

DETAILED COST ESTIMATES

Project : Emergency Rehabilitation of DFA OCA-ASEANA's Sewage Treatment Plant (STP) with One-Year Operation and Maintenance

Location : Aseana Business Park, Bradco Avenue, corner Diosdado Macapagal Blvd, Parañaque, 1714 Metro Manila

UNIT COST DERIVATION			
Item of Work :	I, GENERAL REQUIREMENTS	Date :	
Item No. :	L1	Total Cost :	0.00
	Mobilization/ Demobilization	Assumed Qty :	1 Lot
Work Description :	Mobilization/ Demobilization		

DESCRIPTION / COMPUTATION		Unit	Quantity	Unit Cost	Amount
A.	MATERIAL COST				
	Mobilization/ Demobilization	1	Lot		0
	This component includes but not limited to the following:				
	a. Personal Protective Equipment (PPEs)				
	b. personnel identification paraphernalia, safety orientation activities and safety signages, among others.				
	c. Vehicle charges, delivery of equipment, transportation of manpower and materials.				
	d. Temporary facilities, office apartment/fabrication site rentals, water and electricity charges with submeter.				
	e. Staking, clearing of site perimeter prior to start of work.				
	f. Site area preparation, including clean-up of the STP area, and STP desludging and hauling, among others.				
A	Sub-Total for A			P	0
B.	LABOR	No. of Person	No. of Hours	Hourly Rate	Amount
	Foreman				0.00
	Skilled				0.00
	Laborer				0.00
	Sub-Total for B				0.00
C.	EQUIPMENT	Quantity	No. of Hours	Hourly Rate	Amount
					0
	Sub-Total for C				0
D.	Total (B+C)				0.00
E.	Output per Hour				0.00
F.	ESTIMATED DIRECT COST (D+A)			P	0.00
G.	Indirect Cost / Mark-up			P	0.00
	Overhead, Contingency & Misc. (OCM),	6%	of EDC	0	
	Contractor's Profit,	8%	of EDC	0	
H.	Sub-Total			0	
I.	Value Added Tax (VAT)	5%	of F & G	0.00	0.00
J.	Total Indirect Cost (G+I)				0.00
K.	TOTAL COST (F+J)				0.00
L.	UNIT COST				0.00

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UNIT COST DERIVATION				
Item of Work :		I, GENERAL REQUIREMENTS		
Item No.	I.2	Temporary Facilities		
Work Description :		Temporary Facilities		
			Date :	
			Total Cost :	0.00
			Assumed Qty :	1 Lot

DESCRIPTION / COMPUTATION					Unit	Quantity	Unit Cost	Amount
A. MATERIAL COST								
	Temporary Facilities			1	Lot			0
A	Sub-Total for A							0
B. LABOR								
	Foreman							0.00
	Skilled							0.00
	Laborer							0.00
	Sub-Total for B							0.00
C. EQUIPMENT								
								0
	Sub-Total for C							0
D.	Total (B+C)							0.00
E.	Output per Hour							0.00
F.	ESTIMATED DIRECT COST (D+A)						P	0.00
G.	Indirect Cost / Mark-up						P	0.00
	Overhead, Contingency & Misc. (OCM),	6%		of EDC			0	
	Contractor's Profit,	8%		of EDC			0	
H.	Sub-Total							0
I.	Value Added Tax (VAT)	5%		of F & G		0.00		0.00
J.	Total Indirect Cost (G+I)							0.00
K.	TOTAL COST (F+J)							0.00
L.	UNIT COST							0.00

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UNIT COST DERIVATION			
		Date :	
Item of Work :	I, GENERAL REQUIREMENTS		Total Cost : 0.00
Item No. : I.3	Temporary Utilities (Water and Electricity)		Assumed Qty : 1 Lot
Work Description :	Temporary Utilities (Water and Electricity)		

DESCRIPTION / COMPUTATION		Unit	Quantity	Unit Cost	Amount
A. MATERIAL COST					
	Temporary Utilities (Water and Electricity)	120	Days		0
A	Sub-Total for A			P	0
B. LABOR					
		No. of Person	No. of Hours	Hourly Rate	Amount
	Foreman				0.00
	Skilled				0.00
	Laborer				0.00
	Sub-Total for B				0.00
C. EQUIPMENT					
		Quantity	No. of Hours	Hourly Rate	Amount
					0
	Sub-Total for C				0
D.	Total (B+C)				0.00
E.	Output per Hour				0.00
F.	ESTIMATED DIRECT COST (D+A)			P	0.00
G.	Indirect Cost / Mark-up			P	0.00
	Overhead, Contingency & Misc. (OCM),	6%	of EDC	0	
	Contractor's Profit,	8%	of EDC	0	
H.	Sub-Total			0	
I.	Value Added Tax (VAT)	5%	of F & G	0.00	0.00
J.	Total Indirect Cost (G+I)				0.00
K.	TOTAL COST (F+J)				0.00
L.	UNIT COST				0.00

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UNIT COST DERIVATION						
			Date :			
Item of Work :		I, GENERAL REQUIREMENTS		Total Cost :	0.00	
Item No. :	1.4	Temporary Utilities (Water and Electricity)		Assumed Qty :	1 Lot	
Work Description :		Temporary Utilities (Water and Electricity)				
DESCRIPTION / COMPUTATION			Unit	Quantity	Unit Cost	Amount
A. MATERIAL COST						
		Bonds, Sureties & Insurances	1	Lot		0
A		Sub-Total for A			P	0
B. LABOR						
			No. of Person	No. of Hours	Hourly Rate	Amount
		Foreman				0.00
		Skilled				0.00
		Laborer				0.00
		Sub-Total for B				0.00
C. EQUIPMENT						
			Quantity	No. of Hours	Hourly Rate	Amount
						0
		Sub-Total for C				0
D. Total (B+C)						
						0.00
E. Output per Hour						
						0.00
F. ESTIMATED DIRECT COST (D+A)						
					P	0.00
G. Indirect Cost / Mark-up						
		Overhead, Contingency & Misc. (OCM),	6%	of EDC		0
		Contractor's Profit,	8%	of EDC		0
H. Sub-Total						
						0
I. Value Added Tax (VAT)						
			5%	of F & G	0.00	0.00
J. Total Indirect Cost (G+I)						
						0.00
K. TOTAL COST (F+J)						
						0.00
L. UNIT COST						
						0.00

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UNIT COST DERIVATION			
			Date : _____
Item of Work :	I, GENERAL REQUIREMENTS		
Item No. : 1.5	Lifting Equipment	Total Cost : 0.00	
Work Description :	Lifting Equipment	Assumed Qty : 1 Lot	

	DESCRIPTION / COMPUTATION	Unit	Quantity	Unit Cost	Amount
A.	MATERIAL COST				
	Lifting Equipment	1	Lot		0
A	Sub-Total for A			P	0
B.	LABOR	No. of Person	No. of Hours	Hourly Rate	Amount
	Foreman				0.00
	Skilled				0.00
	Laborer				0.00
	Sub-Total for B				0.00
C.	EQUIPMENT	Quantity	No. of Hours	Hourly Rate	Amount
					0
	Sub-Total for C				0
D.	Total (B+C)				0.00
E.	Output per Hour				0.00
F.	ESTIMATED DIRECT COST (D+A)			P	0.00
G.	Indirect Cost / Mark-up			P	0.00
	Overhead, Contingency & Misc. (OCM),	6%	of EDC	0	
	Contractor's Profit,	8%	of EDC	0	
H.	Sub-Total			0	
I.	Value Added Tax (VAT)	5%	of F & G	0.00	0.00
J.	Total Indirect Cost (G+I)				0.00
K.	TOTAL COST (F+J)				0.00
L.	UNIT COST				0.00

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UNIT COST DERIVATION			
Item of Work :		I, GENERAL REQUIREMENTS	Date :
Item No.	1.6	Design Services: Preparation of Construction and As-Built Drawings (Mechanical and Piping, Electrical, Schedule of Load, Equipment Specifications)	Total Cost : 0.00
Work Description :			Assumed Qty : 1 Lot
		Design Services: Preparation of Construction and As-Built Drawings (Mechanical and Piping, Electrical, Schedule of Load, Equipment Specifications)	

DESCRIPTION / COMPUTATION		Unit	Quantity	Unit Cost	Amount
A. MATERIAL COST					
	Design Services: Preparation of Construction and As-Built Drawings (Mechanical and Piping, Electrical, Schedule of Load, Equipment Specifications)	1	Lot		0
A Sub-Total for A P 0					
B. LABOR					
	Foreman				0.00
	Skilled				0.00
	Laborer				0.00
B Sub-Total for B 0.00					
C. EQUIPMENT					
					0
C Sub-Total for C 0					
D. Total (B+C) 0.00					
E. Output per Hour 0.00					
F. ESTIMATED DIRECT COST (D+A) P 0.00					
G. Indirect Cost / Mark-up P 0.00					
	Overhead, Contingency & Misc. (OCM),	6%	of EDC	0	
	Contractor's Profit,	8%	of EDC	0	
H. Sub-Total 0					
I. Value Added Tax (VAT) 5% of F & G 0.00					
J. Total Indirect Cost (G+I) 0.00					
K. TOTAL COST (F+J) 0.00					
L. UNIT COST 0.00					

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UNIT COST DERIVATION			
			Date :
Item of Work :	I, GENERAL REQUIREMENTS		Total Cost : 0.00
Item No. : 1.7	Temporary Safety, First Aid Facilities & Equipment		Assumed Qty : 1 Lot
Work Description :	Temporary Safety, First Aid Facilities & Equipment		

DESCRIPTION / COMPUTATION		Unit	Quantity	Unit Cost	Amount
A.	MATERIAL COST				
	Temporary Safety, First Aid Facilities & Equipment	1	Lot		0
A	Sub-Total for A			P	0
B.	LABOR	No. of Person	No. of Hours	Hourly Rate	Amount
	Foreman				0.00
	Skilled				0.00
	Laborer				0.00
	Sub-Total for B				0.00
C.	EQUIPMENT	Quantity	No. of Hours	Hourly Rate	Amount
					0
	Sub-Total for C				0
D.	Total (B+C)				0.00
E.	Output per Hour				0.00
F.	ESTIMATED DIRECT COST (D+A)			P	0.00
G.	Indirect Cost / Mark-up			P	0.00
	Overhead, Contingency & Misc. (OCM),	6%	of EDC	0	
	Contractor's Profit,	8%	of EDC	0	
H.	Sub-Total				0
I.	Value Added Tax (VAT)	5%	of F & G	0.00	0.00
J.	Total Indirect Cost (G+I)				0.00
K.	TOTAL COST (F+J)				0.00
L.	UNIT COST				0.00

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UNIT COST DERIVATION					
			Date :		
Item of Work :		II. Supply the materials, manpower and equipment for proper execution of the following works:		Total Cost : 0.00	
Item No.	II.2	Mechanical Works		Assumed Qty : 1 Lot	
Work Description :		Mechanical Works			
DESCRIPTION / COMPUTATION					
		Unit	Quantity	Unit Cost	Amount
A.	MATERIAL COST				
	Mechanical Works	1	Lot		0
	1. Air Rotary Blower (N+1)				
	2. Coarse Bubble Diffuser				
	3. Static Airlift Pump (N+1)				
	4. Chlorinator				
	5. non-clog submersible pump				
	Note: The Contractor shall breakdown here the list of works and materials needed for mechanical works.				
A	Sub-Total for A				0
B.	LABOR				
		No. of Person	No. of Hours	Hourly Rate	Amount
	Foreman				0.00
	Skilled				0.00
	Laborer				0.00
	Sub-Total for B				0.00
C.	EQUIPMENT				
		Quantity	No. of Hours	Hourly Rate	Amount
					0
	Sub-Total for C				0
D.	Total (B+C)				0.00
E.	Output per Hour				0.00
F.	ESTIMATED DIRECT COST (D+A)				0.00
G.	Indirect Cost / Mark-up				0.00
	Overhead, Contingency & Misc. (OCM),	6%	of EDC	0	
	Contractor's Profit,	8%	of EDC	0	
H.	Sub-Total				0
I.	Value Added Tax (VAT)	5%	of F & G	0.00	0.00
J.	Total Indirect Cost (G+I)				0.00
K.	TOTAL COST (F+J)				0.00
L.	UNIT COST				0.00

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UNIT COST DERIVATION			
		Date :	
Item of Work :	II. Supply the materials, manpower and equipment for proper execution of the following works:		Total Cost : 0.00
Item No. :	II.3	Electrical and Instrumentation Works	Assumed Qty : 1 Lot
Work Description :	Electrical and Instrumentation Works		

DESCRIPTION / COMPUTATION	Unit	Quantity	Unit Cost	Amount
A. MATERIAL COST				
Electrical and Instrumentation Works	1	Lot		0
These include works on the electrical control system such as electrical cabling and wiring, conduiting works, Motor Control Center, Programmable Logic Controller or PLC, liquid level control, and Enclosed Circuit Breaker (ECB).				
Note: The Contractor shall breakdown here the list of works and materials needed for electrical and instrumentation works.				
A	Sub-Total for A			P 0
B. LABOR	No. of Person	No. of Hours	Hourly Rate	Amount
Foreman				0.00
Skilled				0.00
Laborer				0.00
	Sub-Total for B			0.00
C. EQUIPMENT	Quantity	No. of Hours	Hourly Rate	Amount
				0
	Sub-Total for C			0
D. Total (B+C)				0.00
E. Output per Hour				0.00
F. ESTIMATED DIRECT COST (D+A)				P 0.00
G. Indirect Cost / Mark-up				P 0.00
Overhead, Contingency & Misc. (OCM),	6%	of EDC	0	
Contractor's Profit,	8%	of EDC	0	
H. Sub-Total				0
I. Value Added Tax (VAT)	5%	of F & G	0.00	0.00
J. Total Indirect Cost (G+I)				0.00
K. TOTAL COST (F+J)				0.00
L. UNIT COST				0.00

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UNIT COST DERIVATION						
				Date :		
Item of Work :		II. Supply the materials, manpower and equipment for proper execution of the following works:		Total Cost :	0.00	
Item No.	II.4	Sanitary Works		Assumed Qty :	1 Lot	
Work Description :		Sanitary Works				
DESCRIPTION / COMPUTATION						
		Unit	Quantity	Unit Cost	Amount	
A. MATERIAL COST						
Sanitary Works		1	Lot		0	
Under this component, include the supply and installation of pipes, fittings, valves, pipe hanger and supports and appurtenances required for the workable piping system of the sewage treatment plant.						
Note: The Contractor shall breakdown here the list of works and materials needed for sanitary works.						
A		Sub-Total for A			P	0
B. LABOR						
		No. of Person	No. of Hours	Hourly Rate	Amount	
Foreman					0.00	
Skilled					0.00	
Laborer					0.00	
		Sub-Total for B			0.00	
C. EQUIPMENT						
		Quantity	No. of Hours	Hourly Rate	Amount	
					0	
		Sub-Total for C			0	
D. Total (B+C)					0.00	
E. Output per Hour					0.00	
F. ESTIMATED DIRECT COST (D+A)				P	0.00	
G. Indirect Cost / Mark-up				P	0.00	
Overhead, Contingency & Misc. (OCM),		6%	of EDC	0		
Contractor's Profit,		8%	of EDC	0		
H. Sub-Total				0		
I. Value Added Tax (VAT)		5%	of F & G	0.00	0.00	
J. Total Indirect Cost (G+I)					0.00	
K. TOTAL COST (F+J)					0.00	
L. UNIT COST					0.00	

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UNIT COST DERIVATION					
		Date :			
Item of Work :		Total Cost : 0.00			
Item No.	II.5	Start-up, Commissioning and Performance Testing		Assumed Qty : 1 Lot	
Work Description :		Start-up, Commissioning and Performance Testing			
DESCRIPTION / COMPUTATION		Unit	Quantity	Unit Cost	Amount
A.	MATERIAL COST				
	Start-up, Commissioning and Performance Testing	1	Lot		0
	This includes supervision of the initial Performance Testing and Monitoring of the STP. Equipment and facilities are tested and defects or malfunctions are noted and corrected to ensure efficient performance of the STP. Commissioning includes laboratory testing of effluent and application and securing of discharge permit for the STP prior to turnover of the project.				
	Note: The Contractor shall breakdown here the list of works and materials needed for sanitary works.				
A	Sub-Total for A			P	0
B.	LABOR	No. of Person	No. of Hours	Hourly Rate	Amount
	Foreman				0.00
	Skilled				0.00
	Laborer				0.00
	Sub-Total for B				0.00
C.	EQUIPMENT	Quantity	No. of Hours	Hourly Rate	Amount
					0
	Sub-Total for C				0
D.	Total (B+C)				0.00
E.	Output per Hour				0.00
F.	ESTIMATED DIRECT COST (D+A)			P	0.00
G.	Indirect Cost / Mark-up			P	0.00
	Overhead, Contingency & Misc. (OCM),	6%	of EDC	0	
	Contractor's Profit,	8%	of EDC	0	
H.	Sub-Total			0	
I.	Value Added Tax (VAT)	5%	of F & G	0.00	0.00
J.	Total Indirect Cost (G+I)				0.00
K.	TOTAL COST (F+J)				0.00
L.	UNIT COST				0.00

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UNIT COST DERIVATION			
		Date :	
Item of Work :		Total Cost :	
		0.00	
Item No.	III	Operation and Maintenance	
Work Description :		Assumed Qty :	
		1 Lot	
		Operation and Maintenance esting	

DESCRIPTION / COMPUTATION		Unit	Quantity	Unit Cost	Amount
A. MATERIAL COST					
Operation and Maintenance					0
a. Conduct monthly Laboratory Analysis for Effluent under DAO-08-2016 and DAO-19-2021 parameters for Class SB.		12	Months		
b. Monthly Supply of Chemicals such as but not limited to the following:		12	Months		
*Chlorine Granules					
*Chlorine Test Kits					
*pH Test Kits					
*Cleaning Supplies					
c. Preventive Maintenance, inspection and Minor Repairs.		12	Months		
Sub-Total for A					0
B. LABOR					
		No. of Person	No. of Hours	Hourly Rate	Amount
Foreman					0.00
Skilled					0.00
Laborer					0.00
Sub-Total for B					0.00
C. EQUIPMENT					
		Quantity	No. of Hours	Hourly Rate	Amount
					0
Sub-Total for C					0
D. Total (B+C)					0.00
E. Output per Hour					0.00
F. ESTIMATED DIRECT COST (D+A)					0.00
G. Indirect Cost / Mark-up					0.00
Overhead, Contingency & Misc. (OCM),		6%	of EDC	0	
Contractor's Profit,		8%	of EDC	0	
Sub-Total					0
Value Added Tax (VAT)		5%	of F & G	0.00	0.00
Total Indirect Cost (G+I)					0.00
TOTAL COST (F+J)					0.00
UNIT COST					0.00