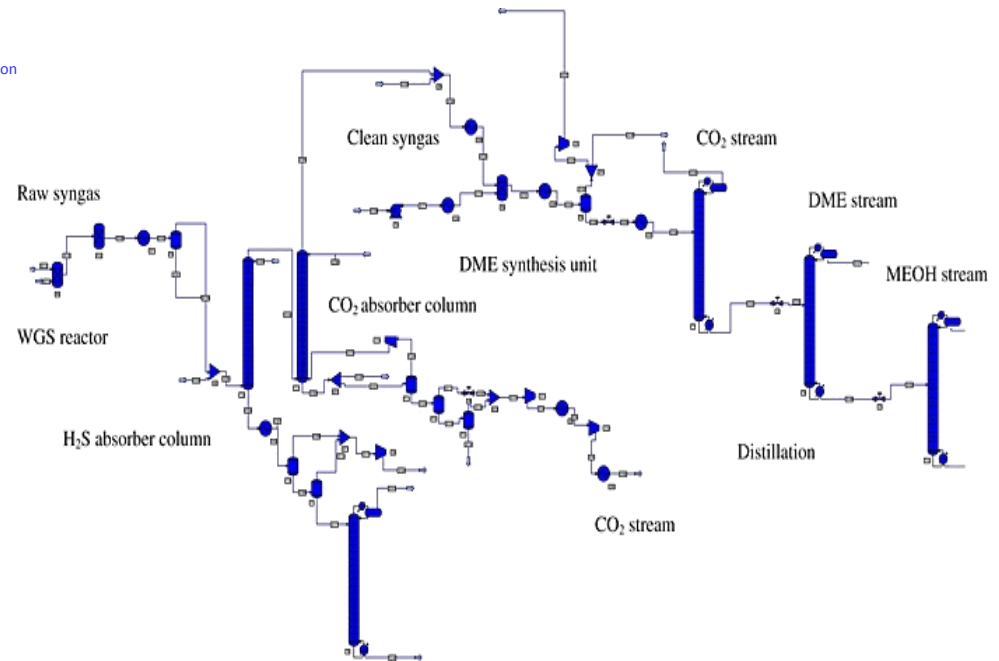


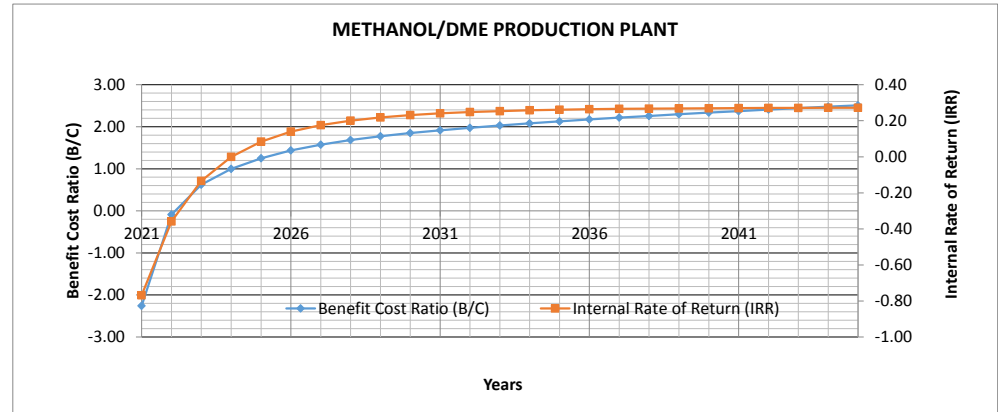
**Malaysia Methanol-chemical fertilizer Plant(Produced by SR(Steam Reforming) - 300 KTA**

Description	Values	Unit		
Work Start Year	2018	Years		
Operating Year	2021	Years		
Location of Ammonia	Green Field	<-Green Field, Brown Field		
Site and Contry for Project	Malaysia			
Sensitivity of Golobal Financial Crisis	0	Years- Active Crisis Year, Otherwise = 0		
Product	Methanol	<- METHANOL, DME		
Product by	SR(Steam Reformii	<- SR,POX		
Required Methanol/DME Product	300	KTA(Killo-Ton/Annual)		
Requirement of Natural Gas from Pipeline	11,223,106	mmbtu/annual	36mmbtu/mt NH <sub>3</sub>	
Assumed Standard Gas Flow	28.2	mmscfd at 288.716°K on 1.013bar	15.556°C	1.013250274bar
Assumed Normal Gas Flow	26.71	mmNcfd at 273.16°K on 1.013bar	0°C	1.013250274bar
Assumed Operating conditions	0.29	mmcfd at 288.16°K on 100bar	15°C	100bar
Required LNG	0.196852235	Mtpa		
LNG Flow rate thru pipeline	1,261	m <sup>3</sup> /day		
Assumed LNG Density	450	kg/m <sup>3</sup>		
Assumed Methanol Density	2.1146	kg/m <sup>3</sup>		
Required Electric Power(Diesel fired generator)	1.18	MW		
Power Supply System	1	0 for Power Outer Supply, 1 for Site Power Generation		
Power Supply Unit Price	0.11	USD/kwh for Power Outer Supply only		
Require Desalination Water	1,341.18	m <sup>3</sup> /hour		
Abandonment of Seawater	1,164.71	m <sup>3</sup> /hour		
Initial Inflation of Fuel Natural Gas Price	0	%		
Fuel Natural Gas Unit Price	3.83	USD/mmbtu in 2021Years		
Pipeline Total Length	100	km		
Transportation Speed	16	knots		
Pipeline Charter Price for natural gas	405,405	USD/year		
Methanol/DME Storage Area at -33.3°C	10811.71	m <sup>2</sup> for stock days =	21days	
Unit Methanol/DME Plant Land Size per 1KTA	235	m <sup>2</sup> /KTA		
Total Land Size	81,400	m <sup>2</sup> - 20.11Acre		
Unit Space Acquisition Cost	16	USD/m <sup>2</sup> in Malaysia		
CAPEX of Area Acquisition Cost	1,301,585	USD		
CAPEX for Methanol/DME Chemical Plant	274,870,588	USD - 이익질천사백팔십칠만오백팔십팔		
CAPEX for Break Water Length is	0m	0	USD	100,000USD/m
CAPEX for Berthing Dol	17.2k DWT	x 1 set	3,035,294	USD
CAPEX for Trestle and f	Pipe x 12.00inch	x 0m	0	USD
CAPEX for Cryogenic	Pipe x 12.00inch	x 0m	0	USD
CAPEX for subsea Cryo	Pipe x 12.00inch	x 0m	0	USD
CAPEX for subsea	Pipe x 24.00inch	x 0m	0	USD
CAPEX for onshore	Pipe x 24.00inch	x 100m	49,160	USD
CAPEX for Transmission Line Length is	5km	0	USD -6.5Kv --Single Ci	1 - Circuit
Total CAPEX for Construction and Fabrication	280,051,921	USD - 이익팔천오만일천구백이십일달리		
Construction and Fabrication Period	3	Years		
Interest FEE during Construction and Fabrication	27,431,967	USD		
TOTAL CAPEX AND INTREST FEE DURING CONSTRUCTION	307,483,888	USD - 삼억칠백사십팔만삼천팔백팔십팔		
Fixed and Various OPEX	9,097,473	USD/Year		
Total cost of purchased Natural Gas	43,389,900	USD/Year(including transportation)		
Methanol/dme Unit Sale Price	479	USD at 2021years		
Total Sale Cost of Mrthanol/DME	143,707,096	USD at 2021years		
Fund Intrest	6.5	%		
Return rate on investment of Net Profit, r	3	%		
Operating Periods	25	Years		

STORAGE TANK					
Storage	Nos of Tank	Diameters	Center Gap	Edge gap	Required Space
21,778m <sup>3</sup>	30	10.9m	0.5D	0.5D	10,811.7m <sup>2</sup>



Project Design Life	50	Years
Benefit Cost Ratio (B/C)	2.51	≥ 1.1 GOOD For 25Years Operating
IRR(Internal Rate of Return)	27.21%	> 0 GOOD For 25Years Operating
NPV(Net Present Value)	1,624,492,342	USD with Asset value of Project for 25Ye
Inflation of LPG Purchased Price	0	%, If Inflation = 0, the LNG Unit price shall be quoted Forecast Price, otherwise consider inflation based on 2021Years Sale Cost, if no consider Inflation, the value=10E-11
1. Sale Cost of Ammonia is applicable Based on inflation of Propane Forecast Price	1	<- 0 : Not Applicable, 1 : Applicable of Ammonia Forecast Price
2. Ammonia Sale Price	from 2021Years to 2023 Years	0 % from 1Years to 3 Years
Inflation to be considered in	from 2024Years to 2027 Years	0 % from 4Years to 7 Years
years(Increased	from 2028Years to 2030 Years	0 % from 8Years to 10 Years
Previous Inflation)	from 2031Years to 2035 Years	0 % from 11Years to 15 Years
	from 2036Years to 2045 Years	0 % from 16Years to 25 Years
Income tax rate for government	18	%
Inflation of Space Acquisition	1	%
First Project residual value	174,059,801	USD after 10 Years
Second Project residual value	70,420,160	USD after 30 Years
Final residual value on Design Life	29,497,529	USD after 50 Years
<b>Net Payback Turn Over Periods</b>	<b>4.000</b>	<b>Years</b>



		Actual Payback turn Over Years	5Years	5Years	해찾기										
		Initial Value(min 0%, max 20%)	17.904%	17.904%	0	Good									
		Limit of Initial Value	≤ 20%	≤ 20%											
End of Year	% of Return of Equity	% of Return of FUND	Return of Equity (USD) 20% of Equity	Return of FUND(USD) 80% of FUND	Remain Cost(USD)	Fund Interest 6.5%(USD)	OPEX(USD)	Yearly Revenue(USD)	Yearly Purchased Price(USD) of LNG W/ Inflation	Net Profit(USD)	(현재자산가치)Asset value=Residual Value(USD)	(순현재가치)Net Present Value	Benefit Cost Ratio (B/C)	(내부수익률)Internal Rate of Return (IRR)	
2021	1	17.90%	17.90%	11,010,522	44,042,088	307,483,888	19,986,453	9,097,473	143,707,096	43,389,900	13,268,141	262,619,839	-231,383,858	-0.77	
2022	2	18.95%	18.95%	11,654,939	46,619,755	252,431,278	16,408,033	9,097,473	151,004,332	44,624,442	18,531,746	250,822,678	-157,372,340	-0.36	
2023	3	20.00%	20.00%	12,299,356	49,197,422	194,156,584	12,620,178	9,097,473	144,000,000	45,971,215	12,147,773	239,619,626	-89,570,885	-0.13	
2024	4	21.05%	21.05%	12,943,772	51,775,089	132,659,807	8,622,887	9,097,473	144,000,000	47,542,450	11,495,030	228,963,845	-21,651,493	0.00	
2025	5	22.10%	22.10%	13,588,189	54,352,756	67,940,945	4,416,161	9,097,473	146,300,000	48,664,760	13,268,141	218,855,337	48,799,027	0.08	
2026	6	0.00%	0.00%	0	0	0	0	9,097,473	148,600,000	50,235,995	73,198,556	209,020,532	121,380,887	0.14	
2027	7	0.00%	0.00%	0	0	0	0	9,097,473	150,900,000	51,807,230	73,796,144	199,733,003	192,424,006	0.18	
2028	8	0.00%	0.00%	0	0	0	0	9,097,473	155,600,000	53,378,465	76,361,731	190,719,180	263,795,846	0.20	
2029	9	0.00%	0.00%	0	0	0	0	9,097,473	160,300,000	54,949,700	78,927,319	182,252,636	335,416,989	0.22	
2030	10	0.00%	0.00%	0	0	0	0	9,097,473	165,000,000	56,520,934	81,492,906	174,059,801	407,212,366	0.23	
2031	11	0.00%	0.00%	0	0	0	0	9,097,473	169,700,000	56,991,581	84,960,976	166,414,246	479,883,000	0.24	
2032	12	0.00%	0.00%	0	0	0	0	9,097,473	174,400,000	57,462,227	88,429,046	159,042,404	553,316,997	0.25	
2033	13	0.00%	0.00%	0	0	0	0	9,097,473	179,100,000	57,932,873	91,897,116	151,944,277	627,408,240	0.25	
2034	14	0.00%	0.00%	0	0	0	0	9,097,473	183,800,000	58,403,520	95,365,186	145,119,865	702,056,148	0.26	
2035	15	0.00%	0.00%	0	0	0	0	9,097,473	188,500,000	58,874,166	98,833,256	138,569,170	777,165,438	0.26	
2036	16	0.00%	0.00%	0	0	0	0	9,097,473	193,200,000	59,332,821	102,311,159	132,565,763	852,653,162	0.26	
2037	17	0.00%	0.00%	0	0	0	0	9,097,473	197,900,000	59,791,475	105,789,063	126,836,076	928,433,558	0.27	
2038	18	0.00%	0.00%	0	0	0	0	9,097,473	202,600,000	60,250,130	109,266,966	121,106,542	1,004,425,538	0.27	
2039	19	0.00%	0.00%	0	0	0	0	9,097,473	207,300,000	60,708,785	112,744,869	115,650,731	1,080,552,490	0.27	
2040	20	0.00%	0.00%	0	0	0	0	9,097,473	212,000,000	61,167,439	116,222,772	110,468,644	1,156,742,084	0.27	
2041	21	0.00%	0.00%	0	0	0	0	9,097,473	216,700,000	61,626,094	119,700,676	105,560,284	1,232,926,090	0.27	
2042	22	0.00%	0.00%	0	0	0	0	9,097,473	221,400,000	62,084,748	123,178,579	100,925,652	1,309,040,199	0.27	
2043	23	0.00%	0.00%	0	0	0	0	9,097,473	226,100,000	62,543,403	126,656,482	96,564,749	1,385,023,854	0.27	
2044	24	0.00%	0.00%	0	0	0	0	9,097,473	230,800,000	63,002,057	130,134,385	92,204,008	1,460,820,082	0.27	

2045	25	0.00%	0.00%	0	0	0	0	9,097,473	235,500,000	63,460,712	133,612,289	88,116,999	1,536,375,342	2.51	0.27
2046	26	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2047	27	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2048	28	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2049	29	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2050	30	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2051	31	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2052	32	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2053	33	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2054	34	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2055	35	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2056	36	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2057	37	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2058	38	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2059	39	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2060	40	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2061	41	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2062	42	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2063	43	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2064	44	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2065	45	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2066	46	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2067	47	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2068	48	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2069	49	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2070	50	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
	Summation	100%	100%	61,496,778	245,987,110	954,672,503	62,053,713	227,436,817	4,548,411,428	1,400,717,122	2,091,590,308	88,116,999	1,624,492,342	2.51	0.27

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