NSRP Nghi Son Refinery Commissioning



Operator/ Client: NSRP JV (Petrovietnam -Idemitsu Kosan- Mitsui- Q8)/

JGCS Consortium (JGC-CHIYODA-SK-GS-TECHNIP)

Project/ Location: Nghi Son Refinery/ Thanh Hoa Province, Vietnam

Scope of Services: Commissioning Services

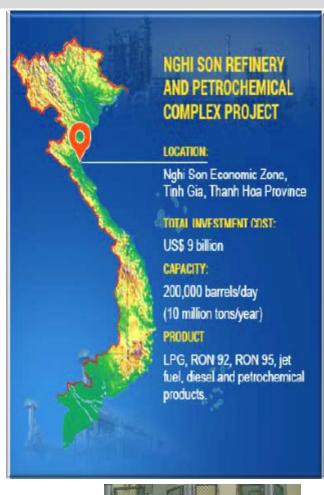


Nghi Son Refinery at a glance:

NSRP Complex is located 260km away from Hanoi capital in Nghi Son Economic Zone, Tinh Gia District, Thanh Hoa Province, one of the biggest provinces in Vietnam. Estimated total investment cost of NSRP Project is approximately \$9 billion. The refinery has capacity to process 200,000 barrels of crude oil imported from Kuwait per day.

NSRP Project is a joint-venture project sponsored by 4 corporations: Vietnam Oil and Gas Group (PetroVietnam), Kuwait Petroleum International Ltd from Kuwait, Idemitsu Kosan Co., Ltd and Mitsui Chemical, Inc.

The EPC Consortium is comprised of JGC Corporation (Japan) as the leader and other members: Chiyoda (Japan), GS E&C (Korea), SK E&C (Korea), Technip France (France) and Technip Geoproduction (Malaysia).





Commissioning Services











ARAMIS Scope of Work:

- Pre-commissioning
- Commissioning
- **300,000 Man-hours**
- Dec 15 to Mar-17
- Integrated Team
 - **Operation Leaders**
 - **Shift Leaders**
 - **Supervisors**
 - **Panel Operators**
 - **Field Operators**

180 160 140 120 100 80 ■ JGC

Pre- Commissioning Schedule:

				0-15	N-15	D-15	J-18	F-16	M-16	A-16	M-18	J-18	J-18	A-18	S-16	0-18	N-16	D-16	J-17	F-17	M-17	A-17	M-17
No	Unit	Month		27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
1	Utility																						
		SK																					
3	Demi. Water	SK						_	_	_	_												
	Cooling Water	SK								_													
5	Potable Water	SK																					
6	GTG & HRSG	SK								_													
7	Boiler	SK									=								=				
8	STG	SK																	=		=		
9	PA/IA	SK							=	_													
10	Nitrogen	SK															-						
11	Fuel Tank	SK							_	_	=												
		SK																					
13	Chemical Storage	SK? JGC	?																				
14	Fire Water	GS/SK																					
15	Inter. Piping (U)	GS/SK																					
		GS/SK																					
	Process																						
17	SWS	SK																-					
18	SRU/ARU/TGT	JGC																					
19	CDU	SK												_									
20	HMU	GS																					
21		CYD																	_	_			
		JGC																	=				
23	PPU	SK											_										
		TP																					
25	Aromatics	SK																					
26		SK																					
27	LRU	SK																					
28.	Off Site	GS																					_

t to Hilbert		Process	
Utility Water	SK	SWS	SK
Service Water	SK	SRU/ARU/TGT	JGC
Jellii. W dico.	SK	CDU	SK
Cooling Water	SK	HMU	GS
Potable Water	SK	R-HDS	CYL
GTG & HRSG	NAME AND ADDRESS OF THE OWNER, WHEN	RFCC/PRU	JGC
Boiler	SK	PPU	SK
STG	SK	CCR/NHT	TP
PA/IA	SK	Aromatics	SK
Nitrogen	SK	KHDS/GO-HDS	SK
Fuel Tank	SK	LRU	SK
Flue Gas (FGD)	SK	LNU	
Chemical Storage	SK/JGC	OV Cite	GS
Ciro Water	GS/SK_	Off Site	00
Inter. Piping (U/P)	GS/SK		



