EPC Services for the Guyana Integrated NGL Plant and 300 MWe CCGT Power Plant

Proposal Schedule 5 - Proposal Price Breakdown

	Created by	Revised by	Approved by
Name			
Signature			
Date			

Item #	Description	Amount (in USD)
1	**POWER PLANT**	
1.1	**Engineering & Desing**	**$ 18,809,671.88**
1.2	**Furnish and Deliver Major Equipment:**	**$ 329,749,278.45**
.1	Gas Turbine Generators	109,562,599.29
.2	Steam Turbine Generators	27,368,312.81
.3	Heat Recovery Steam Generators (HRSG)	30,742,677.25
.4	Stacks	6,085,330.99
.5	Cooling Tower	3,033,581.50
.6	Condenser(s)	1,280,685.57
.7	Boiler Feed Pupms	1,200,469.84
.8	Circulating Water Pupms	1,310,145.92
.9	Mescellaneous Pumps	243,392.29
.10	Water Treatment System	1,430,451.26
.11	Sampling & Chemical Feed Systems	1,386,953.58
.12	CEMS	552,867.67
.13	Diesel Fuel System	5,869,175.58
.14	Black Start Generator	2,603,109.41
.15	GSU Transformer	1,219,351.25
.16	UPS, Batteries & Chargers	945,339.73
.17	Switchgear, Breakers & Motor Control Centers	8,806,482.40
.18	Bus Duct	2,016,678.97
.19	Substation Equipment	41,101,727.48
.20	DCS	3,129,329.44
.21	Instrumentation & Controls	959,661.03
.22	Battery Energy Storage Systems (BESS)	74,158,234.00
.23	Other Miscellaneous Equipment	4,742,721.20
1.3	**Construction:**	**$ 106,952,609.16**
.1	Foundations	41,271,356.40
.2	Underground Utilities	2,476,281.38
.3	Structure Steel	4,028,893.50
.4	Buildings	1,083,520.75
.5	Erection of Mechanical Equipment	27,645,928.51
.6	Piping Material & Labor	7,797,569.58
.7	Erection of Electrical Equipment	16,986,794.28
.8	Electrical Raceway, Cable & Wiring	3,397,358.86
.9	Instrumentation & Controls	2,264,905.90
.10	Other Miscellaneous Construction	-
1.4	**Commissioning & Start-up:**	**$ 6,178,004.30**
.1	Training & Manuals	308,900.21
.2	Commissioning & Start-up	4,633,503.22
.3	Testing	1,235,600.86
	Total Item 1 - Power Plant	**$ 461,689,563.79**
2	**NATURAL GAS CONDITIONING PLANT**	
2.1	**Engineering & Desing**	**$ 4,172,504.11**
2.2	**Furnish and Deliver Major Equipment:**	**$ 35,837,691.51**
.1	Slug Catcher	5,421,476.70
.2	Inlet separator, preheat exchanger & pressure letdown	2,824,976.61
.3	Mercury removal vessel and first fill media	879,053.72
.4	Export accumulator / mix drum	1,113,338.97
.5	Heating medium furnace, expansion tank and pupms	968,120.84

Item #	Description	Amount (in USD)
.6	Flare drum, stack and burners	12,273,836.00
.7	Fuel gas package	580,872.50
.8	Backup fuel gas propane storage and package	481,294.36
.9	Other Miscellaneous Equipment	11,294,721.81
2.3	**Construction:**	**$ 8,317,914.26**
.1	Foundations	2,370,714.94
.2	Underground Utilities	-
.3	Structure Steel	778,331.25
.4	Buildings	-
.5	Erection of Mechanical Equipment	1,478,829.38
.6	Piping Material & Labor	985,886.25
.7	Erection of Electrical Equipment	921,993.34
.8	Electrical Raceway, Cable & Wiring	614,662.23
.9	Instrumentation & Controls	1,167,496.88
.10	Other Miscellaneous Construction	-
2.4	**Commissioning & Start-up and Testing:**	**$ 2,052,615.50**
.1	Training & Manuals	205,261.55
.2	Commissioning & Start-up	1,744,723.17
.3	Testing	102,630.77
	Total Item 2 - Natural Gas Conditioning Plant	**$ 50,380,725.38**
3	**NATURAL GAS LIQUIDS FRACTIONA PLANT**	
3.1	**Engineering & Desing**	**$ 10,204,701.02**
3.2	**Furnish and Deliver Major Equipment:**	**$ 122,147,776.93**
.1	H2S removal vessel and first fill media	-
.2	Dehydration mole sieve vessels, exchangers and first fill media	8,102,644.57
.3	Gas-Liquid separation (turbo expander / JT / exchangers)	17,825,818.06
.4	De-Ethanizer / De-Methanizer (column, reboiler and o/h exchangers)	6,482,115.66
.5	De-Propanizer (column, reboiler, coolers, and o/h exchangers & drum)	6,463,313.29
.6	De-Butanizer (column, reboiler, coolers, and o/h exchangers & drum)	4,308,875.53
.7	Export gas booster compressor	5,092,307.44
.8	Stabilizer (column, reboiler and o/h condenser)	-
.9	Product Storage Bullets and truck loading arms	14,258,460.84
.10	Backup Propane Fuel Storage Bullets and Vaporizer	-
.11	Other Miscellaneous Equipment	59,614,241.54
3.3	**Construction:**	**$ 47,903,883.94**
.1	Foundations	6,857,867.04
.2	Underground Utilities	685,786.70
.3	Structure Steel	1,971,970.49
.4	Buildings	548,629.36
.5	Erection of Mechanical Equipment	11,944,061.35
.6	Piping Material & Labor	14,598,297.20
.7	Erection of Electrical Equipment	4,641,823.16
.8	Electrical Raceway, Cable & Wiring	1,989,352.78
.9	Instrumentation & Controls	4,666,095.84
.10	Other Miscellaneous Construction	-
3.4	**Commissioning & Start-up and Testing:**	**$ 7,489,052.37**
.1	Training & Manuals	973,576.81
.2	Commissioning & Start-up	5,242,336.66
.3	Testing	1,273,138.90
	Total Item 3 - Natural Gas Liquids Fractionation Plant	**$ 187,745,414.26**

Item #	Description	Amount (in USD)
4	**BALANCE OF PLANT**	
4.1	**Engineering & Desing**	**$ 2,220,869.78**
4.2	**Furnish and Deliver Major Equipment:**	**$ 21,641,975.85**
.1	Air Compressor	1,178,375.43
.2	Water Supply Wells	3,428,001.24
.3	Firewater Storage	3,966,185.44
.4	Wastewater Storage, Treatment and Handling	9,775,056.95
.5	Other Miscellaneous Equipment	3,294,356.79
4.3	**Construction:**	**50,107,451.68**
.1	Foundations	27,557,325.23
.2	Underground Utilities	5,354,301.35
.3	Structure Steel	4,133,598.78
.4	Buildings	3,154,987.61
.5	Erection of Mechanical Equipment	3,114,365.59
.6	Piping Material & Labor	1,981,869.01
.7	Erection of Electrical Equipment	262,033.05
.8	Electrical Raceway, Cable & Wiring	299,466.35
.9	Instrumentation & Controls	187,166.47
.10	Other Miscellaneous Construction	4,062,338.23
4.4	**Commissioning & Start-up and Testing:**	**$ 1,145,248.29**
.1	Training & Manuals	171,787.24
.2	Commissioning & Start-up	744,411.39
.3	Testing	229,049.66
	Total Item 4 - Balance of Plant	**$ 75,115,545.60**
5	**ALL OTHER WORKS COVERED BY THE CONTRACT**	
5.1	**Construction:**	
5.1.1	Vertical Vacuum Drainage System (Soil Stabilization)	31,804,838.95
5.1.2	Construction area Landfill & Rainwater drainage	70,862,151.33
	(Itemize as needed, if the price thereof is not included in the above amounts)	
	Total Item 5 - All Other Works	**$ 102,666,990.28**
	SUBTOTAL INTEGRATED FACILITY (Item 1+2+3+4+5)	**$ 877,598,239.31**
	Project Construction Indirect & Soft Costs	**$ 21,166,004.81**
	Taxes (*)	**$ -**
	TOTAL PRICE INTEGRATED FACILITY (Proposed Contract Price)	**$ 898,764,244.12**

NOTE:	1. (*) Price and other charges payable by Employer in connection with the Work to be performed by Contractor are exclusive of Taxes and Duties (as those terms are defined below). The Taxes and Duties shown as a separate line item on this Schedule 5, submitted by Applicant, are in addition to the Price and, if applicable shall be for Employer's account, and shall be paid or reimbursed by Employer. The term "Taxes and Duties" shall mean all fees or charges imposed, assessed or levied by any governmental department, agency, or taxing authority (a "Taxing Authority") and shall include property taxes, sales and use taxes, value added taxes, withholding taxes, goods and services taxes and excise taxes, and/or other charges of a similar nature, customs or other duties, customs agent fees and other such charges and fees. Applicant with the support of Employer, intends to request tax exemptions and benefits for the Project. 2. See Additional Conditions (Attached).

1 Bid Price Conditions

1.1 Price Validity

Lump Sum Prices quoted by the CONTRACTOR and its SUPPLIERS are valid for 30-days. Price adjustments to be revised and adjusted if the Bidding Process is extended by the CLIENT beyond the Bid Validity.

1.2 Price Escalation

CONTRACTOR follows the World Bank's CONTRACT PRICE ADJUSTMENTS WORKBOOK (https://pubdocs.worldbank.org/en/424801537214900629/Contract-Price-Adjustment-Computation-Workbook.xlsm), where the indices in the base dates (0) are set on the day of the first milestone (advance payment) is received and cleared, herein defined as the "start date". Formula and Legend below:

Price Adjustment Formulas

Determination of Multiplying Factor for period n (for Local and Foreign Currency) (P_n)

$$P_n = a + b\left(\frac{L_n}{L_o}\right) + c\left(\frac{E_n}{E_o}\right) + d\left(\frac{M_n}{M_o}\right) + \ldots$$

Determination of multiplying factor when currency of Indices is different from Currency of Payment for period n (P_n)

$$P_n = a + b\left(\frac{L_n}{L_o}\right) x\left(\frac{Z_{lo}}{Z_{ln}}\right) + c\left(\frac{E_n}{E_o}\right) x\left(\frac{Z_{eo}}{Z_{en}}\right) + d\left(\frac{M_n}{M_o}\right) x\left(\frac{Z_{mo}}{Z_{mn}}\right) + \ldots$$

Determination of Adjustment Amount for period n (Pa)

$$P_a = P_1(P_n - 1)$$

Determination of Adjustment amount for period n

$$P_m = P_n + P_a$$

Sum of Indices

$$a + b + c + d = 1$$

Legend	
P_n	Adjustment multiplier
P_1	Value of Work for adjustment, carried out in the period
P_a	Adjustment amount for period
P_m	Value of Work after adjustment for period (Payable)
a	fixed element
b, c, d, ...	Coefficients
L_o, E_o, M_o, ...	Indices on the Base Date
L_n, E_n, M_n, ...	Current Indices applicable for the adjustment
Z_o, Z_{lo}, Z_{eo}, Z_{mo}, ...	number of units of currency of the origin of the indices corresponding to one unit of payment currency on the Base date,
Z_n, Z_{ln}, Z_{en}, Z_{mn},...	number of units of currency of the origin of the indices corresponding to one unit of payment currency on the date of adjustment,

Both the Indices and Weighting Factors to be recorded in the Contract Signed between CLIENT and CONTRACTOR.

1.3 Taxes

As defined in Schedule No. 5, Price and other charges payable by Employer in connection with the Work to be performed by Contractor are exclusive of Taxes and Duties (as those terms are defined below). The Taxes and Duties shown as a separate line item on this Schedule 5, submitted by Applicant, are in addition to the Price and, if applicable shall be for Employer's account, and shall be paid or reimbursed by Employer. The term "Taxes and Duties" shall mean all fees or charges imposed, assessed or levied by any governmental department, agency, or taxing authority (a "Taxing Authority") and shall include property taxes, sales and use taxes, value added taxes, withholding taxes, goods and services taxes and excise taxes, and/or other charges of a similar nature, customs or other duties, customs agent fees and other such charges and fees. Applicant with the support of EMPLOYER intends to request tax exemptions and benefits for the Project.

1.4 Plant start-up Conditions

First Fill of the NGL and Power Plant Facility is at a surcharge to the EMPLOYER. Diesel Fuel, Lubricants, Propane, or any other consumable required to start and operate the plant during commissioning and testing, as well as filling up the fuel storage as required by the EMPLOYER is at the cost of the EMPLOYER and will be invoiced separately as a change order service.