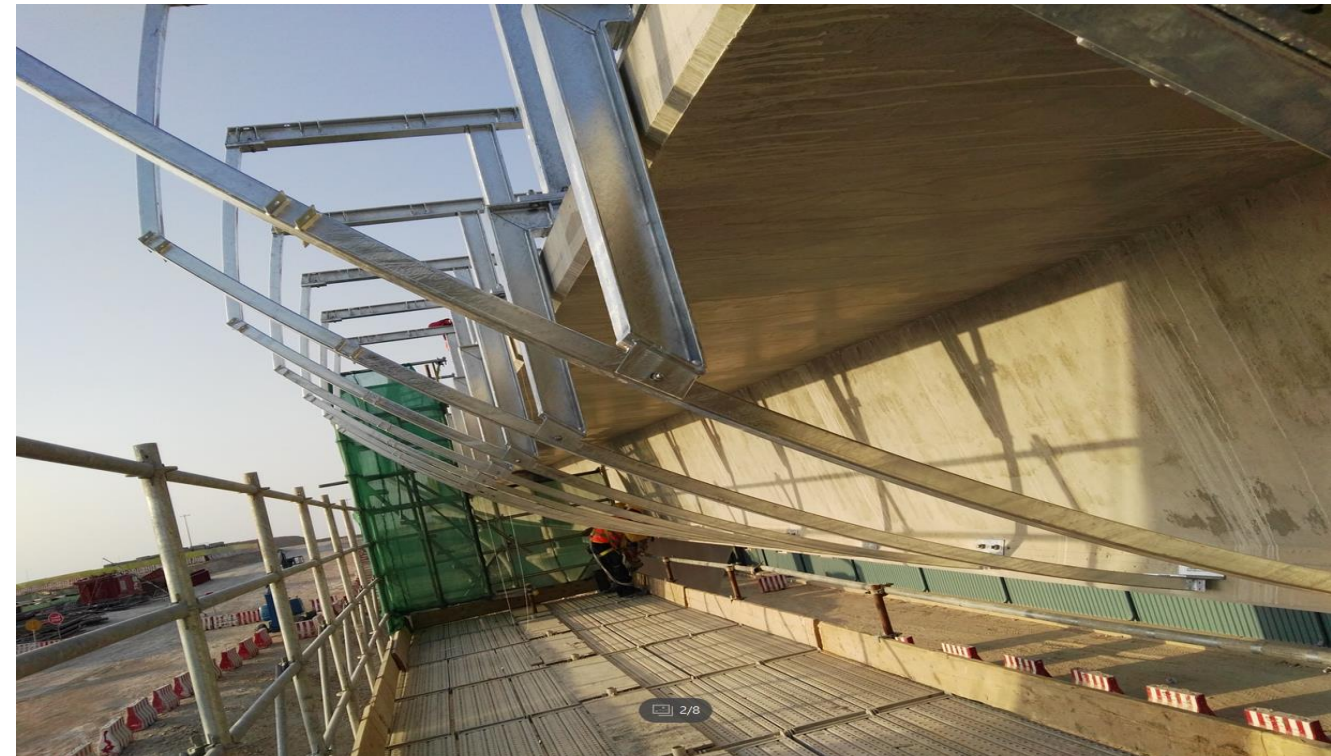
General High Work
Depend on situation

Where it is skipped area

Major Overseas Experience

2. Middle East Saudi Arabia - Riyadh Metro Project

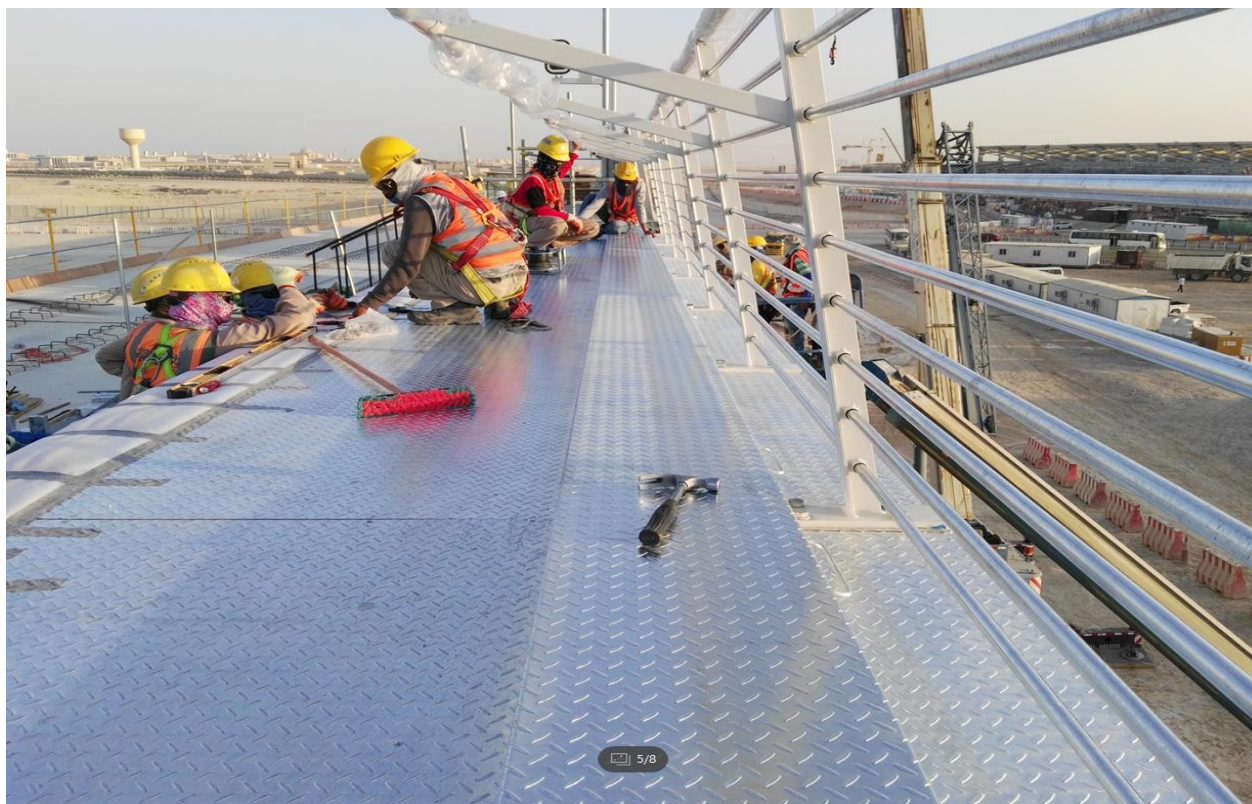
Images from project



Major Overseas Experience

2. Middle East Saudi Arabia - Riyadh Metro Project

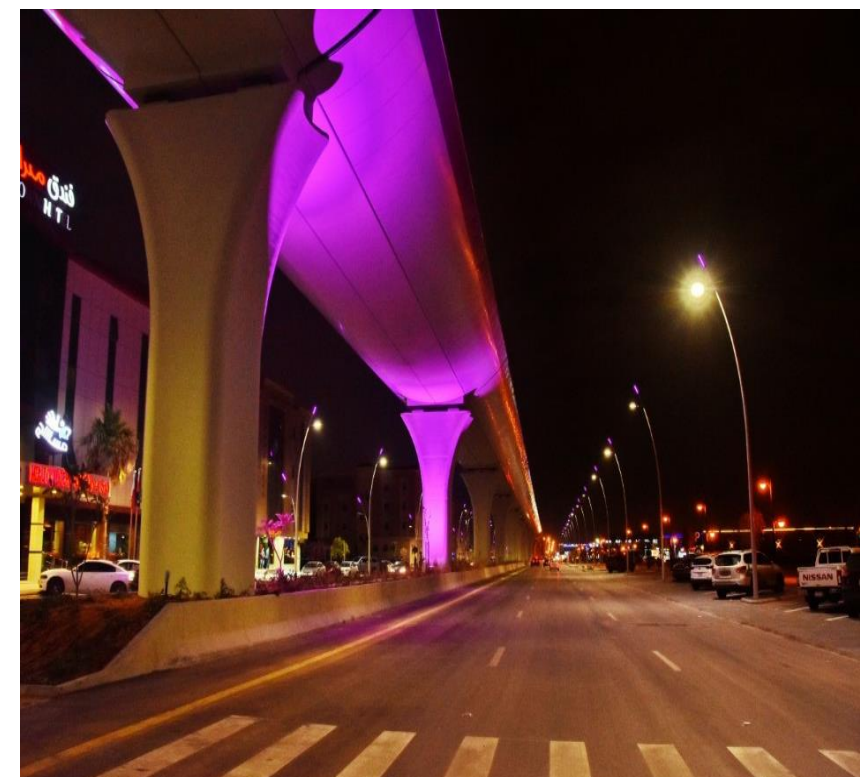
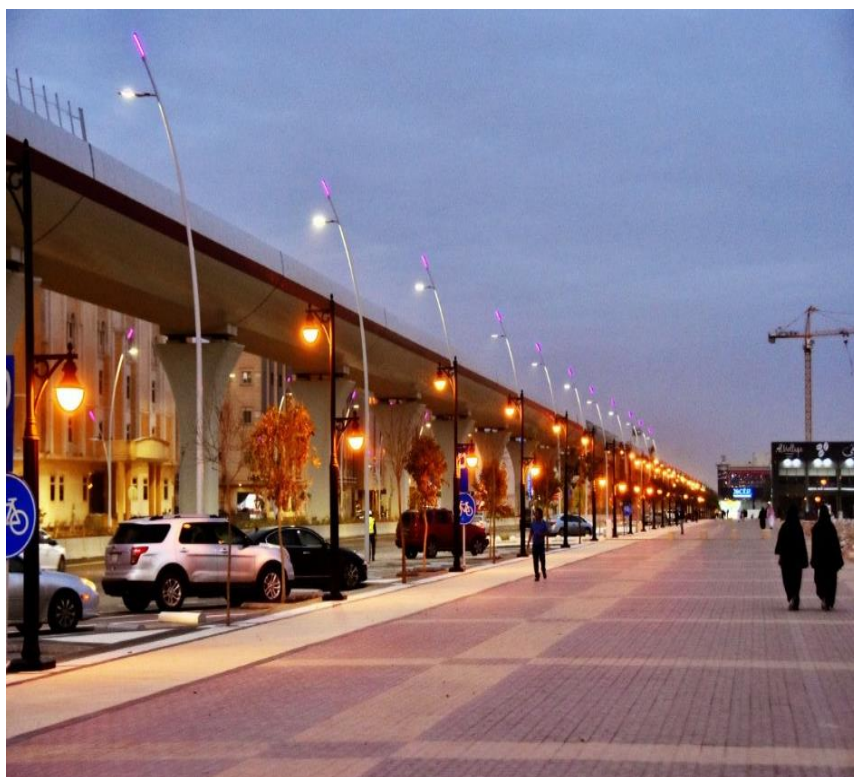
Images from project



Major Overseas Experience

2. Middle East Saudi Arabia - Riyadh Metro Project

Images from project



Major Overseas Experience

3. ASEAN Brunei - Temburong Bridge Project

Client	MOD (Ministry of Development)
Consultant	Ove Arup Dan Rakan Rakan
Main Contractor	Daelim-Swee J/V
Contract Amount	USD 6,300,000
Duration	Sep 2016 ~ DEC 2019
Project Description	<p>PSC Box Girder Sea-Crossing Bridge (L=13.4km, W=11m)</p> <ul style="list-style-type: none"> - 13.4km of Marine Viaducts - 1.1km of Navigation Bridges - 11.8km of Temburong Road
DASCO's Scope of Works	<p>Supply & Installation of bridge rail</p> <ol style="list-style-type: none"> 1) L=26.3km 2) Safety Grade: SB4 (2-Layers)



PKG	CC2	CC3	CC4
Sub-Title	Marine Viaducts	Navigation Bridges	Temburong Road (Jungle Viaduct)
Length	13.4km (PSC Box Girder)	1.1km (Cable Stayed)	11.8km
Contractor	DAERIM-Swee JV	DAERIM-Swee JV	CSCEC-Ocean Quarry JV

Major Overseas Experience

3. ASEAN Brunei - Temburong Bridge Project

Images from project

1. Material forming



2. Material processing



3. Zinc Hot Dip Galvanizing



4. Material painting



5. Material Packaging



6. Container loading



1. Anchor installation



2. Post Installation



3. Rail installation



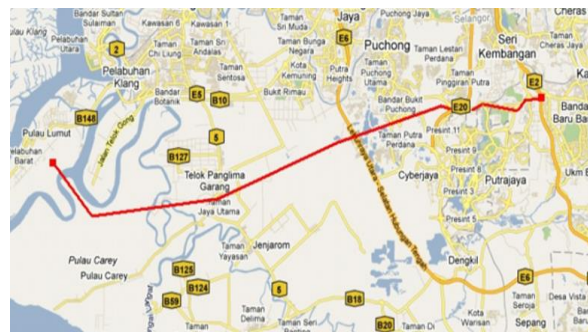
4. Installation completed



Major Overseas Experience

4. ASEAN Malaysia - Jalan Duta Plus Highway

Employer	PLUS HIGHWAY
Main Contractor	PROPEL
Duration	January 2009~ March 2009
Total Length	664m
Grade	Guardrail (TL5)
DASCO's Scope of Works	Highway guardrail (Concrete L-Anchor)



5. ASEAN Malaysia - IPOH Plus Highway / KL City Main

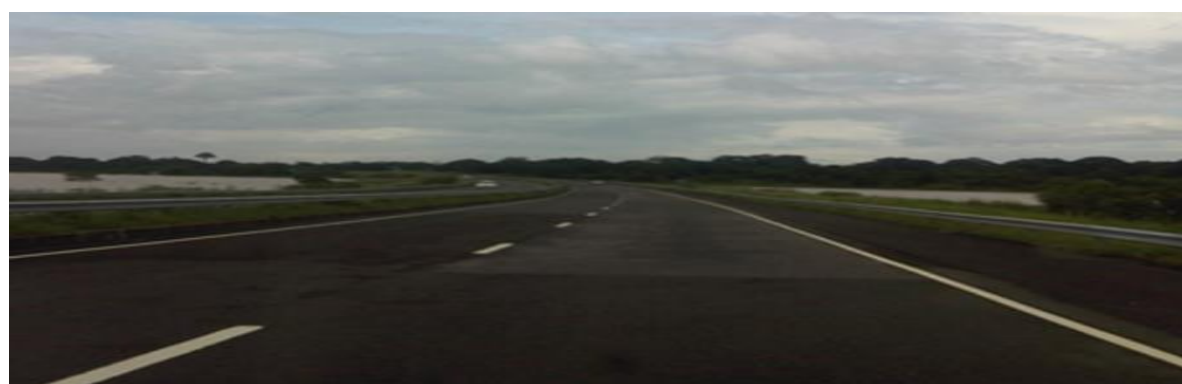
Employer	PLUS HIGHWAY / PROPEL
Main Contractor	PROPEL / MRSB
Duration	Sep 2009~ Dec 2010 / Mar 2010~ Jun 2010
Total Length	320m / 18,200m
Grade	Guardrail (SB5)
DASCO's Scope of Works	Main road guardrail (Concrete L-Anchor)



Major Overseas Experience

6. ASEAN Philippines - Iloilo Flood Control PKG 2

Employer	DPWH
Main Contractor	Hanjin Heavy Industries Co., Ltd.
Duration	May 2009~ June 2009
Total Length	2,028m
Grade	Guardrail (W type / SB2)
DASCO's Scope of Works	Main road guardrail



7. ASEAN Thailand - No.41 Highway / Motor way

Employer	ATI / Thai Motor way
Main Contractor	Punj Lloyd / WBT
Duration	March 2012~April 2012 / March 2014 ~ April 2014
Total Length	650m / 320m
Grade	Guard Rail (SB4) / Guard Rail (SB2)
DASCO's Scope of Works	Thrie beam Guard Rail / Dual Strength Guard Rail



Major Overseas Experience

8. Others Russia - APEC Road Project

Employer	Russia Maritime Province
Main Contractor	KTM
Duration	January 2011
Total Length	1,650m
DASCO's Scope of Works	Sound Absorption Transparent Noise barrier (H=3.0~4.0m)

